

FRENDX

T H E

SWBC JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

P.O. BOX 989, ALTOONA, PA 16603

APRIL 1972

NASWA Executive Editor Bill Eddings remains ill, and though able to handle the HQ functions involved with processing renewals and new members, is unable to resume the HQ section, which being done here in Charleston. All renewals should be sent direct to NASWA HQ, P.O. Box 989, Altoona, PA 16603.

NASWA BoD announces change in dues structure. In view of the change to offset printing, and the virtual elimination of the difference in postage costs for Third Class and First Class mailing of the bulletins printed this way, the BoD has set one membership fee to apply to all members. Effective immediately, NASWA dues are set at \$10.00, and all memberships will be based on receipt of FRIEND via First Class Mail. Of course, all current "Third Class" memberships will continue to be honored until expiration, at which time renewal must be made at the \$10 First Class rate.

NEW MEMBERS, Welcome to all:

John Clements, Newhall, California
via friend Don Erickson
Andrew Chilkewitz, Westland, Michigan
via Elementary Electronics
James Gates, Columbus, Georgia
via Communications World
Art Palmer, San Francisco, California
via Communications World
Del Ford, Scarborough, Ontario
via PE Communications Handbook
Benjamin Celucci, Rio Piedras, Puerto Rico
via member Glenn Hauser
Donald Burdett, New Castle, Pennsylvania
via PE Communications Handbook
Dave Coursey, Dallas, Texas
via member Walt Mitchell
Ray Rinke, Minneapolis, Minnesota
Elementary Electronics
Mike Tenegal, Chicago, Illinois
via PE Communications Handbook
Jerold Bell, Teaneck, New Jersey
via Communications World
Herb Baer, Jr., Hyattsville, Maryland
via PE Communications Handbook
Bob Riter, Huntington, West Virginia
via Communications World
Fred Stone, Northford, Connecticut
via Communications World
James Boyd, Brooklyn, New York
via Communications World
Fred Heutte, Jr., Washington, D.C.
via member Ed Shaw
Shinichi Shirashi, Niigata, Japan
via Japan SW Club
Robert Duddy, Rushville, Indiana
via WRTH
Eruce Cisanelli, Rocky Hill, Connecticut
via WRTH
John Benoit, Pittsburgh, Pennsylvania
via Elementary Electronics
Karl Schubert, Timonium, Maryland
via Radio RSA
Bill Vogt, Nashville, Tennessee
via NASWA HDQ
J. C. Brownlee, Jr., Laurens, S.C.
via Communications World

New Members(continued)

Scott Eisenmuth, Johnstown, Pennsylvania
via Communications World
Jack Finsel, Akron, Ohio
via Communications World
Scott Reeves, Laurel, Maryland
via Communications World
Danny Petr, Toronto, Ontario
via member Dr. Richard E. Wood

RENEWALS

2nd year - Ed Ricchezza, Fred Klump, Jr., Bill Bryant, Gary Toncre, Stanley Prince, Angelo Gero, Bob Seymour, Leon Segal, David Schmidt, Vic Argabright, Jon Williams, Ken Schurr, Jack Callaway.
3rd year - Marvin Robbins, Joe Torok, Leon Segal, Bill Coleman.
4th year - Terry Adams, Jan Tuner, Dick Heggs.
5th year - Alan Roth, F. Earle Hall, Bob Peritz, Andy Pappas.
7th year - Bert Adams

Those not renewing by the 15th of the month will be listed next month.

HELPING HAND SERVICE For sale; Halli-crafters CR-44A portable, brand new. Also Heathkit GR-64 completely assembled. Write Don Lechthaler, 737 Milford Mill Road, Baltimore, MD. 21208....

For Sale: Moseley SWV-7 SW Vertical Antenna, brand new, unassembled, balun not required. Write Mark A. Daba, 148 Loomis Street, Burlington, Vt. 05401

via phone, Fred Heutte advises of a friend wishing to sell an assembled Heathkit SB-310, with SSB filter(I don't know which one-DF), and 13 & 15 meter conversion, plus an "SWL Library" consisting of several books from Gilfer. The receiver is in excellent condition and little used. Write Steve Martin, 12115 Northwood Dr., Upper Marlboro, MD 20870. Price: \$270.

Carrera 53
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Emisora Atlántico

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Onda Larga
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Señor
Dan Ferguson
P. O. Box 2413
Coral Gables, Florida 33124
U. S. A.

Apreciado señor y amigo:

Con mucho gusto damos respuesta a su atenta carta fechada en esa localidad de Coral Gables (Florida), el día 22 de Septiembre del presente año, adjunto su magnífico reportar de sintonía muy valioso para nosotros.

La estampa incluyendo un banderín de nuestra emisora como un recuerdo amable de nuestra amistad, esperamos sea de su agrado y continúe Ud. estimulándonos con su amable sintonía.

Sin otro particular por el momento, nos es grato suscribirnos como sus atentos servidores y amigos.

**EMISORA
ATLANTICO**



THE LOUDENBOOMER REPORT

"When constabulary duty's to be done, to be done, a policeman's lot is not a happy one"

I was singing, half muttering under my breath actually, my favorite Gilbert and Sullivan line as I sat in my study opening the mail.

As you know, a few months back, during one of the regular editorial crises in the International World Wide Continental DX Association, I'd volunteered to take on the job of loggings editor. And after a couple of months in the saddle, I was beginning to feel my lot was not too different from Gilbert's cop!

"Dear Charlie," the first letter read. "I have some constructive criticism of last month's column. You listed Radio Borborema's frequency as 4,964.3275 kHz. Actually, I measured it as 4,964.3278 kHz. As you must know, frequency accuracy is of paramount importance to us all. How can a beginner be expected to find a station if you list incorrect frequencies? With an editor of your experience I'd expect more..."

I quit reading it and shuffled the letter to a stack on my right. I grabbed a second envelope and tore it open.

"OM Charlie, not a complaint, mind you, but some helpful, friendly, constructive criticism. I couldn't help noting the glaring errors on page five of the September bulletin. In the third item on the page, I found you spelled "Venezuela" as "Venzeula," I find this mistake inexplicable in an editor of your ability. Can a newcomer to the hobby be expected to be accurate when faced with such confusing bulletin information?"

"Even more distressing is that you neglected to include, in various words on the page, six stress marks, three tildes, an umlaut and an even dozen semi-colons." Reading no further, I snatched up another letter.

"Hi C.L.," it began. "Trust you'll correct another of your mistakes, appearing on line 26, page seven of the August column. You quoted me as saying 'Tristan Radio logged with good signals with typical Tristanian music on 7/14 from 2037 $\frac{1}{4}$ to 2038GMT.'" If you'll only check my original report you'll find that what I really reported was as follows: 'Tristan Radio logged with good signals, with typical Tristanian music, on July 14, from 2037 $\frac{1}{2}$ to 2038GMT.'" Accuracy is important you know. This is intended, of course, as constructive criticism, not a complaint, but why should my reputation suffer because of your carelessness?"

And the next letter didn't do much to improve my morale either.

"Dear Mr. Loudenboomer: I'm always anxious to offer friendly criticism to an editor, particularly one who seems to need it as much as you."

"I've just finished a study of your first four columns, June through October. I'm struck by the obvious fact that you are playing favorites. In one glaring example, I find that you used only 67 items which I sent you over the past months, however you ran 71 loggings by that murd Billy Broomeister, who lives in the same town I do. Like how come you didn't use my tip on VOA-Greenville on about 2,659kHz? (signed) Joseph "Big J" Fright, Raleigh, N.C."

I'd almost reached the bottom of the stack. Only one letter left unopened. I tore open the flap and read the short message.

"Deer Sur, I just want too make some helpfull freindly criticizum of your writing in the buliten. You are dum and stupedand you shud quit befor you reck the hole buletin. Freindly yours, Arnold."

As I sat, in my deep depression, pondering the stack of constructive criticism I'd received in the day's mail, something suddenly flickered through my brain. It was a snatch of melody, another Gilbert and Sullivan tune from yet another operatta. A wicked little smile crossed my lips as I broke into full-throated song.

"I've got a little list, I've got a little list. Not one of them'd be missed..Not one of them'd be missed!"

73, Charlie...

Short wave - Center !

EDITOR: "Ralphus" Perry, 301 E. Chalmers St., Champaign, Illinois --- 61820
 =====

SCOOP!!! Exclusive first release to a North American SW hobby club!!!

THE BARLOW-WADLEY XCR-30 RECEIVER

by Edward C. Shaw

A couple of months back, many of us got the first indication that a new receiver was soon to be available --- Leo Van der Walt's column on the back page of RSA's monthly schedule featured preliminary information on the XCR-30, a crystal-controlled, dual conversion, direct frequency readout portable rx manufactured in South Africa. The following information was obtained as a result of a letter of inquiry to the inventor Mr. C.S. Barlow.

This receiver was designed specifically for the LISTENER who requires a shortwave receiver with high calibration and resetting accuracy, with excellent sensitivity, selectivity, and image rejection characteristics, together w/SSB---all in portable form, without the frills and at low cost

To achieve these objectives, many luxurious and superfluous features were omitted without detracting at all from the receiver's specific purpose. The rx is general coverage (500 kHz to 30 MHz) and incorporates a whip antenna. All-metal construction makes a ferrite core antenna impractical. There are no dial lights to drain battery power, yet the dial design permits maximum visibility even under poor lighting condx. The XCR-30 operates on 6 "D-size" batteries (9V) and has no built-in provision to facilitate use of an 115-V wall socket; an external transformer must be used for that. The rx will actually work from a range of 6V-12V, so it may be used thru an automobile's cigarette lighter. These limitations are just some of the ways the cost has been kept down to a minimum. Pin-jacks allow the use of external antenna and grounds, if so desired---altho these would only be needed in cases of heavy indoor interference.

Despite the involved design and complexity in alignment and adjustment in the manufacturing process, routine repair and maintenance are well within the scope of an efficient repair establishment, and components are easily available. It should be noted that since a 1-mHz xtal oscillator is utilized to control stability of the rx, a low level "break-through" will be noted at the 0 & 100 settings of the kHz dial ---this serves as a deliberate confirmation for dial accuracy and also acts as a claibrator should the rx ever need realignment. The signal is quite suppressed, however, and permits easy reception of WWV and other such time stations on such frequencies.

As of the moment, there is still no distributor for the model in the U.S.A...Unit price, F.O.B. from Durban, South Africa, is \$157.50 at the present international rates of exchange. Air freight will entail another \$31.50. The address is: Barlow Manufacturing Co. Ltd., P.O. Box 23, New Germany, Natal, South Africa... AND if, after persons have written for further info, they wish to pool their resources, ten buyers may form one large order at great savings, reducing unit price to \$120, and sharing freight charges. THIS IS NOT AN OFFER SPONSORED BY NASWA!!! We advise all DXers to exercise caution--look before you leap! While the XCR-30 sounds like a "dream rx", only time will tell if Mr. Barlow's claims are to be substantiated.

SHORTWAVE

SHORTS.....News from the World of International Broadcasting.....

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Radio Uganda Expansion

Uganda is actively investigating the possibilities of setting up external broadcasting facilities. According to informed sources, Mr. Wm. Naburri, the Minister for Information and broadcasting, was in Paris and London primarily to look into the technicalities and finance involved in this major undertaking.

Marconi said the Minister visited their Chelmsford works this week but declined to say whether this was purely a facilities tour or whether there was a business discussion. Marconi knows the Uganda position, having supplied equipment over many years, most recently 4 xmters for the internal service in the regions. An external services xmttr would set Uganda back at least 250,000 pounds, when considering the need for aerials and more studios. General Amin has said that he is anxious to give Uganda a stronger voice outside its own borders and has spoken of the need for external broadcasting. ---TCB Bulletin via R. Anderson

Walkout at the CBC

Ottawa, Jan. 22 (Reuters): Technicians of the Canadian Broadcasting Corp. walked off their jobs in 5 cities today. The action by members of the Nat. Assoc. of Broadcast Employees and Technicians shut down live radio and TV programs by the publicly-owned CBC from Vancouver, Winnipeg, Toronto, Montreal, and Charlottetown. The 2,170 technicians termed the walkout a "study session", to consider a full strike against the CBC. ---NY Times via George Schnabel.

Papua looks to Independence.

A Parliament is scheduled to meet in 6/72 to consider bills aiming at self-gov't and finally independence from Australia. ---Chi Sun-Times. (No doubt another new chapter in SWBCING to watch in the future: drastically revamped pmng, retention of ABC xmters, etc.etc.etc. from an independent Papua.)

VS18---Grand Turk Island (CZANWI)

At presstime, your editor has received word from VS18 manager that an exclusive, in-depth article w/pix will be forthcoming for the SWC. Watch for it! However, in the same communique a cryptic reference was made to the fact that: "...We shall shortly be handing over to a local broadcasting authority so the station VS18 will not continue in its present form for very much longer. ---D.R. Mattocks"....The specific meaning of this and its impact is yet to be made clear.

Radio Nederland--25th Anniv.

Although this item is sure to be redundant for most SWC readers, RN will celebrate its 25th anniversary with a Jubilee Program on April 15, 1972. The fascinating rendition of the RN story contained within their current program sked is recommended reading for all SWC'ers. I take this opportunity to congratulate one of the all-time greats in SWBCING: and continued success, gentlemen!

BBC Pips Become Peeps

Every hour on the hour since 1946, BBC radio has gone "pip-pip-pip-pip". Starting from New Years Day, the world's most famous time signal became "poo-pip-pip-pip-peeeep!". Announcing the change, the Royal Greenwich Obsv. at Herstmonceux, which provides the time sig, said it was adding the peep--a lengthened pip--in the interests of better timekeeping. Under an int. agreement from Jan. 1, '72, the radio time signal will be based upon the international atomic time scale. ---Ft. Lauderdale News, via Gary Toncre

Bangladesh Radio

According to a VOA nxcast on March 2, '72, Radio Bangladesh will soon (already has??) receive new equipment from the USSR. info via Mark Welsh.

THE SAD SAGA OF RADIO TELEFIS EIREANN'S SHORT-LIVED SHORTWAVE

adapted by ye olde editor Ralphus Perry

When questioned as to whether Ireland maintains a shortwave outlet, the average SWL/DXer might make reference to the island's aeradio terminal. To my surprise, I recently learned that Radio Telefis Eireann still has the 100 kw shortwave xmtr in Althone which has been doomed to the realm of spiderwebs since circa 1950A.....Read on:

"Ireland was however thinking of embarking upon a bigger venture: shortwave broadcasting to distant countries. As long ago as 1932, the Advisory Committee had recommended that a shortwave service be established to keep Irishmen in far-off places in touch with affairs at home---and the answer had been that the cost would be too high. By 1938 however the tide of radio propaganda was rising high. The Axis powers had begun it, and Britain was following suit....In 1938 Oscar Traynor announced that an experimental shortwave was being installed at Athlone. The Voice of Ireland should be heard, too.

"The transmitter was installed and in March 1939, it began broadcasting the whole of Radio Eireann's daily programme, except for sponsored programs. But no satisfactory wavelength had been secured, the transmitter was of only 1.5 kw's power, and with the increasing use by the larger countries of multiple wavelengths and higher-powered transmitters, it was becoming steadily harder for a single small voice to be heard. Then came the war, and soon the end of Ireland's venture for a while.....

"The attempt to establish direct communication with the USA by shortwave radio from Athlone had been partly intended to remedy (the lack of direct communications links between Ireland and the USA, except via Britain) but the 1.5 kw transmitter that had been installed had been ineffectual. A last attempt was made during the three months from December 1940 to March 1941, when the shortwave transmitter went on the air for an additional half-hour in between 4:00 AM and 4:30 AM in Ireland---a good listening hour in America, allowing for the time difference between the two countries, though a bad time so far as reception was concerned (QRM-wise...rwp). When it too failed, shortwave transmissions from Athlone were reduced to daily re-lays of the 6:40 and 10:10 news---hardly the brightest jewels in R.Eireann's crown. Before this reduction had been made, Mr. de Valera had called in the Emergency Research Bureau which he had established, and asked it to investigate ways of increasing the power of the transmitter from 1.5 to 20 kw's...after working from February to September they had to report that they had failed." (The little used shortwave transmitter for the most part lay fallow after that, except for being utilized for a special V-E Day broadcast in 1945. And then, in 1947, the idea of SWBCing once again germinated.----rwp)

"Introducing his broadcasting estimate in the Dail on April 30, '46, Paddy Little announced that the amount was up by more than 112,000 pounds and that total expenditures for the year would exceed revenue by more than 119,000 pounds. The reason for this outburst of expenditure was the high-power shortwave station which he had hoped might be able to open by the end of 1947. This development had been under consideration for a long time....but it was not until 1946 that a contract had been signed with the Marconi Company and serious preparations began...

It was a tremendous enterprise, compared with the scale on which Irish broadcasting had been run in the past. It involved not only a new station and arrays of aerials but also new hours of broadcasting and a new outlook on programmes; without any guarantee of success.

"From the practical standpoint and also technical, there were(next page please!)

formidable difficulties in the way. First of all there was no wavelength available, any more than in the days when the low-power shortwave xmtmr had failed... A series of international conferences had failed to hammer out a scheme for allocating the shortwaves, and since the war began the larger nations had been putting batteries of transmitters to work on all possible frequencies. Ireland's single transmitter would have small chance of being heard. During the war, when I was running the BBC's shortwave service to America, I was consulted informally by a member of the Irish High Commissioner's staff in London as to the prospects of a shortwave service to America. As far as I remember, my advice was that shortwave broadcasts alone had little impact; even when London was the focus of world interest, few Americans took the trouble to tune in to London direct. The few who did might be valuable as opinion leaders, but the only way of reaching a real audience was to get your programmes rebroadcast by American stations and networks. To complicate matters, shortwave listening to distant countries was rare in countries like the USA(!!!!---rwp). All these obstacles were explained to the government, but the political motive prevailed, and plans for the shortwave station went ahead...The sums spent on broadcasting reached altitudes never before even contemplated....

"Some of the best Irish experts were in America at the first big wavelength conference since the war, trying to get a suitable shortwave allocation. New difficulties were constantly arising; there were shortages of everything: steel, electricity, cement, even timber were in short supply, both in Ireland and in England, where the transmitter and masts were being made. But all difficulties were overcome. The 100 kw transmitter was installed at Athlone, an aerial array stretching over some 40 acres was erected to carry directional broadcasts to the USA; another set of masts for broadcasts to Europe was obtained but not yet erected. By March 1948, T.J.Monahan was able to report that test transmissions should be able to begin by the end of April.

"But in February the government had changed. In May 1948, the new Minister for Finance announced in his Budget speech that for reasons of economy the government had decided to abandon the shortwave project. The decision was bitterly attacked---all made the point that when a crisis came along it was important that Ireland be able to state its case directly to the USA...but the government was obdurate. It was decided that the shortwave equipment should be sold, but enquires disclosed that the amount that could be had for it, when the cost of dismantling it had been met, would not be more than 60,000 pounds. The history of the shortwave station was not yet ended, however....

"There was still the possibility that a suitable frequency allocation could be obtained at the next international conference to be held in Mexico City in 1949. The threat to sell the station had had its effect: it had frightened some of the nations that had previously ignored Irish claims. The very real fear of one's competitors in the "cold war" receiving the Irish equipment was enough of an inducement to get countries to vote for Ireland where they had previously voted against her. But the Mexico City plan was unfortunately only a basic plan, and there were more frustrations in store. Subsequent conferences at Florence and Rapallo failed to agree on details, and no final plan emerged. Without it, a single station would have little chance against the multiple transmissions of the big countries.

"In the meantime, various schemes were being considered in Dublin for a service. One was for a half-hour's nightly broadcast to the USA, repeated so as to reach different time zones there, w/pgms from the newly-formed Irish news Agency. But once again the project petered out...It was revived once again when a Fianna Fail government took office in 1951 again, but the same difficulties presented themselves and no regular service ever began..... (next page, please!!)

"In the end, the project left the country with an unhappy legacy: a station which had originally cost 112,000 pounds, and an array of aerials stretching over a lot of other people's land, all fast becoming little more than scrap."

from Forty Years of Irish Broadcasting by Maurice Gorman published by The Talbot Press Ltd., Dublin, for Radio Telefis Eireann.

POSTSCRIPT: It has now been rumored by several sources that Ireland is once again examining the prospects of SWSing.....rwp)

THE COLLINS 51S-1 RECEIVER
by Frank Peters

The direct frequency readout Collins 51S-1 receiver utilizes 17 tubes and 28 semi-conductors, tunig from 200 kHz to 30 MHz in 29 one-mHz ranges. The 51S-1 is offered with a choice of 2.75 or 2.4 kHz bandwidth, mechanical filter for side-band reception and also an AM bandwidth of 5 kHz using a normal IF transformer. The receiver is also optionally equipped with a 6 kHz MF for the AM mode.

A preselector is necessary when tuning from 200 kHz to 2 MHz; and although no antenna tuner is furnished, the receiver compensate very well in all tuning ranges. After some correspondence with Collins, a 3.1 kHz MF was installed for AM mode reception---Collins claims that this is the best they can do.

In evaluating the performance of the 51S-1, I used as a standard the performance of what I consider the best DX-receiver on the market--the HQ 180. In my opinion, the 51S-1 comes fairly close when directly pitted against the performance of the HQ 180. While the 3.1 kHz bandwidth is still a little too wide , by using the side-bands and zero-beating, an improvement in AM reception is noted. The rejection tuning-control performs superbly!!! It works well even on weak signals, and can even be used as a noise limiter if one is plagued by power-line noises, as I am.

Except for the one drawback in the 51S-1's performance--the wide bandwidth--I feel that it compares quite favorably w/the HQ 180....and with the added luxury of direct frequency readout. I can't help thinking that if the HQ 180, while retaining the same basic circuitry--altho modernized and miniaturized--incorporated a direct frequency readout, then it too would fall in the high price range of the Collins 51S-1....Such are the economic facts of life in our country. hi.

Correction: ORF - Vienna

Ex-Editor for SWS Matthews requests that I note an error which appeared in his essay on Austrian Radio: "The December '72 edition of FRENDX contained an article dealing with the ORF. Due to a misunderstanding, one of the photos was mis-identified. ORF requests that the following correction be noted: 'The picture on page 4 of the SWS (picture #2) does not show a tropical antenna (TRO) but a verticle omni-directional cage antenna used for our European Service (0-500 km dead zone, 500-1200 km target zone).' Thanks to the Technical Department of the Austrian Radio for the correction."
-----Bill Matthews

HNBI-Athens Gets New Xntr's

"...we inform you that in March of the current year('72) two shortwave senders will be set up for operation, @ w/ a strength of 10 kw...". HNBI direct to editor-SWS

==RADIO NIBI-NIBI==

Dear listener friend:

- (x) Thanks for your report.
() No thanks for your report.

Q.S.L.

Quinton S. Leek, C.E.

AN
HONEST LOOK
AT QSLs

by Al Sizer

Let me make it clear at the outset that these are but one man's views. Nor do I insist that they are necessarily correct (altho I obviously feel they are, or I wouldn't happen to agree, that is your opposition.....)

be writing this article...hil). But if you don't have the privilage and your are invited to register your opposition.....

PROPOSITION ONE: A large percentage of QSLs are phony, involving little or no checking on the part of the stations sending them out.

PROPOSITION TWO: An unscrupulous DXer could easily obtain most QSLs without ever turning on his set, providing he has a little know-how. It is easy to determine the times and frequencies a station maintains from the WRTH and club bulletins, etc., and these will generally indicate also the languages of xmsn and also a general idea of the type of format the station runs.

PROPOSITION THREE: At least 75% of all QSLs received lack some vital bit of information which could render them as truly legitimate---i.e. date, time, frequency, verification statement, etc.

PROPOSITION FOUR: The arguments of some DXers making a verie out of a non-verie would do a Philadelphia lawyer credit! Unfortunately, none of them would stand up in a court of law. Examples: "...While they don't actually use the word confirm, they do "thank" me for my report, and surely they wouldn't be thanking me if they thought that possibly I hadn't heard them..." or else there's "...They say that 'we are glad you heard us'. They wouldn't be glad if they didn't think I had heard them." And they go on and on, ad nauseum...

PROPOSITION FIVE: In most cases, not all, a DXer is really off his rocker if he is counting on a reply from the station proving to him, the listener, that which he had not been sure of---whether or not he had actually heard the station. I must say that this is the most serious of my propositions and one that never ceases to astound me. I've seen numerous cases where it appears that DXers have heard no IDs, and are not sure of what they've heard, and then--suddenly--they are counting it on the basis of a verification. I believe that this is very risky. I indicated that I feel that there are indeed exceptions. If there is evidence that the station actually checked out the program content you reported, and providing you gave them enough material to check out--or if you sent a tape and are reasonably sure that it was played at the station--then you are justified in claiming such a logging.

PROPOSITION SIX: A QSL should be regarded in most cases as proof of little or nothing---only an interesting souvenir of an unusual listening experience. To have a book of them and go over them some nite when the QRN is too high for good reception, or to show them to friends, is all a fine part of the hobby and excuse enough for getting QSLs.....but please, Fellows..let's not take them too seriously!!

*** **

SUPPORT NASWA-FRENDX!!! SUPPORT THE SWC!!! SUPPORT THE SHORTWAVE HOBBY!!!

PHENOMENON OF THEDARKNESS PATTERN -- EXPLAINED.....by DXer Ed Shaw, Superstar

Shortwave radio broadcasts are of course heard most anytime of day. Even the most fledgling beginner in the hobby has discovered, however, that only the higher fqys are audible during the daylight hours when lower fqys are silent, except for the "noise"; and conversely, that darkness brings better reception on the lower fqys and reduced effectiveness on the higher bands. After a short time the beginner, gaining experience, finds that the DX he is seeking comes most frequently during those darkness hours. Simply stated, the best DX will be found only when there is a continuous darkness pattern between the listener's location and the location of the site of the desired transmitter. In this article, we are presenting the first in a series of charts which will enable the DXer to determine within a very few minutes when the likelihood of catching a desired transmission is possible.

Please keep in mind from the outset that there is one specific phenomenon that controls the greatest portion of optimum DX conditions--the sunspot cycle, rising and falling cyclically in a period of about 11 years. At present the sunspot count for each month is steadily dropping until about Winter-1974, when the low ebb will have occurred and the resumption of the rising count will have begun. It is at this lowest ebb that low-fqy DXing should be at its best--and high frequency DXing at its worst. For now, let us concentrate on the good DX that is available. With proper computations and the knowledge of when and where to listen, your log will surely swell with new catches never before dreamed possible!

The first step is to determine your exact Sidereal Time. All of us probably know how many hours difference we stand from GMT. However, within our same time zones there are many miles to the east and west of us, and the sun rises either earlier or later at those points than at our own location. It is thus necessary to determine within a minute or so exactly what our difference is from GMT...Hence:

With the aid of a good atlas, determine within one degree what your longitude is at your listening QTH from 0,0° at Greenwich. For example, here in Norfolk, the longitude is most nearly 76° West. When this is determined you may now compute one hour's difference for each 15 degrees, or 4 minutes for each single degree. So, you will see that for my location in Norfolk, Va., at 76° West Longitude, I am really 5 hours and 24 minutes EARLIER than GMT. I make a permanent note of this, my Sidereal Time. It remains forever constant.

The next step is to determine within a minute or so when my local sunrise and sunset will occur--in Sidereal Time. This may be found by referring to the chart on the next page, and then by adding to this the Sidereal Time difference I have computed for my longitude. For instance, if my local sunrise according to the chart is at 0534, I should add to this the computed 5 hours and 24 minutes for Norfolk. My answer is a simple 10 hours and 54 minutes Sidereal Time for Norfolk sunrise.

Now with the knowledge of our local sunrise/sunset times in Sidereal Time, we can begin to determine if that DX-catch we desire is within the darkness pattern necessary to propagate their signal to us. Turning once again to our atlas, let's determine the longitude for the desired xnr site to within one degree. For example---in the case of Kampala, Uganda, we find that the transmitter is located at nearly 30° East Longitude, and on the Equator, 0,0° Latitude. The WRTH will often note the coordinates of various transmitter sites. Now, remembering that there is a one hour difference for each 15 degrees of longitude, or 4 minutes per degree, we can see that Kampala is exactly 2 hours east(or later) than GMT. To compute Kampala's Sidereal Time for sunrise/sunset, we will always work with this: always subtracting exactly 2 hours from the chart to get Sidereal Time. Note---- Always subtract hours for east longitudes, and add for west longitudes. (next page,pls!)

The following chart will help you determine the sunrise/sunset times for your QTH and that of the transmitter site. There are a few minutes difference between the latitudes listed, and also between the dates listed. However, an estimate may be closely made for the dates and latitudes in between, by simple interpolation. Just keep in mind that transmissions will propagate between points with darkness between them. This includes periods of twilight before sunrise and after sunset.

RECEPTION OF TRANSMISSIONS BELOW 7,000 kHz

LAT. °	SUNRISE (Local Hour)*					SUNSET (Local Hour)*			
	Reception unlikely after...					Reception unlikely before...			
	4/11	4/21	5/01	5/11		4/11	4/21	5/01	5/11
60	0457	0427	0359	0333		1907	1932	1957	2021
58	0502	0435	0409	0345		1902	1925	1947	2009
56	0506	0441	0417	0356		1858	1918	1938	1958
54	0510	0447	0425	0405		1854	1912	1931	1949
52	0513	0452	0431	0413		1850	1907	1924	1940
50	0517	0456	0437	0421	N	1847	1902	1918	1933
45	0523	0506	0450	0436	O	1840	1852	1905	1917
40	0529	0514	0501	0449	R	1834	1844	1854	1904
35	0534	0521	0510	0500	T	1829	1837	1845	1853
30	0538	0527	0518	0510	H	1824	1831	1837	1843
20	0546	0538	0531	0526		1817	1820	1823	1827
10	0552	0547	0543	0540		1810	1811	1812	1813
0	0558	0555	0554	0553		1804	1802	1800	1800
10	0604	0604	0604	0606		1759	1754	1750	1747
20	0610	0613	0616	0620	S	1753	1745	1738	1733
30	0616	0622	0629	0635	O	1746	1735	1725	1718
35	0620	0628	0636	0644	U	1742	1729	1718	1709
40	0624	0634	0644	0654	T	1737	1723	1710	1658
45	0630	0642	0654	0706	H	1732	1715	1700	1646
50	0635	0651	0706	0721		1726	1706	1648	1632

(*)--Must add Sidereal Time difference for your longitude to this figure

To continue, let's determine when we may possibly receive an xmsn from Kampala. We recall that Kampala was located at 30° East Longitude, or exactly 2 hours later than GMT. Referring to the chart above, we can also determine that Kampala, at 0° latitude on the Equator, has a sunrise of 0558 on 11 April. But we want to determine the Sidereal Time of sunrise, so we subtract from the figure 0558 the 2 hours difference we computed earlier for Kampala. Thus we now know that Kampala's sunrise occurs at 0358 Sidereal Time. Referring again to the chart, we find that Kampala's sunset occurs at 1804 local time, or 1604 Sidereal (minus 2 hours for Kampala's longitude! Equaling 1604..). If we hope to catch R.Uganda, we must be sure that there is darkness between them and us. On 11 April we find that my local sunrise at Norfolk (35° North Latitude) is 0534, or 1058 Sidereal Time (+5Hr24Min). We can see that Norfolk will be in broad daylight when Kampala has sunset. Reception is not possible...BUT Norfolk's sunset is at 1829 local, or 2353 Sidereal Time. Here we can see that there is darkness all the way to Uganda, which will not have sunrise of a few more hours...

The important points to remember are: reception is possible when darkness is between the listener and the transmitter. Subtracts hours for east longitude and add hours for west longitudes. It's as easy as A, B, C, DX!! Next month's chart will cover another later period. Address all questions and comments to Ed Shaw, 621 Burleigh Ave., Norfolk, Va.23505.....Good DXing!

---by Ed Shaw

RADIO ULAN BATOR

"There are not very many DXers who have been able to add Radio Ulan Bator's QSL to their QSL-collections in spite of the fact that it broadcasts on shortwave with a power of 50 kilowatts and on medium-waves with a power of 150 kilowatts. It is no wonder, because the stations are situated very unfavourably in relation to the surrounding terrain. The forest of shortwave antennas is situated on the steppe some 20 kilometers south of Ulan Bator in the middle of high mountains! The MW antenna proudly stands in the middle of the town. But the whole of Ulan Bator is surrounded by high mountains!! "----from the DXclusive (FDXCI) by Erkki Paatero

YOUR DX-CALENDAR.....April:

- (10) Costa Rica: Battle of Rivas
 (13) Thailand: Songkran Day
Sabah
Cambodia: Khmer New Yr (to 15th)
 (17) Syria: Evaluation Day
 (19) Israel: Indep. Day
Venezuela: Indep. Day
Urug.: "Landing of the 33"
 (21) Brazil: Indep. Hero Celebration
Br.Hond.: Queen's Day
 (25) Iran: Death of the Prophet
Austr. & NZ: ANZAC Day
 (26) Tanzania: Union Day
Swaziland: Nat. Flag Day
 (27) Egypt: Sham al Nasim
Sierra Leone: Indep. Day
Togo: Indep. Day

May:

- (1) World: Int'l. Labor Day
 (3) Lesotho: King's Birthday
 (5) Ethiopia: Victory Day
Mexico: Battle of Puebla
Thailand: Coronation Day
 (10) Mali: Baptism of Muhammed
 (11) Laos: Anniv. of the Constitution
Catholic countries: many LA's, and Af. countries celebrating Ascension.
 (15) Liberia: Nat. Unification Day
Sabah: Harvest Festival (from 13th)
Malawi: Kazumu Day
Paraguay: Indep. Day
 (18) Haiti: Nat. Flag Day
Uruguay: Las Piedras Battle

NOW-HELP-ME-GET-MY-JAW-OFF-THE-FLOOR DEPARTMENT

DXer Marlin Field has submitted a list of what has been some traditional NASWA/FRENDX hobby trivia---VAC/QRP totals. "Whooseywhatsis???" you say. In short, log & QSL each continent, trying for lowest possible power....Try these:

<u>N.America</u> ----	Emis. Casa de la Cultura, XEJG, in	200 watts
	Guatalajara, Mexico--4820 kHz.	
<u>S.America</u> ----	OAXLA, Radio Delcar, Chiclayo,	200 watts
	Peru--6700 kHz.	
<u>Asia</u> -----	R.Thailand, Bangkok--7105 kHz.	2500 watts
<u>Africa</u> -----	Mt.Kenya Regional Station, Nyeri,	250 watts
	Kenya--6170 kHz.	
<u>Europe</u> -----	Emisorá Regional dos Azores,	1000 watts
	Ponta Delgada--4865 kHz.	
<u>Oceania</u> -----	VL8BK, R.Kerema, Papua-N.G.--3245 kHz.	250 watts
	<u>TOTAL</u> :-----	1400 watts!!!

THAT'S NOT RTTY QRM --- THAT'S THE PRESIDENT

The Chicago Sun-Times of 2/21/72 indicated that President Nixon utilized the medium of radioteletype to sent written communications to his White House staff during the China trip. SO....if your were wondering just where that unexpected RTTY xmsn came from which was QRMing the heck out of Dili the other day....send reports to 1600 Pennsylvania Avenue, Washington, D.C....No r.-postage necessary.

TRICKS

OF THE TRADE.....Exalted Carrier AM Reception
by Ace DXer Al Niblack

Better shortwave reception is an art. There is more to it than going to your favorite electronics supplier, throwing a bundle of the green stuff on the counter, lugging the receiver of your choice home, splicing it to the handiest skyhook, and at once having DX stations roll in, with the postman simultaneously beating a path to your door with verification cards. Sure, you will hear the USSR, the BBC, the VOA, and Radio Peking, and myriad other loud voices----but if you are looking for real DX it is necessary to gain some know-how. The method outlined in the following paragraphs is but one of the many that will help you along the path to some exciting DX-catches.

In SWBC reception, it often happens that transmission conditions are different for waves of slightly different frequencies. In the case of voice-modulated transmissions which involve sideband fqs differing slightly from the carrier fqy, the carrier and sideband components may not be being received in the same relative amplitude and phases which were present at the transmitter. This effect, known as "selective fading", can cause severe distortion of the signal and hence ensuing loss of readability--rough copy! Selective fading can be reduced somewhat, rendering the signal more readable, through utilization of Exalted Carrier AM Reception.

In actual practice, a receiver with a product detector, designed for SSB exalted carrier reception must be used. Examples of such are the Hallicrafters SX-122A, the SX-100 series, and the SPR4. There are others, of course.

To tune an AM signal via this method, set the receiver to USB or LSB, then follow the normal procedure for tuning single-sideband; tune the receiver to select (accept) only one of the two sidebands being transmitted at the station, letting the rx's BFO re-insert the other sideband, detecting the signal as in the same manner as a conventional SSB signal. In utilizing this selectable sideband feature, the transmitted carrier is positioned out of the rx's IF bandpass along one sideband, producing a suppressed carrier single sideband signal. Depending on the make of rx, the listener may or may not have to insert the BFO into the circuit...in some late models the BFO is tied in with the mode switch and is automatically switched into the circuit when the rig is used for SSB reception.

Of course, in receiving SSB, the rx's variable selectivity is always set to a sharper selectivity reading---this makes tuning more difficult, critical, and sharper. The BFO makes a first-class tuning control for fine tuning and crowded condx when in the exalted carrier mode.

Exalted Carrier Amplitude Modulation (AM) Reception can be the difference between copying and not copying a signal. Sometimes it means bringing a distorted signal (ex: an "over-the Pole" Asian xm) to readability--one which would otherwise be lost.....Exalted Carrier AM Reception. Try it, you'll like it!!

THE DUBAI BROADCASTING STATION

DXer Ronnie Howard informs us the some changes have been made at Saut al Sahel, The Voice of the Coast. "Since the beginning of this year, they have renamed themselves as the Dubai Broadcasting Station. Address: P.O.Box 1695, Dubai, Union of Arab Emirates.

---SCDXers via Ronnie Howard

SPECIAL ANNOUNCEMENT: You, Joe DXer--put your name in lights! Well, put it in print at least. Contributes to Shortwave Center, the DX-conglomeration w/your mind in mind!!

73s-----RALPHUS

QSL REPORT

Gregg A. Calkin
 Rio Balsas 35-702
 Colonia Cuauhtemoc
 México 5, D.F. MEXICO

Deadline: 12th-USE AIRMAIL

A GREAT LEAP FORWARD!

As readers of our March issue will be aware, NASWA has taken a great leap forward with the commencement of offset printing. We are confident that this move will benefit all concerned, and will provide to you, the reader, faster service, more up to date information, and a wider variety of illustrations, diagrams and photographs. QSL REPORT hopes to also expand its service by including more QSL illustrations, and to this end we solicit your assistance. If you receive a new QSL, of a previously unknown design or from a rarely verified station, why not send it or a clear photocopy along to your editor, and if it is at all possible we shall include it in an upcoming issue. In other words, why not share your good fortune with others?

QSLs RECEIVED!

Again this month we have a wide selection of rare verifications. Those which may be of special interest to the avid collector are asterisked in the margin.

AFARS AND ISSAS: Djibouti, 4780, verified by folder QSL in 18 days airmail. 4 IRCs sent, and QSL carried date and time only. (Young) 3 weeks airmail for taped report. (Shaw)

ALBANIA: Radio Tirana, 9780, folder card with all data except frequency. Received in 4½ months. No IRCs (Kaufman) folder card with schedule seammil (Draut)

ARGENTINA: R.A.E./LRA32, Buenos Aires, green map card in 15 days after f/up letter w/3 IRCs inclosed. Total time was 3½ months. Original report sent in Spanish for 9690 kHz (L. Marshall) 10 weeks seammil for 2 IRCs (Linsenmeyer) 3½ months (M. Marshall)

Radio Nacional Mendoza, 6180, letter, pennant and program schedule in 13 days from V/S: Carlos O, Pignolo, Dir. (Dexter)

LBQ9 Time Signal, 8167.5 kHz, letter and details on time service in 8 days after follow-up (Dexter)

ASCENSION ISLAND: BBC, 9510, Thames card for Atlantic relay in 4 weeks w/sk'd for 2 IRCs. (Linsenmeyer) 3 weeks airmail; no data except site (Duba)

AUSTRALIA: VNG Time Signal, 12000 kHz, 2 weeks airmail; no data except site (Duba) 3 weeks air, color card of antennas w/information on station on the reverse (Jeffrey) 2 weeks air; no IRCs sent (L. Marshall) 21 days air returning 2 IRCs (Henderson)

Radio Australia, Melbourne, 21740, card in 66 days, and 17795, card in 68 days seammil (Dickey) 11710, card of Darwin aerial system in 2 months (Sturm) 5995, monolith card in 46 days; no postage sent (L. Marshall)

A.B.C./Perth, 9610, card w/sk'd in 18 days airmail (Dickey) 6140, blue-white card air in 15 days, w/full data. 2 IRCs sent (Schultz) 15425, blue card with map of Western Australia in 10 weeks; no postage sent (L. Marshall)

A.B.C./Sydney, 6090, card in 33 days for aerogramme report w/out IRCs. Complete info and lists power as 2 kW (Henderson) 17 days for 2 IRCs (Kaufman)

A.B.C./Melbourne, 9680 kHz, blue ABC card in 121 days air for 2 IRCs (Schultz)

A.B.C./Brisbane, 9660 kHz, blue ABC map card in 83 days seammil. No IRCs or postage sent (L. Marshall)

AUSTRIA: O.R.F., 6155 kHz, long mountain road scene QSL card with full data. Also report form, programme booklet and long letter from Dr. Alfred Macher thanking me for my report and interest. Airmail reply in 9 weeks (Banta) 9770, 2 months, card with attractive mountain/lake photo (Stuart) 2 months air; no IRCs (Lobdell)

BELGIUM: O.R.U., card and transcript of DX programme in 20 days, for 9620 kHz. (Stuart) 9550, card, transcript, sked and tourist info in 1 month for 2 IRCs and post card (Lay)

BOLIVIA: Radio La Cruz del Sur, La Paz, 4875 kHz, color card and pennant received for English report and 3 IRCs. 2 months (Howard) mountains/llama card and pennant in 4 weeks for mint stamps (Hoogerheide) 13 days airmail for 2 IRCs; stated freq. only (Young)

BOUGAINVILLE ISLAND: Radio Bougainville, 3322.5 kHz, folder card airmail in 17 days from V/S: Mike Dodd, Station Manager. 2 IRCs (Young)

BRAZIL: Radio Brasil Central, 4995, bilingual QSL letter w/full data, color card of radio bldg., in Goiania and sked; air in 6½ weeks for English rpt and 2 IRCs (Howard)

Radio Nacional Brasilia, 15445 kHz, letter in 1 month from V/S: Luthero Toledo for 2 IRCs. No data (Rosen) English letter w/veri statement in 3 weeks for mint stamps and an English report from same V/S (Howard)

BRITISH HONDURAS: Radio Belize, 3300, map card w/ full veri stating previous 5 reports never rcvd. (Kusalik) verified 2 year old report when f/up sent saying original not received and that station hopes to return to the air in mid-1972 on SWBC. (Calkin)

BULGARIA: Radio Sofia, 9700 kHz, card w/University scene in 9 weeks seammal (L. Marshall) 50 days w/sked. No IRCs (Sturm) 82 days seammal for 9700 (Dickey) # 4 and # 5 in the series in 3 months seammal (Lobdell)

BURMA: B.B.S., Rangoon, 5040 kHz, QSL card w/out verification details; air for English report and 3 IRCs. (Lyn) Did you report dire ? (Ed.)

Confirmamos
WE CONFIRM
 o recebimento
RECEIVING
 de seu QSL.
YOUR QSL
 Atestamos
THIS IS TO ASSURE
 que o amigo
THAT YOU, OUR FRIEND,
 ouviu a
HEARD THE

RADIO BANDEIRANTES
 SÃO PAULO-BRASIL

FROM A WELL-HEARD BRAZILIAN

CANADA: Radio Canada, 9625, card in 10 days which shows 6 seasonal photos of Canada. No IRC (Pacheco) RCI/5990, card w/full data in 30 days. No IRCs (Richardson) 11720, new card showing scenes of Canada; 3½ weeks air for mint stamps (Calkin) 11720/9625, cards in 13 and 7 days surface mail (Dickey) Anik 1 card on blue; 2 weeks air (Sturm) 12 days air (Lobdell)

Deutsche Welle relay, 11865 kHz, card w/sked in 140 days airmail (Gavaras)

CKZN, St. John's, 6160, card from v/S: F. H. Holm; 10 days (Gavaras)

CKZU, Vancouver, 6160, card in 7 days from V/S: E. F. McGlath (Gavaras)

CFRX, Toronto, 6070, City Halls card in 12 days. No postage sent (Stuart)

CHU Time Signal, Ottawa, 3330, blue/white card in 5 days w/full verification (Hancheruk). 10 days showing call-sign in blue. No IRCs (Sturm) 7335, time signal card in 5 days, returning 1 IRC (Linsensmeyer)

CHNX, Halifax, 6130 kHz, card in 2 weeks (Linsensmeyer)

CENTRAL AFRICAN REPUBLIC: Radio Bangui, 5038, letter airmail in 30 days containing date and time, no frequency. 3 IRCs sent (Young)

CEYLON: Radio Ceylon, 15120, old yellow card via the Bombay ad agency, and showing a photo of their antenna and buildings. 1 month for 2 IRCs (Kaufman)

CHAD: Ft.-Lamy, 4904 kHz, post card QSL in 5 weeks for 3 IRCs and a taped report (Shaw)

CHILE: Radio Presidente Balmaceda, 9590 kHz, plain card with frequencies and date. 4 months for IRC (Fisher)

CHINA (PEOPLE'S REPUBLIC OF): Radio Peking, 7120, QSL and sked received in 33 days airmail (Reichman) 15060, card of Tien An Men square plus sked; 1 month airmail. No postage sent (L. Marshall) 50 days airmail; no IRCs (Sturm) 67 days by postcard with large packet of propaganda (Fain)

CIANDESTINE: Radio Buzkadi, replied 3½ months after a f/up with a note of appreciation inside a Basque Christmas card. Note implies that I heard them without giving details. Is it a QSL? (Berg) Sure, why not? (Ed.)

COLOMBIA: Radio Guatapurí, 4915 kHz, Spanish letter from G. Peraza Moron, for a Spanish report and 2 IRCs; 2 months tim (Howard)

Radio Sutatenza, programme schedule card with photos of the transmitters, showing date only. 66 days for 2 IRCs (Johnson) 5095, folder card in 7 weeks for mint stamps; seamail. (Rosen) 6075, card w/all data except the time in reply to my Spanish report and 2 IRCs. 13 weeks (Howard)

Transmisora Caldas, 5020, two Spanish letters, Colombian stamps and a nice pennant from Ignacio Escobar Uribe, Gerente; air in 1½ months for Spanish report, mint stamps and U.S. stamps (Howard)

COMORO ISLANDS: O.R.T.F., Moroni, personal letter in French w/verie statement only; 16 days air for IRCs. Reported by registered mail also (Lobdell) 16 days from V/S: M. Rene Poncelet; air for 4 IRCs (Young)

COSTA RICA: TIPC, San Jose, 9645, card, letter and stamps in 2 weeks for English Report and mint stamps. V/S: Sharon Taylor (Lym) Card showing frequencies and Bible verses; 25 days; no IRCs sent (Johnson)

CUBA: Radio Havana, 9550 kHz, card in 20 weeks; no return postage (Linsmeyer) 11840, Full data globe card and letter in 3 months airmail. 1 IRC (Sturm)

CZECHOSLOVAKIA: Radio Prague, 5930, "Fair Grounds" card in 2 months air, w/full data; No return postage sent (Sellers) 7345, b/w postcard w/full data typed in, plus a beautiful two foot square scarf with scenes of Prague and Bratislava and with Radio Prague's name in four languages on the scarf border. Seamail reply in 4 months (Banta) Cards in 90, 81 and 63 days seamail (Dickey) 9505, 1 month for 2 IRCs (Pacheco)

DENMARK: Radio Denmark, 15165, full data card showing radiohouse; 3 weeks air for an English report without IRCs (Sturm) tower card for 1 IRC; air reply for 15165 (Draut)

DOMINICAN REPUBLIC: Radio Libertad, HIDB, 3215, color card of Hotel Caracol, with date and a printed frequency of 3225 kHz on reverse. Signed by Lucia Vanderhorst S., and via airmail for Spanish report and mint stamps. 1½ months total. (Howard)

DUBAI: (U.A.E.) Voice of the Coast, 6040 kHz, card from Abdul Hakim Totah, via air in 5 weeks for English report and 3 IRCs, sent by registered mail to: P. O. Box 1695, Dubai, U.A.E. (Howard)

ECUADOR: HCJB, 9710, card of World Radio Chapel; 3 weeks for 3 IRCs w/full data (Sturm) 11745, sea wolf card in 26 days (M. Marshall) 9615, card in 22 days w/sked and news folder from V/S: Roger Stubbe. (Dickey) 25 days air for return postage (Lobdell) 15155 console card with all data in 3 months seamail. No IRCs (Kaufman) 11745, two cards for two reports and 2 IRCs (Hancheruk) 18 days airmail (Pacheco)

Radiodifusora Cemit, Portoviejo, 4770. Form letter, printed, verification text but containing date only. Air in 7 months for mint stamps, although additional ones were additionally added to the letter on mailing. V/S: Wilfrido Macias PARRALES, Gerente (Wood)

EGYPTIAN ARAB REPUBLIC: Radio Cairo, 9475, mimeo letter in 1½ months w/incorrect time and date (Kelleher) letter and schedule in 2 months for 2 IRCs (Richardson) 9475, mimeo letter in 100 days (Dickey) two letters and sked in 2 months seamail. 3 weeks (Richardson) 98 days for letter and sked airmail. No IRCs (Fain) 101 days containing full data (L. Marshall)

ENGLAND: BBC, 11750, Thames card in 15 weeks; no IRCs sent. (Sturm) 8 days (Dickey)

EL SALVADOR: Radio Nacional, YSS, 9555 kHz, blue/white card w/pennant and tourist folder by air in 6 weeks. No data (Rosen)

EQUATORIAL GUINEA: Rio Muni, 4926 kHz, detailed letter and pennant in 5 months seamail from: H. M. Chele, Technician. 3 IRCs sent (Shaw)

FIIJI: Radio Fiji, 3284 kHz, sailboat/beach card in 6 weeks for IRCs (Hoogerheide)

FINLAND: Radio Finland, map card in 32 days airmail with sked. No IRCs; full verie text (Fain) 9585, 7 days air for 2 IRCs (Pacheco) card w/schedule in 18 days air. 2 IRCs sent for 15185 kHz (Draut) 35 days airmail (M. Marshall)

FRANCE: O.R.T.F./Paris, 15120, brown card w/b/w photos in 2½ months seamail. No return postage sent (L. Marshall)

FRENCH GUIANA: O.R.T.F./Cayenne, 3385, lovely old map QSL-card w/sked included in 3 weeks for English report and 2 IRCs - may be a new QSL replacing former letters. (Hoogerheide) Correction to frequency reported in February FRENDX - should have been 3385 kHz (Patterson)

GABON: R.T.G., 4777, map card (with the wrong time and the wrong year!) received in 6 1/2 weeks for English report and 1-IRC (Howard) Well, you can't have everything! (Ed.)
GAMBIA: Radio Gambia, Bathurst, 4820 kHz, typed verification letter with sked typed on letter and signed by the Director of Information and Broadcasting. For English report w/2 IRCs and 2 months waiting (Kusalik) letter in 23 days stating it uses the Cable and Wireless 3.1 kW xmtr (Stuart)
G.D.R. RBI/9730, card w/full data but less sked in 4 weeks (Sturm) 6165 kHz, color card with date and frequency, sked and two foot long 1972 sports calendar. Seamail reply for no IRCs, in 3 months (Banta) 37 days w/a flag card and large wall calendar.
G.F.R. Detusche Welle, 11785, bilingual card in 2 months w/full data. No IRCs. Station also included their station paper in German (Richards) 6075, map card in 15 weeks (Fisher) 15165, map card in 4 months airmail stating also that one IRC is sufficient and available for reimbursement to regular monitors (M. Marshall) I assume that offer is made on an individual basis to specific listeners only (Ed.)

German Hydrographic Institute Time Signal, DAO-Kiel, 2775 kHz, replied with a folder card containing an English note inside. 9 days airmail from Dr. H. Enslin. Also returned my IRC the following day (Dexter) DAM-Hamburg, letter and complete info in 10 days for 1-IRC. One of the most complete QSLs ever received (Henderson)

VOA Munich, 6095, 30 year anniversary card from Washington in 8 days w/all data except the time. V/S: Rosemary Bailey (Dubu)

GHANA: Radio Ghana, 11850 kHz, card in 52 days airmail; no IRCs (L. Marshall) 11850, card in 53 days air for 2 IRCs. All details, w/sked (Sellers) 6 weeks for 1 IRC (Conner)

GUAM: NPN Aguna, replied with a nice blue/gold card by sea; air in 17 days for one 8-cent stamp. All details and lists a 40 kW Xmtr (Henderson) 21760, card in 11 days airmail for mint stamps (Young)

GUATEMALA: Radio Cultural, TGNA, Quetzal Bird on a white card in 16 days; no IRCs sent (L. Marshall)

GUYANA: Action Radio, 3290, full data letter in 10 days airmail for 2 IRCs. V/S: Maurice O. Denny, C.E. Envelope had 14 stamps on it for cancelled ones I enclosed (Sellers)

HAITI: 4VEH, 15280, folder card w/map of Caribbean. Full data; reply in 1 month air. (Lobdell) 12 weeks seamail for 1 IRC. V/S: Mrs. Kent Ragsdale (Linsenmeyer). 16 weeks w/religious enclosures (L. Marshall) 11835, blue map folder in 3 months (Sturm)

HAWAII: WWVH, 10,000 kHz, card in brown w/full data. 1 1/2 weeks airmail. No IRCs (Sturm)

HONDURAS: La Voz Evangelica, HRVC, card and tracts by air in 3 weeks for 3 IRCs (Draut) 4820, card in 3 weeks for 2 IRCs (Richards)

La Voz de Honduras, 5875, letter in 3 weeks from Carlos E. Riedel for 2 IRCs and a Spanish-language report (Kelleher)

HUNGARY: Radio Budapest, 9833, cards in 107, 86, 65 and 44 days (Dickey) 61 days airmail for 9833 kHz (Fain)

INDIA: AIR Delhi, 11710, card with picture of the Pearl Mosque in 2 months (Fisher) 124 days air for 2 IRCs (Schultz)

INDONESIA: Jogjakarta sent usual RRI card, but with full data including call and site, and noted that "Your report is correct". Reported and reply from city direct. V/S: Tjptosunardi, "On behalf of the Public Relations Officer". 2 months air for registered report and mint stamps (Berg)

INTERNATIONAL WATERS: Radio Nordsee International sent card with color photo of the Mebo II and no other details. Five months for three IRCs and came airmail (Elliott) Two cards in 1 and 2 months for 2 reports, one coming with a personal letter from DJ Paul May. 2 IRCs (Lay) Mebo II card in 5 1/2 months air for English report to Switzerland with mint stamps which were not used (Sellers).

IRAQ: Baghdad, 9735 map card in 13 months for 2 IRCs (Hoogerheide)
ISRAEL: I.B.A., Jerusalem, 7225, "Old Jerusalem" card in 4½ months seammil for a report in English. No return postage sent (Lobdell) 6 weeks for no IRCs (Sturm) 6170, Jerusalem experimental test frequency in 30 days airmail. 4 IRCs (Hancheruk) 9725, Israel Museum card in 5 months (Kelleher) 32 days registered mail w/skcd by air. 3 IRCs (Fain)
ITALY: RAI, 9575, multi-color card of map and antenna, by air for post card and 2 IRCs in 46 days (McCaul) 11810, map card in 18 weeks for 1 IRC; seammil (Linsenmeyer) IBF/Turin Time Signal, 5000, black/white card of clock showing skcd of transmissions and letter from Prof. Ferro Milone welcoming all reception reports. 15 days air for 2 IRCs. Full verification (Hancheruk)
IVORY COAST: Abidjan, 11920, card, letter and programme schedule in 280 days for 2 IRCs (Draut)

JAPAN: JJY, 15000, card in 32 days seammil (Gavaras) 17825, snow festival card w/skcd Report form, newspaper, calendar in 4 weeks air. No return postage (Linsenmeyer) 9505, 20 days airmail; no IRCs (Sturm) Special card commemorating 35th anniversary; 16 days air (Richardson) 15445, "Sacred Cranes" card in 20 days air (Lobdell) 17880, Sapporo 72 card in 13 days airmail (M. Marshall) Apart from initial JJY listing, all the above are, of course, NHK, Radio Japan. Apologies for any confusion. (Ed.)
 NSB, JOZZ, Tokyo, 6055 kHz, mike card received in 25 days. No return postage. (L. Marshall)
JORDAN: Radio Amman, 7155, color p/card of Mosque in 1 month seammil. 1 IRC sent. Full data verie (Rosen)

KENYA: Voice of Kenya, 4915, aerogramme QSL in 25 days by airmail. 3 IRCs, and gives Full data (Young) Aerogramme with two pictures of broadcasting house and the transmitting station. 6 weeks air for 2 IRCs. Letter in English for 4915 (Clawson)
KOREA (P.D.R. of): Radio Pyongyang, 16320 kHz, color post card in 6 months with a personal message, 4 more p/cards and copy of "Korea Today" review. Seammil, with full data (Rosen)
KOREA (REP. of): Voice of Free Korea, 9640, Pagoda card received in 32 days. No postage sent (L. Marshall)
KUWAIT: Radio Kuwait, 11925, folder card and programme schedule in 10 months air for 2 IRCs (Draut) 15345, folder card w/station and coun try info on 2nd try; 25 days. (Schultz) 25 days for 11925; airmail reply (Lobdell)

LESOTHO: Radio Lesotho, 4800 kHz, flag card w/full data in 2½ weeks airmail. 3 IRCs sent (Howard) 10 days for mint stamps (Hoogerheide)
LIBERIA: ELWA, 11940, Monrovia, black, red and white card of African drummer; 35 days by air for 1 IRC. Full verification and power marked (Hancheruk) 4770, drummer card seammil in 5 months (Milly) 15170, card in 83 days with religious tracts for 1 IRC (Reichmann)
 VOA Monrovia, 7280, card in 2 weeks from V/S: R. Bailey (Linsenmeyer)
LIBYA: Libya B/C Service, El Beldam sent letter for 10 kW Tripoli xmtr on 8630 kHz in 35 days from the Chief Engineer (Henderson)
LITHUANIAN S.S.R. Radio Vilnius, 9610, card for their 'programme' in 3 months sea. (Draut)
LUXEMBOURG: Radio Luxembourg, card of antennae in 2 months for 6090. 1 IRC (Stuart) 14 weeks for 6900. All data for 2 IRCs (Lay) 8 months for 1 IRC (Conner)

MALAGASY REPUBLIC: Radio Nederland relay, card via Holland in 10 days and a letter from the C.E. at the xmtr site for a report on their Xmas test xmsn which apparently originated from Tananarive and not Hilversum. 6 weeks air for mint stamps (Berg) 18 days air for 2 IRCs (Schultz) 15260, 10 days for 1 IRC (Howard)
MALAYSIA: BBC Relay, 9725, Thames card w/site typed in; seammil (Schultz) 17860, Thames card for Far East Relay in 1 month, via London. No IRC (Stuart)

MALI: Radio Mali, Bamako, 5995, English report and 2 IRCs netted an OCORA card with full verification data and written-in French statement about North American Service (Kaufman)

MARTINIQUE: O.R.T.F./Port-de-France, 3315, letter from L.-M. Cohic for French report and 2 IRCs. (Hoogerheide)

MAURITANIA: Nouakchott, card and personal note in French from the C.E. in 17 days airmail for 3 IRCs. Date, time, but not frequency given (Young)

MEXICO: Radio Mexico, 9705 kHz, registered letter and pennant received in 11 weeks for 1 IRC sent (L. Marshall) RM is several months behind in their replies, but during a recent visit they assured me that QSL cards were being printed and that all reports, which were neatly bundled according to month received, would be QSLed if correct (Ed.)

La Voz de la America Latina, 9515, verified by letter from V/S: Bernardo Sancristobal, Gerente General, when report sent to locally listed address: Ayuntamiento 52, Mexico 1, D.F. instead of that in the WRTVH which had



NEW
300 Kcs.

LA VOZ DE LA AMERICA LATINA DESDE MEXICO

CADENA RADIODIFUSORA MEXICANA, S. A.

AYUNTAMIENTO 52 • MEXICO 1, D. F.

Tel 518.12 20

repeatedly netted no responses. 3 weeks total for mint stamps (Calkin)

MONACO: TWR 7290, card for English report and 2 IRCs, also religious broadsides in 64 days airmail (Heutte) 7290, 32 days w/ b/w card of antenna; by air for 3 IRCs. Full data (Rosen) 3½ months seammall; no postage sent (L. Marshall) 7295, 3 months for 1 IRC (Kaufman) 1 month (Stuart) Taped report of English programme brought photo card of antenna system. Complete info (Marks)

Radio Monte-Carlo, 7135 kHz, antenna card with no data except date. 2 months for no IRCs. (Kaufman)

MOROCCO: VOA Tangier, 9625, star card in 12 days from Washington; no return postage (L. Marshall) 9770, card in 14 days air from Washington (Matsuura)

NEPAL: Radio Nepal, Kathmandu, card in 50 days after f/up of January 1970!! Sent Bookpost airmail and just arrived (Henderson)

NETHERLANDS: Radio Nederland, 9715, recording team card w/sked in 6 weeks air for 2 IRCs (Linsenmeyer) 8 days airmail (L. Marshall)

NETHERLANDS ANTILLES: Radio Nederland, card for Benelux DX-Club programme, blue and white in 30 days for full verification. No IRCs (Hancheruk) Commemorative Malagasy card for Bonaire reception in 20 days air. No IRCs (Hancheruk) 11730 in 8 days (Dickey) 11730, new card for Malagasy relay (Sturm) 9 days airmail (Marshall) 9 days for 2 IRCs air (Pacheco)

Trans-World Radio, card of flamingoes plus sked in 2-3 weeks air for 3 IRCs. Letter/note enclosed said that no IRCs would bring a sea reply, 3 IRCs brings an air reply (Sturm) OK, what does 2 or 1 IRC bring? (Ed.)

NEW BRITAIN: Radio Rabaul, 3385, folder QSL in 22 days air for 3 IRCs and cancelled Canadian stamps. V/S: Station Mgr (Sellers) 11 days airmail stating date and time (Young)

NEW CALEDONIA: Radio Noumea, 7170, full data card w/map of New Caledonia and antenna tower on island. 2 months and 2 IRCs for English report (Kaufman)

NEW ZEALAND: Wellington, 11780, card w/full data and travel info in 3½ months seammall. No IRCs sent (L. Marshall)

NICARAGUA: Radio Nacional, Managua, 11875 kHz, post card and pennant in two weeks from Douglas Amaya, Director Artistico. (Goldstein)

NIGER: Radio Niamey, 9705, card, sked in 13 days air w/all data except frequency. 3 IRCs sent (Young)

NIGERIA: Voice of Nigeria, 15200, green/white flag card in 43 days w/all data. IRC returned (Lay)

NIGERIA (Cont'd): N.B.C./Benin City, 4932, card via Lagos in 47 days for English Report and 2 IRCs (Heutte)

N.B.C./Calabar, 6145, letter direct from Calabar w/verie stmnt and frequency only and signed by the C.E. Also stated they are only operating w/ 6 kW at present because of lack of parts. 22 days; no IRCs (Fisher)

NORWAY: Oslo, 9550 kHz, card with full data, plus program schedule in 11 weeks. No return postage sent (L. Marshall) 19 days by registered mail w/sked; air. No IRCs sent (Fain) 9550, beautiful color card of Mountain Range, 10 days (Pacheco) 9610, 1 month (Kelleher)

PAKISTAN: Karachi, 11672, green/white card from Rawalpindi, via V/S: Nihal Ahmad, Director, Listener Research. 2 IRCs sent; reply by air w/full data (Schultz)

PAPUA: VLK3, Port Moresby, blue ABC card in 15 days air for 2 IRCs. Full data (Schultz) 4890, 4 weeks air for 2 IRCs; all details (Sellers) 4 months for 2 IRCs (Draut) 9520, 19 days airmail. No return postage sent (L. Marshall)

PHILIPPINES: F.E.B.C./Manila, 11920, globe card in 3 months airmail with usual religious enclosures (M. Marshall) yellow globe card with lightning bolts. All data for 2 IRCs in 1 1/2 months (Kaufman) 11890, card and religious material in 10 weeks for 1 IRC (L. Marshall) 7225, card in 40 days air for 3 IRCs (Schultz) VOA/Pororo, card for 15185 in 5 days from Washington (Stuart) 6 weeks

(Fisher)

POLAND: Warsaw, 6135, map card w/sked and letter in 8 weeks air. No IRCs sent w/ rpe (Linsenmeyer)

PORTUGAL: Radio Portugal, 6025, map of the world/exploration card and pamphlet on Portugal. 9 days airmail for 2 IRCs (Pacheco) 1 week airmail (L. Marshall) 6025, 47 days w/sked. No IRCs sent (Sturm)

PORTUGUESE GUINEA: Em. da Guine Portuguesa sent QSL-folder with full details in 30 days for report in Portuguese and 2 IRCs for 5041 kHz. Also sent postcard with African dancer depicted and personal note. (Heutte)

► REUNION: O.R.T.F./St.-Denis, 4807, letter and folder card received in 3 weeks for French report and 3 IRCs (Hoogerheide) letter and schedule in 31 days airmail, for 3 IRCs. Letter is not confirmation, however. Why? (Young) OK, I'll bite. Why? (Ed.)

ROMANIA: Radio Bucharest, 17710, Romanian folk instruments card in 59 days air (Matsuura) 9690, card, sked and station stickers in 65 days seamail (Dickey)

RUSSIAN S.F.S.R. Radio Moscow, Armavir, 7205, card in 43 days specifying site (Milly) 28 days air (Gavaras) 7200, 5 weeks air (Duba)

Radio Moscow, Blagoveschensk, 9580, card in 35 days with sked & report form; air w/site (Schultz)

Radio Moscow, Khabarovsk, 7175, card w/full data and site in 6 weeks; no postage sent (L. Marshall) 35 days w/sked and report form air (Schultz)

Radio Moscow, Serpukhov, 5940, card air in 32 days. (Gavaras)

Radio Moscow, Sverdlovsk, card air in 32 days for 7150 (Gavaras)

orange/blue USSR emblem card, plus 1972 pocket calendar in 42 days air for 7150 (L. Marshall) 5 weeks air (Duba) 43 days (Milly)

Radio Moscow, Tula, 2 cards for 7250 in 5 weeks airmail (Duba) 7245, 43 days (Milly)

"Radio Moscow programme", 9755, star card on blue w/sked. Air in 1 month. No IRCs (Sturm) 7150, air in 31 days (McCaul)

RWANDA: Radio Rwanda, 6055 kHz, white card w/no data but thank you in English and French for French report and 3 IRCs. 2 weeks only (Hoogerheide) plain card, as above, in 2 weeks for English report and mint stamps (Berg)

Deutsche Welle/Kigali, 11905, all data QSL on blue and yellow map card, via West Germany in 2 months. No IRCs (Kaufman)

SAO TOME: R. Clube de Sao Tome, 4807, post card QSL in 3 months for taped report. Reply direct from Sao Tome with beautiful stamps. (Shaw)

SAUDI ARABIA: SABS, 11855, crossed swords card in 6 months sea registered (Rosen)

SEYCHELLES: F.E.B.A., Victoria, 11950 kHz, card in 1½ months for 3 IRCs. Rpted in English. V/S: Mary Berry (Lobdell) 11935, card in 4 months seammil for cancelled Canadian stamps. Also sent sked and religious information (Sellers) 11950, card in 1 month airmail for 3 IRCs (Lym) 23 days w/sked and stamps; air (Rosen) 45 d (Draut)

SIERRA LEONE: Freetown, 5980 kHz, postcard showing ferry service in 71 days from R.H.A. Gilpin, C.E. 2 IRCs sent and reply by airmail (Schultz)

SINGAPORE: Radio Singapore, 11940, card w/no data (Richards)

SOMALI REPUBLIC: Moqadiscio, card in 25 days airmail for 4 IRCs. Complete verie, for 6093 kHz (Young)

SOUTH AFRICA: SABC, Johannesburg, 3250, all data on very colorful card; 23 days for 2 IRCs (Kaufman) 6195, Springbok Radio, multicolor card of South African technology; 30 days air for 3 IRCs (Hancheruk) 4945, 1 month air w/sked (Plum) 3250, 16 days 2nd class airmail for 1 IRC (Henderson) 4905, multi-pix color card air in 1 month for 1 IRC, w/all details and w/Radio RSA pennant (Sellers) 9695, 26 days air but no postage sent (L. Marshall) 3250 kHz in 18 days for 1 IRC (Henderson) 3250, card in 3 weeks for 1 IRC (Kusalik)

Radio RSA, 11970, blue earth card in 5 weeks air (Banta) 3 weeks air w/sked and information about the station (Jeffrey) via air with magazines for 2 IRCs (Pacheco) 21545, card in 18 days air (Matsuura) card in 2 weeks air (Sturm) 15175, 11900, 11970, 6140, cards in 23, 61 and 59 days (Dickey)

SPAIN: Radio Nacional de Espana, 6140, card and sked in 50 days seammil (Dickey)

SUDAN: Omdurman answered my report with their usual form letter/sked from A. Rahman A. Basit in 27 days airmail for 4 IRCs (Michalenska)

SWEDEN: Stockholm, 9725, card in 9 days airmail; no IRCs sent (L. Marshall) 14 days for 21625 kHz (Goldstein) 9670 kHz, card of Northern Lights in 10 days air (Matsuura) 21505, card in 1½ months air. (Lobdell) 6175, 22 days for 2 IRCs (Pacheco) 6 weeks for 2 IRCs (Linsenmeyer) 9630, card in 35 days w/full data (Hancheruk)

SWITZERLAND: SBC/Berne, cards for 11715 and 9535 in 83 and 25 days (Dickey) 11715, harbour card w/full data; 20 days air. No IRCs (Sturm) 6120, card in 32 days w/sked and report forms (Reichman) 6120, b/w photo of bobsledders; by air for 2 IRCs (McCaull) 9535, card from J. A. Chisholm (Linsenmeyer) 15305, Kloten Airport card in 51 days air (Matsuura)

I.C.R.C., Geneva, 15305 (Jan 25 trial freq.), Red Cross/microphones card in 16 days air for no IRCs (Matsuura) 7210, card in 12 days airmail for 3 IRCs w/all data except the time (Duba)

TADZHIK S.S.R. Radio Moscow, Dushanbe, 7220, card and report form by air in 34 days for no IRCs. Full data including site (Schultz)

TAIWAN: V.O.F.C., 17720, two cards for one report; one w/data, the other showing tourism attractions; air for 1 IRC (Richards) 27 days air w/sked, newspaper and postcard (Dickey)

➤ Voice of Righteousness, Taipei, sent attractive yellow and white card with "thanks" and "OSL" on front, veri statement and date only on the reverse. Also sent personal letter from V/S: Chou Chi-wei, Chief for Program Division. They note that correct address is: 210 Section 1, Chih-Cheng Road, Taipei. Also sent sked in Chinese. 5 weeks, air, for 3 IRCs (Berg)

➤ THAILAND: Thai TV Co., 6012, letter, registered airmail in 3 weeks from V/S: Visit Amphavorn, Deputy Director (Dexter)

TOGO: Radio Togo, 5047, map-globe card in 23 days air for mint stamps, w/date and time only (Sellers) usual red-green globe card with map in 23 days air for mint stamps. (Richards)

TUNISIA: Radio Tunis, 6195, color p/card w/all data from External Relations Dept., in 35 days. English report for 2 IRCs (Lay) 6195, QSL seammil in 20 days (Milly)

TURKEY: Turkish Meteorological Station, 6890, letter from Prof. Dr. Umran E. Colasan, Dir. General, 2 months (Dexter)

Voice of Turkey sent card and sked in six months. Card showed a picture of peasant dancers and indicated time and date only. No IRCs. (Elliott) 15160, 8 months, after sending 5 reports and receiving 4 skeds. Finally!! (Rosen) 15190, all data card w/picture of women in traditional costume. 3 months (Kaufman) 6½ months for no IRCs (Johnson)

UGANDA: Radio Uganda, Kampala, 4976/5026, letter airmail in 17 d. from H. Humphreys C.E. 3 IRCs brought registered reply (Young) 4 wks for mint stamps. C.E. said he is fairly certain I heard them, but that lack of staff makes rpt checking difficult (Hoogerheide) Traditional excuse (Ed.)

UKRAINIAN S.S.R. "Radio Kiev" programme, 7105, card in 1 month (Kelleher)

Radio Moscow, Vinnitsa, 5980, card air in 38 days (Schultz)

U.S.A. WWV Time Signal, 10000, card in 20 days (Kelleher) 31 days (Watman) 2 weeks air w/all details and signed by John T. Stanley (Sellers) 3 weeks (Linsenmeyer)

WINB, 17720, card and sked in 10 days (Kelleher) 17720, 8 days (Dickey)

NPG Time Signal, Dixon, Calif., complete verie card in 9 days giving E.R.P. as 800 watts!! (Henderson) Freq: 12966 kHz (Ed.) 6428.4, self-prepared card returned along with station QSL in 6 days (Schultz)

NSS Time Signal, self-prepared card returned from Washington in 5 days (Schultz)

URUGUAY: Radio El Espectador, 11835, card fm Hector Amengual in 5 months for Spanish rpt w/2 IRCs (Howard) 141 days sea w/personally-typed calling card featuring 4 gold towers and black DDU letters = Difusoras del Uruguay (Michalenka)

VATICAN CITY: Vatican Radio, 15260, card air in 8 weeks (Padula) 5995, card in 14 days air (Dickey) 11725, 13 days air (L. Marshall) 9615, 20 days (Dickey) two weeks air for 5995; 2 IRCs sent (Goldstein) 5995, card in 15 days (Fisher) 10 days (McCaul)

VENEZUELA: Ecos del Torbes, personal letter w/pennant in 19 days (Lesordo)
La Voz de Anaco, 6020, letter airmail from Edmundo Jose Sotillo, Director, in 2 weeks (Dexter)

Radio Bocono, 5010, Xmas card in 9 months after rpt, showing color photo of station but no verie. Returned w/request for verification and received full data QSL plus personal letter from Ernesto Leon, Director (Sizer)

Radio Barquisimeto, card in 22 days for 2 IRCs and EE rpt (Kelleher)

Radio Continente, 5030, antenna card in 3 weeks for English rpt, mint stamps and small local post card (Howard)

Radio Litoral, 5060, card in 10 months (Sparks)

Radio Nacional, 11725, registered form letter w/pennant in 6 weeks for I IRC (Danzher) ditto in 2 months for taped report (Marks)

Radio Puerto La Cruz, 9680, personal letter in Spanish giving date, time and verie statement; 14 days air for 2 IRCs. V/S: Rodolfo Enrique Fuentes (Lobdell)

Radio Rumbos, 4970, color p/card w/full data in 10 weeks for 1 IRC (Howard) 9660, 1 month air for 1 IRC (Plum)

Radio Tropical, 4870, color pennant, letter and p/card in 2 months after 10 reports in 11 years!!! V/S: Angelo Grasso (Field)

Radio Universo, 4880, network card w/date and frequency in 19 days for 1 IRC. 21 days for IRC and Spanish report (Plum)

AND SO ENDS ANOTHER MONTH! SPECIAL THANKS TO THE FOLLOWING MEMBERS FOR THEIR SUPPORT:

Steven d'Adolf, MA	John Fisher, ONT	Russ Lay, VA	Dennis Pacheco
John Banta, NY	Tom Gavaras, MN	Matthew Lesordo	Mike Reichman, IL
Jerry Berg, MA	F. Goldstein, PA	Chris Lobdell, MA	Ralph Richards, CA
Ron Bruns, MO	Dan Henderson MD	A. Linsenmeyer, IL	Edward Richardson, LA
G.A. Calkin, MEXICO	Fred Heutte, DC	Brian Lym, CA	Evan Rosen, NY
Charles Conner, LA	Ron Howard, MD	Anthony Marks, OR	Bill Schultz, PA
Richard Clawson, MD	N. Hancheruk, FQ	Mrs M Marshall, ND	Harold T. Sellers, ONT
Gregory Danzher, NY	J. Hoogerheide MI	Larry Marshall, CA	Edward C. Shaw, VA
Donald Dickey, MN	Tom Jeffrey, OR	Geo McCaul, CT	Alvin T. Sizer, CT
Gerry Dexter, WI	E. Johnson, FL	Doug McClellan, NM	Greg Sorknes, THAILAND
Eric Draut, IL	Bob Kelleher, NY	H. Matsuura, JAPAN	Bill Sparks, CA
Mark Duba, VT	Greg Kelly, VA	Doug Munger, NM	Jerry Stuart, OK
Kim Elliott, MO	A. Kaufman, NY	Chris Milly, MD	Mike Watman, NH
Jackie Fain, KY	Neal Kolb, FL	Bob Padula, AUSTRA.	Dr. R.E. Wood, LA
Dan Ferguson, WV	E. Kusalik, ONT	C.R.Patterson, GA	James W. Young, CA
Marlin Field, MI	Steve Kamp, CA	W.J.Plum, NJ	Zim Zabransky, IL

And so, until we meet in the May QSL REPORT, please keep those reports coming in to your editor's desk, and please remember to be sure and doublespace all items using only one side of the page. Many thanks and BEST 73s,

A. Gegg

RADIO ESPAÑA INDEPENDIENTE

30 de abril 1971

We acknowledge with thanks receipt of your QSL of 13. marzo 1971. on 12.140 kcs 25 metres on 06 w. at 06.55 GMT.

We hope that you will continue to receive and enjoy our programs.

RADIO ESPAÑA INDEPENDIENTE

única emisora española sin censura de Franco

Dibujos: P. Picasso - Composición: J. Renau

Sr.
 Gregg A. Calkin
 131 Cooper St. apt. 903
 Ottawa 4, Ontario
 Canada

Radio Espana Independiente, the Communist Clandestine station which transmits daily from Eastern Europe, is heard well in North America despite jammers in the Iberian peninsula.

16m. 19m. 25m. 31m.

SEARV

South East Asia Radio Voice
 "Searv"-ing Asia with the Gospel of Christ
 Project of the National Council of Churches in the Philippines
 and the World Association for Christian Broadcasting
 Box 4148, Manila. Philippines

S.E.A.R.V. is one of Southeast Asia's lesser known voices, but one which is both willing and anxious to establish links with DX-ers abroad. The reverse of the QSL contains a detailed verification.

LISTENER'S NOTEBOOK

Dan Ferguson, 1521 Smith Road, Apt.7, Charleston, W.Va. 25314. Phone (304) 346-5738

BBC MONITORING SERVICE Listener's Notebook often carries notes and schedules credited to BBC MS. BBC MS information is generally received once a week, and the amount of material depends on the amount of monitoring & compiling done by BBC MS during the previous week. Those who are interested in receiving the information direct from BBC MS should write Mr. G. A. Weston, Chief Monitor; Special Listening Section; BBC Monitoring Service; Caversham Park; Reading RG4 8TZ, ENGLAND. Price is currently US\$57.20 per year. As far as I know, BBC MS is the only source of current, accurate schedules on many broadcasting organizations; e.g., Radio Peking. (DF)

BANGLADESH Radio Bangladesh sends a sked, said to be effective beginning 5 March:
 0030-0220 Home Service 15520, 11672 The skeds courtesy of Dan Henderson and
 0230-0300 GOS 15520, 11672 Steve d'Adolf. Notes from Larry Magne put
 0630-0800 Home Service 15455, 17910 the listed 15520 on 15517v. The sked also
 1100-1220 Home 15520, 11805 notes pur of first tx (the one with fqy listed
 1230-1300 GOS 15520, 11805 first-except second on 0630 tx) at 100 kw,
 1320-1350 Nepalese 7260, 5885 the second tx being 10 kw. Note the sked fails
 1405-1545 Home 15520, 11672 to mention the old 7095 fqy. Is that still in
 1600-1630 Indian Svc 9850, 5885 use?

CHINA I still have ample supply of the Peking HS sked, as well as the sked of Chinese regionals, compiled by BBC, Larry Magne, and two Japanese DXers. These are FREE for an SASE, from this editor. Two pages of solid info on the Chinese internal services, and only about 6 NASWAers have asked for copy so far: (DF).....Richard Wood notes the China sked given in March omitted the Russian svc. Yes, sked taken from BBC, and did not include RR svcs. Richard further points out that the fqys listed for Serbo-Croat at 1230 could not reach Yugoslavia. Nor could the 9440 fqy listed for Italian at 1100 reach Italy or Somali Republic. He also notes Spanish is listed on 5545 at 1230-1230....Yes, these do seem odd; but all are as appeared on BBC MS skeds, so I cannot at this time offer explanation. Sorry I did not note the oddities in the March section. (DF)

N.KOREA Pyongyang external service schedule: KK=Korean, MM=Mandarin
 0001-0100 KK to LA 16320, 15150, 3560 1700-1800 AA to ME/Afr 9515, 6540, 3560
 0100-0200 SS to LA 16320, 15150, 3560 1900-2000 EE to ME/Afr 9515, 6540, 3560
 0200-0300 EE to ME/Afr 9515, 6540, 3560 2000-2100 KK to KE/Afr 9515, 6540, 3560
 0300-0400 Japanese 11750, 6540, 3560 2100-2200 FF to ME/Afr 9515, 6540, 3560
 0400-0500 KK to SEA 15150, 6540, 3560 2200-2300 MM 9515, 6540, 3560
 0800-0900 EE to SEA 15150, 6540, 3560 2300-0000 SS to LA 16320, 15150, 3560
 0900-1000 RR 9515, 7580, 3560 Pyongyang sked to S.Korea/Japan:(Korean)
 0900-1500 Japanese 6540, 4410 1955-2100 6400, 6250, 5870, 4770, 3320
 1000-1100 MM 9515, 7580, 3560 2100-2200 6400, 5870, 4770, 6250, 3320
 1100-1200 EE to SEA 15150, 9515, 3560 2200-1200 6400, 6250, 5870, 4770, 3320
 1200-1300 MM 9515, 7580, 3560 1200-1500 6400, 6250, 5870, 4770, 3320
 1300-1400 EE to SEA 15150, 9515, 3560 1500-1700 6400, 6250, 5870, 4770, 3320
 1400-1500 EE to SEA 15150, 9515, 3560 (All to S.Korea except 6250 & 3320 at
 1500-1600 FF to SEA 15150, 9515, 3560 1200-1500 & 2100-2200, which are to Japan)
 1600-1700 Russian 6540, 6260, 3560 (BBC Monitoring Service)

NIGERIA ex-V/s F.A.C. Diejomash no longer at Maiduguri, now at Lagos stn according to recent letter. States definitely that 4900 is Maiduguri, but it relays Enugu, etc at times. New maintenance engineer at Maiduguri is O. Adeniyi(F. Earle Hall) That should clear up a large dose of confusion over this station. (DF)

ANARC CONVENTION TO BE HELD IN BOSTON THIS SUMMER - - - SEE CENTER PAGE THIS MONTH!!

ITALY RAI sked:

National Program

0500-2230 on 6060, 25 kw, Caltanissetta

Second Program

0500-1110 on 7175, 5 kw, Caltanissetta

1130-1330 7175,

1400-2305 7175

Third Program

1600-2215 on 3995, 50 kw, Rome

Night Program

2306-0459 on 6060, 25 kw, Caltanissetta

(BBC Monitoring Service)



OFFICE DE RADIODIFFUSION-TELEVISION FRANÇAISE

LIBERIA is now permanently on GMT, according to the BBC. (Richard E. Wood)DENMARK Corky Webb sends sked of R.Denmark, noting that is exactly as in WRTH.EGYPT Home Service sked from Cairo, per BBC - - -

General Program

0400-0630 9455, 7075

0700-1100 17670, 15175, 11630, (9495(not Fri))

1100-1500 17670, 15175, 11630

1500-1700 17670, 11630

1700-0000 12005, 11630, 9475, 7075

(BBC MS skeds, dated January 1972)

"Voice of Fatah"

1730-1930 Arabic on 9755

"Holy Qur'an Station"

0400-0900 9755

1200-1730 9755

1930-2100 9755

CAMEROON John Soneff sends note with fqys for Cameroon stations, from QSL card, but they gave no times. Address for Yaounde is same as in WRTH.MONGOLIA Radio Ulan Bator external services...

0820-0850 Mongolian(not Mon) 10650, 7235

1030-1100 Mandarin(M/Th) 7260, 5053, 4080

1030-1100 Russian(Tu) 7260, 5053, 4080

1040-1100 Russian(Fri) 7260, 5053, 4080

1220-1250 Eng(not Sun) to SEA/FE 17825, 17785, 8892

1300-1330 Mandarin(not Mon) 5958, 4948

1330-1400 Mandarin(not Mon) 5958, 4948

1400-1430 Mongolian(not Mon) 5958, 4948

2200-2230 Eng(not Sun) SEA/FE 11860, 11810

(BBC Monitoring Service)

NEW ZEALAND RNZ, from 5 March, to the Pacific area at 1700-1945 on 9755/11780; at 0600-0845 on 9540/11780; at 2000-0945 on 15110. To Australia at 2000-0945 on 17770, and at 0900-1145 on 9520/11705. (David Coursey relaying notes from Arthur Cashen hrd on HGJB.)SOUTH AFRICA The SABC internal sw service schedule follows, direct from SABC, via Dan Henderson and BBC MS.

Afrikaans Svc	English Svc	Springbok Radio	Meters
0358(Su0500)-0521	0358(Su 0500)-0520	0300(su 0400)-0522	60/49
0521-0731	0520-0730	0522-0722	31/49
0731-1521	0730-1520	0722-1522	31/25/49
1521-1621	1520-1620	1522-1622	31/49
1621-2115(Sa 2200)	1620-2115(Sa 2205)	1622-2200(daily)	60/49
4875, 6075, 9650,	4965, 5955, 9680,	4945, 6195, 9720,	
11885	11790	11935	

(Frequencies for each svc listed under the schedule for that service.)

The All Night Service, "Radio South Africa" (not R.RSA) operates 2200-0300 on 3250 and 4945 kHz. (BBC MS and Dan Henderson)



HQ NOTE: This month's LOG REPORT was edited by Jerry Berg, his last LR section. All reports for the May and future LR sections should be sent to the new editor, Larry Magne; P.O. Box 2133; Mid-City Station; Philadelphia, PA 19103 USA.

LOG REPORT

- 2310 INDONESIA Djakarta, chorus 2145, good, but 2230 f/o (BL).
 2315t S KOREA KBS, good 1437 w/Korean radio drama (PP).
 2340 CHINA Foochow fair w/opera 1445, not // other 120 m fqys (PP).
 2450 HAITI 4VSO, FF hymns 0045-0100, fair w/het (BL), EE 0200 (BB).
 2390 MEXICO R.Huayacocotla, mx, educ prgms to 0200*, Mon-Fri (GC).
 2446 REUNION ORTF, hrd *0230, vy weak. LM, then FF nx (DH). Earlier rpt should have been credited to BBy instead of BB (BBy).
 2470 CHINA Hangchow listed, opera, CC anmts 1430. Exc sig (PP).
 2600 CHINA Fukien, revol mx 1411, //2797, not //3200 or 3400 (PP).
 2800 CHINA Fukien fair in HS at 1201 (SK).
 3015a Unid. stn here in Jap at 1450, male ancr, similar to Jap MW stns but did not check them out. Any ideas? Japan? (PP).
 3200 CHINA Fukien Front Stn, Amoy tlk at 1115, poor. //3400 (LM).
 3205 INDONESIA Bandung, RRI time chimes 1400, then nx (BC).
 3215 DOM.REP R.Libertad, LA ballads 0400 (RWP), to 0455* (EU).
 3223 SWAZILAND Swazi Radio, hrd 1955 w/western pops, a few EE anmts. Severe Peking QRM which s/on 2000 on 3220 (BP).
 3230 FIJI Suva, quite weak in EE 0700-0900, ID and lite mx 0759 (SK). Play 0940, hrd to 1030* w/GSTq. Low modul, high QRM (RWP).
 3230 PERU R.El Sol hrd in SS tlk 0300, quiet format (BB).
 3240 PERU R.America hrd 0300 w/SS tlk, LA vocals. Best yet (BB).
 3240 Unid. SS tlking, instr-mx at 1130. Super poor, much fading (MH). Mostly SS tlk 0405, some LA mx. Hvy QRM, to 0515 t/o (JDT).
 3245 VENEZ R.Libertador, good lvl, ads, anmts, mx to 0100 (EU, ML).
 3250 S.AFR Springbok Radio, N:E 0230 (ER), pops, coms (RD), to 0300* (RWP). Also N:E hrd 0330, pop mx. Bad static (TS).
 3255 VENEZ LV Tigre, SS requests 0338, 0358* (CP). 1035-1125 (EU).
 3260 CHINA Kweiyang hrd well in HS at 1103 w/a play (SK).
 3275 VENEZ R.Mara, *0957 (EU), LA mx arnd 1100 (SK), fair 0305 (RWP).
 3275a Unid, maybe Laos or Cambodia, drama past 1455, Lao or Cambodian lang, but not //6090 (BC). 3277t, definitely an Indo here (BBy).
 3284 FIJI Suva, weak 0955, island mx, vernac tlks (RWP).
 3285 S.AFR SABC good w/pops 0412, EE/vernac anmts. Poor modul (RWP).
 3290 ECUADOR LV Agoyan, weak at best 0200-0303*, clear ID (GC).
 3290 GUYANA GBS, nx 0100 (RD), pops arnd 0300 (BL, ER). IS before 0845 opening, Ind mx to 0930, better than at nite (BC,EU,RWP).
 3295t GHANA believed the one at 2300* w/anthem. Maybe alt test fgy(BB).
 3295 VENEZ R.Trujillo. *0958, ads, mx, TCs, etc to 1030 (EU).
 3300 GRENADA WIBS, nx 2245, 2343, BBC nx 2300 (EU). 0210* (TS).
 3307 RHODESIA Gwelo, mx, ads arnd 0410, f/o 0425. Hvy QRM (TS).
 3310 CHINA Peking, revol songs 1200, pips on the hr. CW QRM (TS).
 3315t ECUADOR R.Pastaza, Ec mx 0614, off abruptly 0620.Vy poor (CP).
 3320 N.KOREA Pyongyang good 1500 w/3 pips, tlk by woman (PP).
 3323 ECUADOR Ondas Quevedenas, mx 0515, ID, fairly good (CP).
 3325 VENEZ R.Monagas, mx, anmts to 0406*, CHU QRM (EU).
 3326 GHANA Hrd w/EE 2245, also seems a test fgy (BB). Hrd to 2301*, and was dual to 4980 (EU).
 3335 N.GUINEA R.Wewak, Pidgin tlks 1202, stocks. Fair (CP).
 3350 GHANA Ejura, EE ID 0606, nx. Fair (RPH). Gospel mx 2230 (ML).
 3355 DOM.REP LV Romana, mx 0315 (ML), LA mx to 0359* w/anthem(JDT).

- 3356 BOTSWANA Gaborones, EE mx 2050, to 2100*. Extended sked, hrd on a Thursday. //4845 also hrd (BP).
- 3360 GUAT LV Nahuala, IDs, tlks, prgm summary 0330 (RWP), marimba mx 0400 (TA), 0435* (EU). Also Mex-type mx hrd at 1147 (BC).
- 3365 DOM.REP R.Exitos, LA ballads 0110 (RWP), clas.mx to 0501* (EU).
- 3365 VENEZ R.Puerto la Cruz hrd w/TC, ads, anmts, mx 1030-1130 (EU).
- 3366 GHANA Accra, N:E 2100, then native lang to 2301*, //4915 (EU).
- 3378 ECUADOR R.Iris, mx, anmts, etc to 0505* w/anthem (EU, JDT).
- 3380 GUAT R.Chortis, ID 0218, marimba mx (BC), vy good arnd 1200(EU).
- 3385 N.BRITAIN R.Rabaul, US and local mx 0738-0753 (JDT).
- 3385 VENEZ R.Barcelona, baseball, ads, anmts, good 0100-0300 (EU).
- 3390 ECUADOR R.Zaracay, my prgm 0400, few IDs (ML).
- 3395 VENEZ R.Universidad, mx and ads 0230 (EU), 0401* w/anthem(JDT).
- 3396 RHODESIA Salisbury, EE ID 2050, then N:E (BP). N:E 0404 (JDT).
- 3400 CHINA PLA, CC tlks 1145, little mx. Poor (CP).
- 3406 DOM.REP R.Santiago, always good, sports, mx 2300-0300 (EU).
- 3560 N.KOREA Pyongyang definitely here, believed 1300-2000 (except 1800-1900), //6580 (BBy).
- 3778 IRAN Tehran, Persian tlks 0340, poor and ARO QRM (LM).
- 3886 CAPE VERDE R.Cl.C.Verde, 2220 w/mx, ID, PP nx 2230. Unstable (BL). Guitar mx 2228, to 2301* (JDT).
- 3900 CHINA PLA-Fukien, tlks 1140, poor, ARO QRM (LM).
- 3910 JAPAN FEN, rock mx, EE anmts 0840 (MH).
- 3925 JAPAN NSB, Jap tlks by man, good at 0842 (MH).Jazz, ID 1530(PP).
- 3940 CHINA Wuhan, good at 1207 in CC HS (SK).
- 3952 ENGLAND BBC WS, tlks on N.Ireland at 0617 (CDM).
- 3995 SOLOMON IS. SIBS, ID, Pidgin nx 0800, lite mx, ad (SK). Pops, ID 0915, TC (RBO). ID 1015, fairly good and in the clear (RWP).
- 4000m Unid. regularly w/FF to 0815, then EE. Hvy RTTY. SABC? (MH).
- 4401 Unid. Korean lang Asian, singing at 1015. Poor (LM).
- 4545t KAZAKH Alma Ata weak 0208, RR tlks. Chopin mx 0213, tlks (PP).
- 4600 Looks like previously rptd Indo wasn't here after all--image(BEY).
- 4615 CLAND BBy's Laotian (2/72 LR) hrd 1200. GH rptd long ago as Pak Sane //7392. Who? (BB).
- 4635 COLOMBIA R.Santa Fe, LA mx hrd 0300 (GD).
- 4635 TADZHIK Dushanbe, fair 0130 w/RR folk mx (BL).
- 4660 CLAND Pethet Lao now here, ex-4650 (BBy). Tent 1210, mx (TS).
- 4680 ECUADOR R.Nac.Espejo, plays, ads, mx 0030-0700 (EU), cmtry 0300 (BL). Mx, many IDs at 0515 (ML, MD).
- 4739 ECUADOR R.Progress, Ec mx 0315, folk songs, ID. Fair (BL).
- 4746 DOM.REP LV S.Domingo, //4775 Musical, *1055. Ads, dance mx, etc, either spur or HIFE relaying Musical. Fair (LM). 4747, Unid. LA. not HIFE. TC 0300, one mention of R.Nacl (GLD).
- 4750 ZAIRE Lubumbashi, fair w/native mx 0405 (GLD), weak 0445 (ML).
- 4755 BRAZIL Rdif.Maranhao, IDs, ads, mx, anmts from *0854 (EU).
- 4755 COLOMBIA Em.N.Mundo, SS nx 0315, Caracol ID (RWP), 0500 (EU).
- 4760 KAZAKH Dzambul, fair in RR HS, 0839 (SK).
- 4760 VENEZ R.Frontera, mx and anmts 1005-1130, low audio. 0100 (EU).
- 4765 CONGO RTVC, IS, anthem, Afr mx at *0423 (EU), FF tlk 0430 (GD), FF or vernac tlks 0515 (SK).
- 4765 ECUADOR CRE, LA format 1030-1130, 0100-0300 (EU), jingle 0315(RWP).
- 4770 LIBERIA ELWA, BBC nx 0600, then local nx (JA, RWP). Ditto at 0700 (EU). Fine w/EE anmt at 2330* (GLD).
- 4770 VENEZ R.Bolivar, good, many IDs arnd 0130 (BK), nx 2300 (EU).
- 4771t INDONESIA Djakarta, chorus mx 1237, tlk, mx 1254 (JDT). 4770, unid. weak Asian at 1320 (RWP).
- 4775 DOM.REP Onda Musical, ex-4782, IDs 2250 (LM), exc 0043 (RPH), LA mx 0225 (GD), comis 0230 (RWP), to 0430* (TS, MD). And at

- *1050 (EU).
- 4775 ECUADOR R.Progreso, *1056, mx, prayers (EU), ID 1200 (TS).
- 4777 GABON Libreville, FF/Afr mx 0512 (SK), strong at 2050 (BP).
- 4780 HONDURAS R.Juticalpa, good about 1200 w/mx, clear IDs (GO).
- 4780 VENEZ LV Carabobo, choral pops 0200 (RWP), ID 0440 (MD). Mx and IDs to 0602* on a Sun (RBO). Hrd 0200-0530, 1030-1130 (EU).
- 4783 MALI Bamako, clear sig in FF, Afr chorals at 0615 (RWP).
- 4785 AZERBAIJAN Baku (listed), chants 0220, Sitar-type mx, complicated rhythm structure in mx (PF).
- 4795 BRAZIL Tabajara or Congonhas here 0920, weak, PP anmts (RWP).
- 4797 ECUADOR LV Caras, fair w/ads and jingles at 0320 (RWP).
- 4800 LESOTHO Maseru, vocals, man ancr 0409 (GLD), vernac nx 0415-0420, N:E 0430, mx, ID, pips, BBC nx 0500 (SK, LM, BC).
- 4800 VENEZ R.Lara, LA mx and SS IDs hrd 0300 (RFH).
- 4807 ECUADOR R.Popular, strong 0320, LA fare. Ever off? (RWP).
- 4807 SAO TOME Hrd at *0530 in PP, singing, PP anmts, to 0544 (JY).
- 4810 VENEZ R.Popular, LA mx, ads, vy good at 0200 (MD).
- 4815 CHINA Peking w/singing, fair at 1325 (RWP).
- 4815 ECUADOR Canal Manabita, on late, ID hrd 0900 (SK).
- 4815 UPPER VOLTA Ouagadougou, Afr mx 0630 (GD, CF), tlking in FF 0645 (RWP).
- 4820 GAMBIA Bathurst, fair w/Koran chant 0635 (RWP), BBC nx 0700(JA).
- 4820 HONDURAS HRVC, rel mx 0235 (GD), EE ID 0300, rel prgm (JWP,JF).
- 4825 DOM.REP LV Fuerzas Armadas, tlk 0322, ID, mx (DL).
- 4832 C.RICA R.Capital, SS tlk (GD). Time-? (Ed).
- 4840 PERU R.Atlantida, in the clear 0415, IDs, 0500* (DH).
- 4840 VENEZ R.Valera, hrd w/SS ID at 0539* on a Sun (RFH).
- 4845 BOTSWANA Gaborones, hrd to 2100* on a Thurs (BP), EE to 0430, then into Afr dialect. Pips on the hour (MH).
- 4845 BRAZIL Rdif.Teresina, PP tlks 0259, jingles, nx (RWP).
- 4845 MALAYSIA K.Lumpur, Asian mx hrd 1215 (TS).
- 4850 MAURITANIA Nouakchotte, AA cmtry 2045, f/i 2020 (BP).
- 4855 MOZAMBIQUE LM, instr mx, some anmts. Best in a while (GLD)Time?
- 4860 INDIA AIR, prgm summary for overseas svc, 1945 (BP).
- 4860 VENEZ R.Maracaibo, pops 0010 (JF), many IDs 0200 (BK), LA mx 0210 (HS, MD), ID 0615 (RBO). VOA coverage of Nixon in CC,0340(SK)
- 4863 BRUNEI Berakas, fair w/tlk 1205 (RWP), tent, pops 1410 (TS).
- 4865 BRAZIL R.Cl.Para, PP ballads, ID 0235 (BL), weak mx 0250 (MD).
- 4865 CHINA Peking hrd in CC 1130-1145 (PF).
- 4870 ECUADOR R.Rio Amazonas, SS 1100 shortly after s/on (BB).
- 4875 ECUADOR LV Esmeraldas, SS rel svc 0200 (TS).
- 4880 DOM.REP -R.Comercial, 0500 (GD), to 0702* (EU). Tlk 0410 (DL).
- 4890 PAFUA Pt.Moresby, beep hrd just as closing at 0800* (RR).
- 4890 SENEGAL Dakar, in FF at *0600, then long chant. Fair (CP).
- 4890 VENEZ Rdif.Venez, NA pops hrd 0401 (JF).
- 4900 NIGERIA Maidugari, N:E 2500, off 2305 after ID and anthem.Only assume it's Maidugari--anyone clear it up? (RWP). All I know is it still sounds like Enugu to me, but . . . (Ed).
- 4900 VENEZ R.Juventud, IDs, tlk 0135 (DL), ID and pops 0200 (BK,JF).
- 4905 COLOMBIA Em.Atlantico, many ads, ID 0300. Hets (MD).
- 4910 GUINEA Conakry, rel chorus 2140, ID, strong (BL).IS 2258 (RWP).
- 4911 ZAMBIA Lusaka, vernac cmtry at 2050 (BP).
- 4915 COLOMBIA R.Guatapuri, ID and nx 0300 (MD).
- 4915 GHANA Accra, EE to 0615, then dialect. Poor (MH). N:E 0600 (PP), N:E 2100 (GD, BP), cmtry 2120 (MD), N:E 2245 (JA, JPR).
- 4915 KENYA Nairobi, EE cmtry 2120, native mx. Strong (BL).
- 4920 HONDURAS R.Progreso, good to 0400* most nights (GC). Ranchera mx 1145, sketch. Good sig (CP).

- 4920 AUSTRALIA Brisbane strong w/N:E 0910 (RWF).
 4923 ECUADOR R.Quito, ID 0312 (MD), nx, mx 0200 (BL), clas.mx 0255 (RPH), SS mx at 0330 (GD).
 4925^t MOZAMBIQUE LM, comls, TCs, mx. EE anmts, 0410. 0430 f/o (JA).
 4926 RIO MUNI Bata, poor at 2215 w/Afr chanting (BL), *0430 (JY).
 4930 DOM.REP R.Mil, ID 0012 (DL), ads, mx, pops arnd 0100-0200 (BK, JF, TBA), ID 0320, big hum (MD). Good 0530 (MH), nx 2300 (EU).
 4930 ECUADOR Casa/Cultura, hrd 0340 (GD).
 4932 NIGERIA Benin, good w/EE tlk 2200. Best time of yr for them(EH).
 4940 IVORY COAST Abidjan, ID, mx at 0600 (JWP). Poor 2130 w/jazz (MD), EE lesson 2145 (BL), Afr mx 2320, //11920 (JF).
 4940 RSFSR(As) HS frm unknown FE site, strong 0827 (SK).
 4940 UKRAINE Kiev fair 0625 w/RR HS, Abidjan strangely absent (SK).
 4940 VENEZ R.Yaracuy, LA ads, mx, good lvl (MD). WHAT TIME-? (Ed).
 4945 COLOMBIA R.Colosal, good at 06 0 w/litt e tlk, mostly mx (BK).
 4945 S.AFR SABG, hrd in EE at 2200* (PF). TC 2253 (RWP), mx, spots, IDs 0010-0030 (MH). Vy good, EE/Afrikaans 0302-0320 (CP).
 4950 SARAWAK Kuching, low lvl at 1313, vernac tlks (RWP).
 4955 INDONESIA Banda Atjeh, island mx 1210, lost 1235 to RTTY (JDT).
 4956 BRAZIL R.Cult.Campos, PF weak 0245, frantic sports ancr (RWP).
 4960 CHINA R.Peking hrd 1130-1200 w/CC tlking, mx (PF).
 4965 COLOMBIA R.Santa Fe, LA mx, tlks 0100 (BK), ID 0128 (MD).
 4970 CLAND Guinea Natl Lib Front, FF at *2101-2207*. Poor-fair (LM).
 4970 VENEZ R.Rumbos, mx and tlk 0200, ID 0206 (BK).
 4972 CAMEROUN Yaounde, hrd 2208 w/FF tlk, Afr mx to 2245 (ER).
 4972 Unid. FF stn hrd 0930 and 1030 w/prerecorded Paris time sigs. Probably Fr.Guiana or Haiti (BB). Also hrd after 2300 or so (Ed).
 4975 CHINA Foochow hrd in CC HS at 0934 (SK).
 4975 PAKISTAN Karachi w/EE tirade against Bangladesh, 2035 (BP).
 4980 GHANA Ejura, jazz 2220, ID and hymns 2230. Fair (BL).
 4980 VENEZ Ecos/Torbes, mx, tlk, ID 0050 (DL), 0200 (BK), 1100(JF).
 4990 NIGERIA Lagos, weak but clear 2150 w/clas.vocals (BL).
 4990 VENEZ R.Barquisimeto, vy good 0200 w/tlks, LA mx (BK). SS 0300 (DL), frequent IDs 0348 (RWP).
 4996 BRAZIL R.Br.Central, pops, singing ads, IDs 0200 (RWP).
 4996 PERU R.Andina, SS mx 0510, ID hrd at 0645 (RBO). ID 1025 (LM). Also hrd unid. rel svc at 0137, but too poor a sig (TS).
 5000 NEPAL Kathmandu, lang 0130, Asian mx. Slow drift frm WWV (BB).
 5010 DOM.REP R.Cristal, ads, mx 0035 (JF), strong 0200 (RWP). Pops, then nx 0355 (MD). Still hrd 0600-0700 (MM).
 5015 GRENADA WIBS, BBC sports to 2300, ID, BBC nx and cntry (JPR).
 5015 RSFSR(As) Vladivostok, R/S Rodina ID 0800 (SK). Poor w/pips at 1200, "Govorit Vlad" ID, tlks (CF, RWP).
 5015 RSFSR(Eu) Archangelsk (presumed), RR mx, tlks, 0650, no //s(IM).
 5030 VENEZ R.Continente, nx bulletin 0330 (SK), many IDs 0408 (MD).
 5038 C.AFR.REP Bangui, N:E 2040 (BP), mx 2215 (BL), FF nx 0535 (BC).
 5040 BURMA BBS, mx and songs 1145-1215 (FF), western pops, N:E at 1446, also ID (RBO).
 5047 INDONESIA Jogjakarta, puppet plays 2050 (BP), EE arnd 1130-1200, nx and a feature. Sometimes s/off 1200. Good sig (BC).
 5047 TOGO Lome, FF tlk 2100 (GD), FF nx 2215 (MD), ID 2300 (JA). Also *0530 in FF, fair-good (RWP).
 5050 SINGAPORE RS, EE tlk in progress 1100 (FA).
 5050 VENEZ R.Mundial, IDs, mx 2345 (ER), 0230 (GD), ID, nx 0320(RWP).
 5062 VENEZ R.Litoral, mellow mx, IDs 0300 (RWP), nx 0104 (MD).
 5240 CHINA PLA, tlking 1425, //5170 (TS).
 5273 PARAGUAY R.Nac, here now w/nx in SS, ID 0005. Vy weak by 0045-- seems to leave air 0033-0040 (DH, BB).

- 5845 INDONESIA Maybe Djakarta (chimes indicate W.Indonesia), ID 1500, nx, IS of chimes 1528, off 1538 after guitar mx. IDs as "programa nasional" with no studio mentioned (BC).
- 5850 CHINA Peking, *2300 in lang, IDs, nx, "East is Red" (LM).
- 5875 HONDURAS HRN, SS, man tlking on telephone, 0155 (MW).
- 5900 USSR RM (presumed) in RR 2315, //5915, 5940 (LM).
- 5905 USSR RM (presumed) in RR play 2305, fair (LM).
- 5920 BYELORUSSIA RM-Minsk (listed), nx hrd 2106 (TBA).
- 5965 BRAZIL R.Guaiba, good at 2340 w/PP amts and clear ID (RWP).
- 5965 MALAYSIA K.Lumpur, hrd 1350 w/nx, good (RR).
- 5970 PERU R.El Sol, ID 0615, then sank.(RBO), LA mx 0705 after CBC closes down (JDT).
- 5975 CANADA CBC, IS to 0715, then prgm to Afr. DX Sat 0730 (JA).
- 5980 EL SALVADOR R.Nacl, on at 1135 w/mx (JF).
- 5980 S.LEONE Freetown, exc w/EE documentary at 0820 (TBA). Is 10 kw according to veri (RWP).
- 5990 RSFSR(As) Nikolaevsk (listed), strong w/HS nx 0903 (SK).
- 5990 CANADA CBC, mx 0610 while CBC personnel on strike (RBO).
- 5995 MALI Bamako, Afr mx 0732 after VOA off (JA), native chants, weak at 2230 (BL), FF tlks.2340 (TBA). Mixing w/VR IS 2355 (RWP).
- 5995 VATICAN VR, EE rel prgm 0055-0104, off, into FF 0108 (NAP).
- 6000 BRAZIL R.Inconfidencia, PP ads and pops at 0845 (TBA).
- 6005 ASCENSION BBC, WS prgms to Afr hrd 0430 (TBA).
- 6005 BOLIVIA R.Progreso, SS mx, ads at 0850 (TBA).
- 6005 CANADA CFCX, DJ show 1145 (RPH), mx and wx at 2150 (GD).
- 6010 CYPRUS Limassol, EE by R in Eur Svc, 2130-2145* (TBA).
- 6010 ITALY RAI, strong 0050 w/tlk on Australia, birds, bells (HST).
- 6010v MEXICO R.Mil xmtg open carrier daily, no modul (GC).
- 6015 DODECANESE IS VOA-Rhodes, poor at 2145 w/EE tlks (TBA).
- 6015 Unid. pirate, 1840 w/badly recorded mx, some obscene, 1910* (MW).
- 6020 NETH.ANT RN, 2300-0030 to Caribbean, nx (HST). HST listed as Malagasy, but doubt that they're using that xmtr for NA (Ed).
- 6025 PORTUGAL Lisbon, EE/PP at *0200 (HST), exc 0405 (BG).
- 6030 W.GERMANY Suddeutscher R, ID, pops 2200-2215, GG nx 2300 (TBA).
- 6035 POLAND Warsaw hrd 0200 w/EE to NA (GD).
- 6040 ENGLAND VOA-Woofferton, EE to Eur 2115-2130 (TBA).
- 6040 W.GERMANY DW, EE to NA 0230 (GD), mx 0235 (JAR).
- 6040 LIBERIA VOA, good at 2006 w/N:E (FH).
- 6040 TRUCIAL STATES Voice of the Coast-Dubai, still good w/AA mx at 1230 (RPH).
- 6050 CYPRUS BBC-Limassol, ID 2100 and into Rumanian (TBA).
- 6050 ECUADOR HCJB, SS ID 0300 (GD), clas.mx 0322-0350 (JAR).
- 6055 COLOMBIA R.Pacifico, exc at 0312 w/a sports event (JDT).
- 6055 ESTONIA RM-Tallinn, HS IS 0429, then HS prgm. Listed (BC).
- 6055t RWANDA Kigali vy low 0332, FF tlks, squeezed both sides (RWP).
- 6056 HONDURAS R.Suyapa, wandering, SS/EE nx 0500, pad modul (GC).
- 6060 HONDURAS R.America hrd here irregularly, best at 2145 just before Cuba clobbers them (GC)
- 6060 RSFSR(As) Chita, RR play 1007, //6090, 6195 (SK).
- 6070 CANADA CFRX, ads and pops 1900 (RPH).
- 6065 COLOMBIA R.Super, SS mx, IDs, TCS, ads, 0500-0530 (TBA).
- 6075 W.GERMANY DW, fair at 0515 in EE (BG).
- 6080 ALGERIA Algiers, good w/AA chants 0015-0045 (BL), 0740, assume also them at 2245 (RWP).
- 6080 E.GERMANY RBI, N:E 2245-2300 (JA).
- 6080 Unid. seems to s/on 0200 after pips, hrd under RSA. Chorals (RWP)
- 6082 PERU R.Nacl-Lima, fair 0215 w/SS soccer, SABC splash (RWP).
- 6085 BRAZIL R.J.Comercio, PP nx, cmtry 0210, abrupt close 0225 (RWP)

- and at 0900 w/ID, ads and mx (TBA).
- 6085 NETH.ANT TWR, EE ID 0335, into Rumanian (JDT).
- 6085t W.GERMANY BR, lite mx 0723, maybe GG lang (SK).
- 6090 ARGENTINA R.Belgrano, down low, LA mx 0235, echo anmt (RWP).
- 6090 LUXEMBOURG R.Lux, EE pops arnd 0000-0200 (RWP, TBA, BM, MW), and exc in GG prgm at 0700 (JA).
- 6090 RSFSR(As) Irkutsk (listed), hrd w/radio play in RR, 1003 (SK).
- 6095 BRAZIL Rdif.S.Paulo, PP anmts, orch.mx, a mess at 0035 (RWP).
- 6097 SOMALIA Mogadishu, fair w/chant at 0305 (RWP). 6095t, tlk in lang by man at 2012, hvy QRM (FH). How about Baghdad? (Ed).
- 6100 W.GERMANY DW, IS hrd 0130 (FA).
- 6115 MEXICO R.Univ.Sonora, hrd 0130 fighting w/R.Union (GC).
- 6120 NICARAGUA R.Atlantica, ID, mx, anmts 1253, weak but clear (JDT).
- 6120 SWITZ SBC, N:E 0130, good mx (HSt), and at 0400 in EE (GD).
- 6120 VENEZ R.Angostura, strong 1045, IDs, R.Rumbos nx (JDT).
- 6125 COLOMBIA R.Continental, DJ show, nx 0000 (RWP). IDs, ads, mx etc at 0246-0300, Todelar ID 0300 (SK).
- 6125 RSFSR(As) ID 0858 hrd for R/S Yunost, Tashkent listed (SK).
- 6130 CANADA CHNX, rock mx to 0000, nx, RNE QRM at 0100 (AEL).
- 6130 NORWAY Oslo, mx and Norw tlk 0620, occasional EE ID (RBO).
- 6130 GHANA Tema, EE to W.Afr 2055, mx, ID, nx 2100. Fair (HS).
- 6130 SPAIN RNE, EE to NA 0200, fair (JWP).
- 6135 CHILE R.Univ.Concepcion, M&W ancrs frm 1101, some brief mx(GLD), *1050 w/anthem, full ID. Much better than in the evening (BB).
- 6135 POLAND Warsaw, EE to NA 0200 (TBA, JDT), and 0300 (BM, NAP).
- 6140 AUSTRALIA ABC-Perth hrd w/nx at 1000. Poor (BG).
- 6140 COLOMBIA LV Cali, live sports at 0240 under big DW QRM (RWP).
- 6140 MEXICO R.Univ.Chihuahua, weak 1610-1643, lite mx, IDs, TCs (GC).
- 6140 NIGERIA Calabar, good at 0700 w/nx (GC).
- 6140 SPAIN RNE, EE to NA, mx 0118 (HS), tlk 0215 (DL). EE 0300 (FA), ending EE at 0340 (GD).
- 6145 ALGERIA Algiers, recent NF, hrd w/AA chants at 2205 (BP).
- 6150 AUSTRALIA Melbourne, nx and comedies 0850, nx (BG), ID 0912(TEA).
- 6155 AUSTRIA Vienna, EE 0035, SS 0045 (BM). GG nx 0200 (JWP). Olympic rpt 0030 (HSt).
- 6155 IRAQ Baghdad, AA nx 0405, poor, Austria QRM (IM).
- 6155t SWAZILAND Swazi Radio probably hrd under Austria at *0400 w/C&W mx. No chance for ID. SCDX says watch 4890 and 7100 as possible test fqys (DH). Also hearing some C&W mx (RWP).
- 6160 CANADA CHU, usual coml prgming at 0400 (TJ).
- 6160 COLOMBIA Em.N.Grenada, mx, ads, IDs 0417 (TS), vy good w/peppy LA tunes 0840 (RWP), and SS nx at 1115 (RWP).
- 6165 HUNGARY Budapest, IS 0100, weak (JWP), N:E, cmtry 0110 (HS, JAR).
- 6165 S.VIETNAM VTVN, fair and in the clear 1155 w/tlks (RWP), ID 1215, old US songs. Fair (RWP).
- 6175 MALAYSIA K.Lumpur w/Mandarin svc, poor 1213, instrs (RWP).
- 6175 SWEDEN Stockholm, ID, accordian mx, Swedish at 0100 (JWP).
- 6180 ARGENTINA R.Nac.Mendoza, poor at 0250 w/ID under TGWB (CDM).
- 6180 GUATEMALA, LV Guat hrd 0100 w/nx, ID, tlks 0105 (HS).
- 6180 VENEZ R.Turismo, fair w/VOA QRM 1107-1138 tune (GLD).
- 6185 MEXICO LV Maestro, now again active Mon-Fri *1400-1820v*, much educ and transcribed prgms from intl beers (GC, GH).
- 6190 MOROCCO RTVM weak at 2240 w/AA chants (RWP).
- 6190 USSR Petropavlovsk, nx in RR and tlks at 1205 (TS).
- 6195 COLOMBIA R.El Sol hrd here w/ID 1130, ex-6140, maybe has swapped fqys w/LV Cali (BB).
- 6195 AZERBAIJAN Baku, RR play at 1004 (SK).
- 6195 ENGLAND BBC, WS, EE nx hrd at 1200 (TS).

- 6195 S.AFR Springbok R, exc 0404 w/rock mx, EE/Afr comls (BM).
 6195 TUNISIA Tunis, AA anmts, nx 2200 (RWP), exc *0458-0550* (BM).
 6199 CLAND LV Pathet Lao, Lao mx and anmts 0923, //4663. Seemed like nx 1003 (JY). Weak w/nx 1210 (RWP).
 6200 ALBANIA Tirana, EE 0245, mixing w/RM (CDM).
 6205 INT'L WATERS RNI, usual DJ format 2200-0400 (RPH, BM, AEL).
 6251 N.KOREA Pyongyang, choral mx hrd 1245 (TS).
 6405t THAILAND Or Sor (Royal Household) stn, just audible 1230 (BB).
 6580 CHINA Peking, talk by lady in lang at 2210, fair (FH).
 6610 CHINA Peking at *2200 in N:E, fluttery (FH).
 7011t CLAND VoFUNK, carrier on 1057, new s/on 1100, via VoV xmtr (LM).
 7065 ALBANIA Tirana, usual tirades 0000-0030, strong and clear (HSt).
 7075 EGYPT Cairo, clock strikes at 0500, AA nx (TS).
 7105 SPAIN RNE, SS ID and mx hrd at 2010 (MW).
 7110 DODECANESE IS. VOA-Rhodes, into A& 0400 (JF), chants 0455 (CDM).
 7115 PORTUGAL RFE-Lisbon, exc in Gungarian 0500-0600 (AEL).
 7115 SAIRE Kinshasa hrd w/ varied mx at 0510 (FA).
 7120 USSR RM, sports prgm 0049, space tlk 0116 (WT).
 7135t TAIWAN VoFG, in Indonesian at 1030, FE mx (RWP).
 7150 RSFSR(As) Sverdlovsk, EE prgm 0510 about VOA propaganda (CDM).
 7155 JORDAN Amman, AA mx 0450 (RPH), weak w/chants 0605 (JDT).
 7160 ALGERIA Algiers, songs and anmts 0800, //7250, 6080 (BP).
 7165 RYUKYU IS. VOA-Okinawa, N:E at *1100, mx 1130 (LKM).
 7170 N.CALEDONIA Noumea, FF mx, tlks 0805 (BG), FF nx 0900 (JDT), ballads 1025, close down 1105 after LM (RWP).
 7175 SICILY Caltanissetta, poor-fair 0604 w/man in Italian, mx (CDM).
 7180 AUSTRIA Vienna, poor 1958 w/IS, GG 2000 (FH).
 7180 SABAH Kota Kinabalu, native lang 1000, ID 1005, N:E 1100, some comls. Weaker on //7240 (BP).
 7185 CLAND R.Sparks, straight CC tlk at *1000, poor, jamming (LM).
 7190 CEYLON Colombo, vy weak at 1235 w/old pops (RWP).
 7200 TAIWAN Voice of Righteousness, good 1058 w/carrier, anthem, chorus, ID, then CC tlk by gal (RWP).
 7215 BRUNEI Tutong, fair w/old mx 1240, poor modul (RWP).
 7220 ALGERIA Algiers, FF pops and anmts 0650, //11835 (BP).
 7220 USSR RM in CC now here at 1130, recent NF (BP).
 7225 PHILIPPINES FEBC, rel prgms 1215, best fgy hrd (RWP, AAM).
 7225 RWANDA DW-Kigali, EE 0430-0500 (AEL).
 7230 SP.SAHARA Aaiun, weak AA chant 0804, not so good lately (RWP).
 7240 SABAH Kota Kinabalu, N:E 1100, //7180 (BP).
 7245 AUSTRIA Vienna, IS 0730 (FA).
 7245 RSFSR(As) Krasnoyarsk (listed), in RR HS at 0815 (SK).
 7250 ALGERIA Algiers, AA nx at 0730, recent NF (BP).
 7255 NIGERIA VoN, drum IS *0530, vernacs (FH), EE 0600-0630 (AEL).
 7255 FRANCE Paris, N:E 0515-0530 (AEL).
 7260 COMORES IS. Moroni, in clear one day w/LM at *0330 (GC), also hrd under BBC for a couple of minutes at 0334 (RPH).
 7275 ITALY RAI, N:E 0432, 0440*. Good (NAP).
 7280 LIBERIA VOA-Monrovia, EE Bkfst Show 0445-0505, good (AEL).
 7285 JAPAN NHK, Jap/EE lesson in HS hrd 0810 (BC).
 7285 POLAND Warsaw, hrd w/EE tlk at 0325 (CDM).
 7300 ALBANIA Tirana, IS 0128, N:E 0130. Fair (LKM).
 7310 USSR RM, nx and cmtries at 0430-0500 (MM).
 7315 ALBANIA Tirana, SS but AA mx hrd 0124 (WT).
 7345 CZECH Prague, jukebox show 0130 (WT), IS, ID, N:E 0300 (JWP).
 7478 CLAND LV Pathet Lao, tlks in Lao 1245, revol songs (TS).
 7520 CLAND Soldier's Radio (USSR), CC at *1045, ID, tlk, 1053* (LM).
 7652 TURKEY Diyarbakir, nx in lang 2000-2030, strong but poor quality (BL). Have never seen this rptd before (Ed).

- 8404 CLAND R. of the S. Yemen Revol, clear ID 2101 when jammer off, anthem to 2104*. Useless to 2102, then fair (LM).
- 8630 LIBYA Tripoli, AA tlk 2335, RPTY QRM (JF).
- 9009 ISRAEL Tel Aviv, nx, mx, nx headlines 2118. EE (JDT).
- 9462 PAKISTAN Karachi, oriental mx 1930, fair (BL).
- 9475 EGYPT Cairo, N:E 0200. Exc (HSt). Mailbag 0300, nx, 0328* (GB).
- 9500 ALBANIA Tirana, N:E 1930, fair (FH).
- 9505 CZECH Prague, Czech cmtry 0950 (BF).
- 9505 GUAT TGNB, recorded mx 0021, ID 0030 (MW), EE rel prgm 0330(BM).
- 9505 SUDAN Omdurman, AA mx 1920, bad noise lvl (MD).
- 9510 VENEZ R.Barquisimeto, SS ads, ID 2330 (TBA).
- 9515 TURKEY Ankara, *2200 in EE, nx and cmtry (FH).
- 9520a FRANCE Paris, FF nx at 0000 (JWP).
- 9520 PAPUA Pt.Moresby, ID 0745, good sig (RR).
- 9520 PERU R.La Cronica, ID and ads 1149, SS, poor-fair (AAM).
- 9525 CUBA Voice of Vietnam hrd 0740 in EE (TJ).
- 9525 INDIA Delhi (listed), EE pol tlk, mx at 1830. Noise (MD).
- 9530 JAPAN NHK, IS and IDs 0856, lang nx 0900 (NAP).
- 9535 INDIA Delhi, N:E 0200, ID by gal. Fair (BL).
- 9535 SWITZ SBC, vy weak w/mx box IS 2300, N:E 0130 (JWP). N:E 0155, off 0158 (GB). N:E 0400, then Swiss Merry-go-Round (TJ).
- 9540 CZECH Prague, IS, ID 0100, N:E (JWP, WT, HSt).
- 9540 N.ZEALAND RNZ, no strain in EE 0800, ID and pops (TBA).
- 9540 RSFSR(As) Re 2/72 LR, time of logging should have been 2100(SK).
- 9545 W.GERMANY DW, EE to NA hrd at 0333 (TJ).
- 9545 LEBANON Beirut, ID 0230, cmtry (CDM, MM, NAP).
- 9550 BELGIUM RFB, "Belgium Spkng" 2305 (MM), N:E 2305 (RBO), FF to 0050, EE to 0100, then back into FF (BM).
- 9550 NORWAY Oslo, EE nx and cmtries at 0200-0230 (MM).
- 9555 EL SALVADOR R.Nacl, hrd 0935 w/election results 2/21 (BF). Also hrd at *1210 w/pop mx (TS).
- 9560 JAPAN NHK, Genl Overseas Svc weak w/EE ID at 1315 (MW).
- 9570 CHILE R.Portales, LA mx and tlk at 0500-0530 (MM).
- 9570 AUSTRALIA RA, stocks to S.Pac 0805 (TBA), nx, cmtry 1200 (HSt).
- 9570 NIGERIA RTV-Kaduna, mx, TCs, N:E 2200, mx 2210, 2215* (JF).
- 9570 POLAND Warsaw, dance mx 0625 in HS, //7180 also hrd (BF).
- 9575 ITALY RAI, nx 2025-2045 in EE (MM), N:E 0105, good sig (GB).
- 9580 MONACO TWR, *1630 in Lithuanian, mixing w/BBC (BF).
- 9580 NORWAY Oslo, IS 0055, ID 0105, then N:E. Fair (HSt).
- 9585 FINLAND Helsinki, EE to NA 0215-0228*, Mon-Fri, good (NAP).
- 9595 W.GERMANY RFE to 0034* w/anthem, probably Hungarian (CC).
- 9600 CLAND R.Sparks hrd frm 0945 f/in w/Mandarin tlking, ceases abruptly 0951. Much jamming (SK).
- 9600 MEXICO R.Univ.Nacl hrd xmtg full day on 2/24, relaying MW/FM, xmtr in bad shape so will be on sporadically (GC, GH).
- 9600 UZBEK R.Tashkent, IS, ID, nx 1300, in Hindi. Fair-good (AAM).
- 9610 AUSTRALIA Perth, EE pops, ID, TC hrd 1357-1410 (RD).
- 9615 CANADA CBC-Sackville, tests to Japan 1030-1045, EE/FF/Jap anmts, //5980. Tests now over. Will a regular svc ever begin? (BF).
- 9615 ECUADOR HCJB hrd in EE at 0200 (GB).
- 9615 VATICAN VR, EE at *0500, mx, off 0102 (GB).
- 9620 YUGOSLAVIA R.Belgrade, EE 2200, //6100. Into FF 2215 (BM).
- 9625 CANADA CBC, hrd 0200 (GB).
- 9625 ISRAEL IBA, good at 2129 w/IS, FF ID, nx (CDM).
- 9630 ITALY RAI, N:E 0350, ancng // 9710, 11905 (ER).
- 9635 THAILAND Bangkok, *0930 w/chimes, anthem, nx, //11905 (BF).
- 9655 JAPAN NHK, 0550 w/Jap tlks in HS, lite clas.mx, ID 0600 (RBO).
- 9655 SYRIA Damascus, N:E 2030 (AAM, RWP), IS 2108, FF 2110 (FH).

- 9660 ALGERIA Algiers, NF, AA nx 0700, all over Brisbane (BP).
 9660 CLAND Voice of Lib Army (USSR), in CC at *0930, ID, tlks (LM).
 9660 VENEZ R.Rumbos, SS mx 1025 (CC), ID and LA mx 1151 (AAM).
 9670 NETH.ANT TWR, EE rel tlk 0815, ID 0830, RM in backgd (RBO).
 9670 PORTUGAL IBRA Radio, EE ID 1915, into GG, EE rel prgm 1930 (ER).
 9670 PORTUGAL R.Stephanus Botschaft via RTE, *2045-2100* in GG on Mon-Wed-Fri (SD).
 9675 POLAND Warsaw, EE tlk 0323 (CC), N:E 2008 (MW).
 9685 ALGERIA Algiers, AA 0610, //9660, 6080, 11810 (BM), "Voice of the Storm" 1907. AA ID 1907, into chants, //9660 (ER).
 9690 ARGENTINA RAE, EE at 0300-0315, but useless (BM).
 9690 CHILE LV Chile, march at *0955, calls, fqys (BP).
 9690 S.AFR RSA hrd in EE at 0025 (GB).
 9695 TRUCIAL STATES Abu Dhabi here w/120 kw xmtr frm *1000, but not hrd because of RFE. Otherwise a clear channel (LM).
 9700 BULGARIA Sofia, EE at 0000 (GB), ID 0100, folk mx (HST). Also at 0414 w/a greenhouse prgm (V*).
 9700 FRANCE Paris, SS to SA at 0100, recent NF (BP).
 9705 MEXICO R.Mexico in Jap 1536, also SS. 1st part of March (GH). EE IDs 0000, big power (RWP).
 9715 PHILIPPINES FEBC, hrd at 1705* w/ID and anthem.
 9720 CEYLON Colombo, anthem 0058, EE ID 0100, then pops (RWP, JF). EE coml prgm 0215, no IDs (NAP).
 9730 E.GERMANY RBI, N:E 0110, IDs, DW QRM at 0115. Poor (GB).
 9735 W.GERMANY DW, EE at 0130, nx, cmtry, feature (GB, WT).
 9745 CANADA DW relay, EE/FF CBC IDs 0156, then DW IS (JF).
 9745 IRAQ Baghdad, pop mx 2131, FF 2135. Some QRN (ER).
 9745 USSR R.P&P, off at 0430* in SS (TS).
 9745 SWEDEN Stockholm, N:E 0520 (TJ).
 9750 PHILIPPINES SEARV now sked here in Mandarin 1300-1345 (BF).
 9775t CLAND Voice of Truth (Bulgaria), useless 1016 (LM).
 9760 PHILIPPINES VOA-Tinang, N:E 1309 (AAM).
 9760 USSR RM, N:E, cmtries, mx 0500-0520 (MM).
 9765 USSR RM, GG nx to Eur 1000, late for 3 m Europeans (BP).
 9770 AUSTRIA Vienna, FF into GG at 2330 (JA), N:E 0032 (WT).
 9770 Unid. at 1038 w/rel mx, gongs 1100. Probably 4VEH (CG).
 9780 ALBANIA Tirana, nx and mx 0000, EE, to 0030v* (GB, TJ, LKM). Peking relay at 0110 w/N:E, mx (GB).
 9790 USA WNYW, rel tlk 2000, EE, poor-fair (AAM).
 9790 USSR RM, CG lang prgm 1228, IS 1230 (TS).
 9805 EGYPT Cairo, mx, EE cmtry 2240, jammed to 2258* (NAP).
 9810 USSR R.Vilnius prgm, IS and ID 2330 (TS).
 9833 HUNGARY Budapest in EE to NA at 0100, poor (JWP). No REI (LM).
 9860 CHINA Peking, hrd at *1201 (TS).
 9870t BANGLADESH Dacca, N:E 0305, native mx, 0415* (TS).
 9900 CHINA Peking, hrd at 1158* w/Internationale (TS).
 9912 INDIA AIR hrd w/N:E to Oceania at 2100 (PF). Mx 2150, ID 2200, N:E (FH). Also hrd poorly in EE at 2230* (CG).
 9915 ENGLAND BBC, ID, IS, Persian 1615 (RBO).
 9989v CLAND VoFUNK, now 1100-1159, 1300-1358, and at 0000, //10080(LM).
 10000 HAWAII WWVH, hrd at 1403 mixing w/WWV (DL).
 10010 CLAND R.Liberation, FF 1415, EE 1430, Lao 1500. Fair, many IDs (MH). Fair in lang 1923 (SK), FF 2300, EE 2330 (LM). Also hrd in FF at 2020, and w/N:E at 2330 (ER).
 10040 N.VIETNAM Hanoi, FF nx 1335, exc sig (ER).
 10080 CLAND VoFUNK w/gal in lang 0010, ID and mx 0030. Good (BL).
 10217 CLAND R.Liberation, in Viet HS 1415-1659* w/IDs, nx, mx (LM).

- 11605a CHINA Peking, vy weak, unid. lang at 1915, fast f/o (MD).
 11620 INDIA Delhi, indigenous mx 2017, then EE nx in GOS (FH).
 11630 EGYPT Cairo, AA chants, M&W ancrs, weak at 1910 (MD).
 11672 PAKISTAN Karachi good at 1945 w/N:E or a tlk (FH).
 11675 CHINA Peking, EE cmtry 0040 (MW).
 11695 CLAND R.Peyk-e-Iran, lang anmts, tlk 1625, exc sig (ER).
 11701 USSR RM in CC, ID 0028, then R.F&P 0030, IS, ID. Asian site(LM).
 11705 CHINA Peking, EE to ECNA 0000-0050, pol tlk. Clear, good sig(HSt).
 11705 VATICAN VR, EE rel nx 2210-2222, //7250, 9610. Good (JA).
 11710 ARGENTINA RAE, FF ID hrd in passing at 2014 (FH). Hrd 2300 in EE, but poor (JA).
 11705 SWEDEN Stockholm hrd in EE 0330 to WCNA, NF ex-9725 (RBO).
 11710 INDIA Delhi 2305, poor e/N:E, ID 2310, cmtry (CLM).
 11715 ALGERIA Algiers, *0900 in AA, additional fgy this time (BF).
 11715 POLAND Warsaw HS hrd 0850, clear till Algiers comes on (BP).
 11720 BRAZIL R.Nacl, fair 0330 w/pop mx (TS).
 11720 VATICAN VR, fair 0050 w/EE rel nx (WT).
 11720 ZAIRE Kinshasa, Afr/FF anmts 0120, //15245 (BP).
 11725 VATICAN VR, *2330 in SS to SA, recent NF (BF).
 11725 VENEZ R.Nacl hrd w/symphony at 1229, SS anmts (AAM).
 11730 HOLLAND RN, EE feature prgm hrd at 2214 (WF).
 11735 MOROCCO RTVM, EE 1700-1800 (ML), EE ID 1700, clas.mx (BM).
 11740 CEYLON Colombo, N:E, cmtry 0113, weak under HCJB (HS).
 11740 USA VOA-Bethany, ID at *2214, in o SS (CDM).
 11745 ECUADOR HCJB, exc w/EE tlks, mx 0140 (HS), strong 0215 (DL).
 11765 AUSTRALIA RA, 0755 to Aus & Pac (TJ).
 11775 SPAIN RNE at *1100 in SS, new SA svc for morning reptn (BP).
 11780 N.ZEALAND RNZ, EE 0725 (BG), N:E 0800 (TJ).
 11785 MADAGASCAR RN-Talata now here 1400-1520, ex-15260 (EU).
 11793 CLAND Voice of Lib Army (USSR), CC ID, anghen, tlk, ID, anthem. Strong, over jammers 1400-1408, less good 1245-1253 (LM).
 11795 BRAZIL R.Nacl, PP ID and mx hrd at 0042 (MW). Pops 2356 (ML).
 11800 CEYLON Colombo, Hindi coml svc vy weak at 1435 (MD).
 11805 BRAZIL R.Globo, PP mx, TC, ID 0044 (MW), PP pops 0141 (CC).
 11810 INDIA Delhi, EE nx and mx frm 1330 (JFR), EE clas.mx and nx cmtry 1350-1430 (BM), tlk and mx 1400 (BK), to 1500* (JDT).
 11810 CLAND PP Voz de Libertad via Algiers, 0020 s/on, sig varies but okay till TWR s/on. //6080, 9510, 9685 (LM).
 11815 JAPAN Tokyo, nx and cmtry 1330, clear and readable (HSt).
 11815m POLAND Warsaw, pops 0224, EE ID 0226, Polish 0230. Poor (LKM).
 11820 ASCENSION BBC WS hrd 2042-2100 (TBA).
 11820 MEXICO Heraldo de Sonora, lite mx, ads, IDs 1500-1700 (GC), poor w/LA mx 1611 (AAM), nice sig 1930, many comls, mx (GH).
 11825 LIBERIA VOA-Monrovia, EE ID and into SS (JWF). Time-? (Ed).
 11825 TAHITI Papeete, US/FF pop mx 0630, FF tlk (LKM), nx at 0755, to 0800* (BG).
 11829 CLAND Voice of Malayan Revol, *1030 now, ID, anthem (LM).
 11835 CEYLON Colombo, N:E 1725, jazz 1730 (LKM).
 11835 HAITI 4VEH, on late, poor-good 2300-0300, fading. EE (NAP). EE rel prgm fair-poor at 0050 (HS).
 11835 ALGERIA Algiers, FF tlks and old pops at fair lvl, 2030 (TBA).
 11840 AUSTRALIA RA, mailbah 1830 (TJ), ID 2020, but poor (TBA).
 11840 MOROCCO VOA-Tangier, RR tlks at 2025, ID 2030 (TBA).
 11840 PORTUGAL Lisbon, exc in PP nx 2200 (FH), FF tlk 0215 (BK).
 11850 GHANA Ejura, EE nx cmtry 2007 (BM), off 2100* after anthem(NAP).
 11850 MALAYSIA BBC-Tebrau, EE by R 0045 (HS), full ID at 0045* (MW).
 11855 SAUDI ARABIA Djeddah in FF, jammed to 2100, then clear (FH).
 11855 USA WNYW, SS/EE svc hrd nitely w/mx, tlks (JWF). Time-? (Ed).

- 11862 ZAIRE Lubumbashi, poor in FF 2327 (CC).
 11865 CANADA DW, relay anmt in EE 0158, then GG prgmg (GC).
 11865 LIBERIA VOA-Monrovia hrd at 0515* (TS).
 11875 ANGOLA Em.Official, IS 0455, anthems, ID, PP tlks but fast f/out. No sign of Nicaragua (CC).
 11875 NICARAGUA R.Nacl, SS tlks, mx, IDs at 2310 (JWP), SS 0000-0040 (AEL), SS mx 0422 (WT).
 11880 ARGENTINA R.Splendid, SS nx 0920, blocked by NHK 0930, 11875(BP).
 11880 TURKEY Ankara, exc at 0425 in Turkish w/mx (CC).
 11890 E.GERMANY RBI, N:E 0232, recent NF (JDT).
 11890 ETHIOPIA ETLF, hymns 0552, ID and off 0557* (JDT).
 11890 PHILIPPINES FEBC at *2330, EE, ex-11920 (BP).
 11895 E.GERMANY RBI, EE 0415, then switched to GG (ER).
 11895 SENEGAL Dakar, FF play 2145 (CDM), tlks, ID 2200-2215 (TBA).
 11900a NETH.ANT RN-Bonaire, IS, then SS at 2130. Good (JA).
 11905 ENGLAND BBC at *1130 to NA, strong but badly QRMd (LM).
 11910 ETHIOPIA ETLF, EE rel show to W.Afr 2010-2015* (TBA).
 11910 MALAYSIA BBC-Tebrau, ending Nepali relay 1644, announc mailing address in Kathmandu (BP).
 11915 USA KGEI, strong w/SS tlc 0225 (BK).
 11920 ALGERIA Algiers, NF at *0900, into AA, past 1015 (BP).
 11920 IVORY COAST Abidjan, N:E 1950, FF 2002 (BM). IS 1957, ID and into FF nx (RWP, TBA), ID 2100, "Round the World in EE" 2145 (CDM). Closing in FF arnd 0000 (CC, BP).
 11920 PHILIPPINES FEBC hrd w/N:E 1155 (LKM).
 11920 RUMANIA Bucharest, exc in SS at 2230 (JA).
 11920 USA KGEI, SS, then into EE at 0430, ex-9745 (BP).
 11925 KUWAIT Kuwait, N:E 1830, good power (RWP). Jazz to 2045 (JDT).
 11925 PORTUGAL Lisbon, PP to Angola hrd at 2005 (TBA).
 11925 SPAIN RNE, N:E at 0300, good sig (WT). N:E 0203 (JWP).
 11925 UZBEK R.Tashkent, N:E 1200, cmtry 1206 (LKM), poor in EE 1403 (CC).
 11925 W.GERMANY DW, *0120 in EE to SEA (BP).
 11935 PORTUGAL Lisbon, N:E 0212, cmtry, history to 0245 (NAP).
 11935a S.AFR SABC, fair-good 0645, faded by 0700 (JA).
 11940 LIBERIA ELWA, EE ID 0614, native lang (JA). EE sermon 1930, native 1945 (AAM, BF), EE tlc 2015 (BK).
 11940 RUMANIA Bucharest, EE w/mx at 0436 (CC).
 11950 BRAZIL R.Min.Educ, clas.mx and ID 0135 (CC), clas.mx 0208(RPH).
 11950 SEYCHELLES FEBA, EE ID 1659, then Persian (RPH). EE and AA *1656-1900* (TBA), AA 1804 (LKM), EE 1730 (AEL).AA 1840 (RWP).
 11955 CYPRUS Limassil, EE to India, nx. Fair (HS).
 11955 LIBERIA VOA-Monrovia, Polish 1947, into Czech 2000 (TBA).
 11970 S.AFR RSA, ID 0230, N:E, exc sig (LKM).
 11975 GRENADA WBS, EE speech, ID 0030, good lvl (MD). EE play at 0035 (HS), EE election info 0054 (MW).
 12000 RSFSR(Bu) RM via Armavir (listed), EE to Afr 1945 (TBA).
 12005 EGYPT Cairo, AA tlc, clear sig 1850 (MD). Chants 1545 (LKM), strong AA cmtry 1900 (BL).
 12080 CHINA Peking, N:E 0100, weak (TJ), vy good 0340, NF, also // 15060, 15095 (LM).
 12110 CHINA Peking, poor 2345-2356, utes, no sign of R.Liberation(LM).
 12145 MALI Bamako, hrd here in HS, FF, 2100-0002*, vy good, probably 11960 xmtr w/difficulties (LM).
 12450 CHINA Peking, CC, mx 0150-0405. Fair (LM).
 14493 CLAND R.Liberation, 1955 in Eur prgm. Songs, under jamming(RWP).
 14938v CLAND R.Free Portugal (Rumania), PP 1215, NF (LM).
 15004 USSR RID, good at 1308 w/pips, stacatto frm 1310 (RWP).
 15018 N.VIETNAM Hanoi, vy good 1300 in EE (RWP), poor 2358 (RWP).

- 15050 CLAND Voice of Lib Army (USSR), CC ID, anthem, etc at *1315-1323* (LM).
- 15060 CHINA Peking, nx 0011 (WT), closing 0054 (GB). EE cmtry 0120 (RPH, JDT). Tlk, cmtry 0200-0230 (CDM,MM,BL), N:E 0408 (TJ).
- 15080 INDIA Delhi, chants 1745, N:E 1800, cmtry 1810 (RBO).
- 15084 IRAN Tehran, Persian HS 1426 (MW), pop mx, nx 1530 (JDT).
- 15095 LIBERIA ELWA, IS 1607, opening 1615 (CDM).
- 15105 BRAZIL R.Rural hrd w/mardi gras 0035 (AAM), ID 2020, vocale (BP), IDs 2130 (BL).
- 15105 JAPAN NHK, good 0300 w/nx on Nixon's visit, EE (BL).
- 15110 NEW ZEALAND RNZ, rel prgm 0520, ID 0530, then jazz (CDM).
- 15120 FRANCE Paris, exc in FF 1835 (BG), radio play 1920, very strong. To USA (RWP).
- 15125 TAIWAN VoFC, hrd w/WCNA EE prgm *0200 (TBA), N:E 0300 (TBA).
- 15130 USSR R/S Atlantika, RR ID 1600, then M&W ancrs. Clear (HST).
- 15145 CANARY IS. RNE, SS ID 2200, apparently to SA (TBA).
- 15145 E.GERMANY RBI, EE press rvw 1844-1900, to Afr (RD).
- 15150 CHILE R.Corporacion, pops 1235, TCs, songs, ads 1258 (GH). Also SS ballads 2025, and *1000 (BP), many ads 0000-0200 (TBA), rock mx 0120, tlk in SS, but poor sig (LKM).
- 15155 BRAZIL Rdif.S.P, fair w/FP footbal broadcast (BL). Time-?(Ed).
- 15160 FRANCE Paris, *1600 in FF, to 1615 (BG).
- 15160 MEXICO XEWS, ID at 1830 during futebol game (CC).
- 1 165 DENMARK Copenhagen, Danish tlk to 1515* w/EE ID (BK). IS 1558, EE ID, Danish 1600 (BG). Danish nx 1732 (MW), EE ID 1831 (NAP).
- 15170 LIBERIA ELWA, rel prgm 2140, mx 2145 (TS), AA tlk, chimes to 2300* (BK).
- 15170 TAHITI Papeete hrd at *0230 on a Sat nite, then EE lessons(CC). Native lang 0310, easy listening mx, ads. Good sig (BL).
- 15175 S.AFR RSA, EE to Ghana 1910, cmtry, vy good sig (HS).
- 15185 FINLAND Helsinki, EE prgm 1801, nx, cmtry, mx, vy good to 1830*. Inaudible on 11755, 9555 (NAP).
- 15185 NIGERIA VoN, local N:E 0715, to 0730 close. Fair (JA).
- 151 0 CONGO ORTF-Brazzaville, FF cmtry 1910, weak. Don't mistake Havana in FF here, same time (RWP).
- 15195 JAPAN NHK, EE Genl Svc hrd at 2315 (TBA).
- 15195 MALAGASY RN-Talata, Happy Stn prgm 1310 on Sun, QRM frm RM Asian svc on 15200 (BP).
- 15210 VATICAN VR, *1620 w/rel nx to Afr in EE (JDT), close 1720* after EE, w/drums, ID. Poor then (BK).
- 15220 HOLLAND RN, FF to Afr, good sig at 1905 (RWP).
- 15235 BELGIUM RTB, *2215, into pop mx, NF ex-15255, will change to 11875 on March 5 (BP).
- 15235 JAPAN NHK, EE to NA, hrd w/nx 0220 (TBA).
- 15240 AUSTRALIA RA, end of nx 0512, then "World of Mx" (CDM).
- 15240 SENEGAL Dakar hrd w/FF ID, address at 1815 (TBA).
- 15245 ZAIRE Kinshasa, jazz 1850, ID 1900, IS (RWP). ID, mx, ads 1930-2045 (TBA), poor 0005 (CC), local mx, FF annts to 0200(JDT).
- 15250 RUMANIA Bucharest, EE to Eur 1300-1330, fair w/TWR QRM frm 15255. Good and clear on //17710 (JPR).
- 15255 SWEDEN Stockholm, changing frm EE to Swedish 1900 (RD).
- 15260 MALAGASY RN-Talata, s/on just before 1400 w/IS and ID (AAM,HS, JDT, GC, RPH, CC), hrd testing to 1445, fair at best (LM, TBA). QRM frm BBC at 1445 (BM). Happy Stn hrd 1455-1518* (MH), full Tananarive ID at 1518 close, carrier goes right off (JY).
- 15265 CZECH Prague, EE fair at 1750 to Afr/Asia (CDM).
- 15280 HAITI 4VEH, EE ID and mx 0000. QSL says is 300 watts (TBA).
- 15280 USA KGET, rel prgm 2300, EE ID, then into SS (GB).

- 15290 PHILIPPINES VOA-Tinang, EE bkfst show to SEA, 0115-0200*(TBA).
 15290 SYRIA Damascus, AA ID 0500, into chants. Nx 0515 (ER).
 15300 PHILIPPINES FEBC, new CC svc hrd 0630, //17810 (BP).
 15315 FRANCE Paris, EE to Afr 2030-2100, best 15295 // (AEL).
 15315 PHILIPPINES R.Veritas, Lithuanian 2330, NF ex-15415 (BP).
 15320 AUSTRALIA, RA, EE to WCNA frm *0100 (TBA), festival 0147 (WT).
 15335 S.KOREA VoFC, EE to WCNA on NF ex-15430, poor w/ID 0309 (LM).
 15340 PORTUGAL Lisbon, good in PF at 2000 (CDM).
 15340 USA WINB, good w/EE rel prgm 2130 (FH).
 15345 KUWAIT Kuwait, hrd at 1829* in EE (TBA).
 15345 NETH.ANT TWR, SS ID hrd 0100 (TBA).
 15355 Unid. 2140 w/melodrama, nx, cmtry, rel prgm 2210 (NAP).
 15360 MOROCCO RTVM, AA 1858, off at 1900 contrary to WRTVH (CC).
 15365 CANARY IS. RNE, IS, ID 1953, SS mx (JDF). Harp IS 1955 (RWP).
 15385 ERHIOPIA ETLF, FF ID, IS, address at 1955* (CDM).
 15410 ALGERIA Algiers, AA mx and tlk 1530, weak, clobbered by VOA at *1600 s/on, same fcy (BK).
 15415 BRAZIL R.Cl.Ribeiro Preto, mardi gras fair-good at 0014 (AAM).
 15425 AUSTRALIA Perth, fair w/nx 0045 (JPR), mx 0015, EE tlk (LKM).
 15430 S.KOREA VoFC, EE ID 0300, into nx. Weak but clear (ER).
 15435 TANZANIA Dar es Salaam, N:E 1901 (AAM), EE pop mx 1950 (CDM).
 15445 JAPAN NHK, EE tlk 0030 (MW).
 15445 LIBERIA VOA-Monrovia, to Afr w/request prgm, 1935 (RWP).
 15450 BRAZIL R.Nac.Brasilia, PP tlks 2100, VOA-15445 QRM (CDM).
 15475 EGYPT Cairo, "Voice of Arabs" weak in AA, M-E mx 1915 (RWP).
 15510 CHINA Peking in EE to ECNA *0100, vy good to 0155 close (LM).
 15510 BANGLADESH Dacca, N:E 0145-0155 (Bengali frm 0050-0145), and Bengali to 0220. IS, EE 0229-0300, Bengali beyond 0335 on Sun. Also EE 1230-1300, Bengali before that. NF ex-15561 (LM).
 15520 CHINA Peking, EE prgm on CC women at 0140 (WT).
 15560 BANGLADESH Dacca, 1234-1300* w/EE prgm, nx, history etc (SD).
 15790a CIAND Voice of Malayan Revol, lang tlks 2355, IDs to 2359* (ER).
 16320 N.KOREA Pyongyang in SS to LA, vy good at 2315 (MD).
 17490 CHINA Peking to ECNA in EE, CC revol mx hrd at *0200 (LM).
 17533 CHINA Peking, SS to LA, fair w/nx by gal 0215 (LM).
 17635 NIGERIA VoN, EE cmtry 1235, native mx, VOA QRM. Fair (BL).
 17705 INDIA AIR in EE to Afr 0345-0400 (PF).
 17720 TAIWAN VoFC, EE 0200-0320, //17780, 17890 (AEL). Local mx 0233, but 17720 best (JDF).
 17725 MALI Bamako, rock mx 1315, vernac ID. Strong (BL).
 17730 MALAGASY RN-Talata, FF tlk, weak w/QRM (MD). Time-? (Ed).
 17755 USSR R.P&P, *0400, IS and CC tlks, fair sigs (LKM).
 17785 JAPAN NHK, N:E 2300, Jap nx 2315. Poor sig (TJ). N:E 0003 (LKM).
 17790 MALAGASY RN-Talata, off 0920 after Indonesian, hrd only Sun(BP).
 17800 RWANDA DW-Kigali, GG nx 0000, good sig (LKM).
 17805 S.AFR RSA, EE prgm 0418, //15220, 11900, 9525, 7270, all hrd(RBO)
 17810 MALAGASY RN-Talata, *0927, IDs, Dutch to SEA.Peking QRM. Only hrd Sundays (BP).
 17820 AUSTRALIA RA, tone, on to Afr 0345, hrd to 0415 (PF).
 17825 JAPAN NHK, fair at *2345 w/N:E, cmtry (RPH).
 17845 INDIA AIR, IS 0355, on to M-E, to 0430 (PF).
 17845 USA WNYW hrd at 1930 (GB).
 17860 MALAYSIA BBC-Tebrau, N:E 0005, exc sig (LKM).
 17880 USSR R/S Atlantika, IS and anmt 1600, good sig (Hst).
 17895t MALI Bamako, 170301722* in EE w/native mx, EE tlks abt Afr, anthem, ID at s/off, but missed its content. On a Mon (SD).
 17920 EGYPT Cairo, EE to SEA, nx 1330 (JPR), then AA mx 1336 (AAM).
 17935 PAKISTAN Karachi, GOS to M-E, N:E slowly at 1335-1350 (JPR).

21460 BELGIUM RTB, to Afr 1100-1230* (PF).
 21475 B.GERMANY RBI, 1300-1700 f/o to W & C Afr (PF).
 21480 S.AFR RSA, N:E hrd at 1800 (WT).
 21485 VATICAN VR, to N.Afr at 1130-1200 (PF).
 21495 PORTUGAL Lisbon, Voice of West 1250, also 1700 (PF). ID at 1730, PP nx, N:E later (Hst).
 21500 CONGO ORTF-Brazzaville, 1030 f/in under Bethany to 1715 f/o(PF).
 21505 ARMENIA Erevan (listed), 1100 f/in to 1330 f/o to SEA (PF).
 21520 SWITZ SBC, f/i 1115, to 1500 (PF). EE 1315-1345, poor-fair(JPR).
 21545 GHANA Accra, Afr mx 1230, ID and abruptly off at 1240 (BL).
 21560 ITALY RAI, to Afr on weekends at 1500-1630 (PF).
 21580 FRANCE Paris, 1100-1830 (PF), EE to Afr 2030-2100 (JPR).
 21655 NORWAY Oslo, EE ID 1300, into Norw, gone by 1325 (JPR). Lang 1615, EE on Sun, good on 21730, fair on 17825 (NAP).
 21685 KUWAIT Kuwait, 1400-1530 f/o to N.Afr (PF).
 21705 MEXICO XERMX, lovely Mex mx 1732 (AAM), EE ID 2328, mx, mostly in SS (GB), also hrd 0000 (TJ).

As usual, thanks to this month's loyal gang . . .

AAM Albert A.Miller,Jr,OH/HRO500	JDT J.D.Tuchsherer, WI/Hq100A
AEL A.E.Linsenmeyer,IL/SW4A	JF John Fisher, Ontario, 636X
BB Bill Berghammer,NY	JPR James Ronda, OH/RF500
BBY Bob Bundy, Caroline Is.	JWP John Perry, IL/StarRoamer
BC Bruch Churchill, CA	JY James Young, CA/Hq100,Hq180AC
BG Bob Grieser, CO/SB310	LKM Larry K.Marshall,CA/SX190
BK Bob Kelleher,NY/SX190,HA600	LM Larry Magne, PA/R4B
BL Ben Lewis,MA/Hq180A	MD Mark Duba, VT/SX190,S76
BM Bill McGraw, PA/SB310	MH Mike Harvester, CA
BP Bob Padula, Australia/CR100	ML Matthew Lesordo
CC Charles Conner, LA	MM Mildred Marshall,ND/SX122
CDM Christopher Milly, MD	MW Mike Watman, NH/SX190
CP C. "Pat" Patterson, GA/SX99	NAP Neal Perdue, TE/SW4A
DH Dan Henderson, MD/Hq180A	PF O."Perry" Ferrell,NJ/SS-IBS
DL Don Lechthaler, MD/GR64	PP Paul W.Petersky
ER Evan Rosen, NY/SX133	RBO Richd.B.Odlin II,WA/R4B
EU Errol Urbelis, NY	RD Richd.d'Angelo, NY
FA Frank Aden,Jr, ID/DX150	RR Ralph Richards, CA
FH Fred Heutte, DC	RPH Ron Howard, MD/Hq180A,SB310
GB Gordon Brill, WI/S120A	RWP Ralph W.Perry, IL/S85,GD125
GC Gregg Calkin, MEX/SW4A,S108	SD Steve d'Adolf, MA/R530
GH Glenn Hauser, TX/Hq160	SK Steve Kamp, CA/Hq140X
GLD Gerry Dexter, WI/Hq180,R4B	TBA Thos.B.Alleman, MA/SX190
HS Harold Sellers, Ont/9R59D	TJ Tom Jeffrey, OR
Hst Howard Stevens, MI/DX150A	TS T.D.Smith, TX/GR54
JA John Alcock, FL/SX43	WT Walter Trkula, PA/S120
JAR John Reichman, IL	

And with that yours truly bids you a regretful farewell as LR editor. Pressing business and personal commitments have left me little choice but to pass on the baton, in this case to Larry Magne. Larry's address is P.O. Box 2133, Mid-City Station, Philadelphia, PA 19103. He will take over with the May bulletin, and you can be sure of a first rate job. Please support him as you have me, with regular reports. My thanks to all those names we see every month--in the final analysis they and no one else are the ones who keep LR on top. Hope you'll see my name among them regularly. Good DX and 73 -- and see you in Boston for the ANARC convention this summer! Adios for now . . . JB

FLASHSHEET

- Al Niblack, Editor, 420 Shelby Street, Vincennes, Indiana 47591...DEADLINE 23-rd
- ALGERIA This one heard on 7250 and 7145, AA and mx, 2316. (Bill Whitacre, Mich.)
- ARAB AMIRATES 6040 (TRNF) Dubai heard with Koran singing through and after DW IS at 0250 to 0259, when VOA cuts in FLASHES Ed Shaw, Va..Now Dubai Boasting Station, this one in the clear 0248-0300, Arabic Prayer, chanting, probably Koran reading, 6040, confirms Dan Henderson, Md.
- AUSTRALIA 6160 Darwin Relay here, replacing 6055, S/on 1500 with ABC News(August Bal-
AZAD KASHMIR 4730 Heard 1125-1131, ID by YL in language, weak(Bil' Whitacre) / bi)
- BAKGLADESH 15520 RB, Dacca, now returned to this freq, though for a y on 15560; H.S. 1100-1220; EE Overseas Svc 1230-1300. Good reception in Japan. Also amos //11805, but not detected. Also, 9880 has moved to new 9855A, S/on 1315.(Hiroatsu Matsumura, ...R. Bangladesh heard with native mx 0135; 0145 EE ID, followed with / Japan) news in EE. An exciting catch for me! (Ed Insinger, N. J)..This one QSLed with perfect letter with all details, for 15520(armed). They reply rapidly, mine came back in 13 days! (Dan Henderson)...RB, Dacca, complete QSL in 17 days, signed by Installation Engineer. Quite cordial. (Al Niblack)
- BRAZIL 15415 R. Cl.Ribeirao Preto, LA rhythms, USA pops, in the clear 2335(Ralph Pen-
BURMA HBS replaced my letter with a card QSL. Evidently Mr. PeKyang at Embassy/ry, Ill. has been pulling strings. Card looks a little shop-worn but happy to have(Ralph Perry)
- CHILE 15150 R. Corporacion, QM SS mx 0015, great lvl by 0100 daily. (Ralph Perry)
- CHINA (PR) 9860 Peking with extended sked, EE 1400-1800, for years on this freq(August
COLOMBIA 4845 R. Bucaramanga in SS at 0040, new for me. (Dan Jamison, Ky.) / Balbi)
- CONGO IS 7260 ORTF, Moroni, logged under HBC and Minsk; mainly continuous chants from 0335-0400, then time pips, fair strength but heavy QRM. (Fred Heutte, Washington, D.C.)
- CONGO (R) 21580 R. Brazzaville relays ORTF EE 2030-2100, new schedule//15190.(August
DOMINICAN REP Radio Television Dominicana, HISS, reactivated its 9505 freq / Balbi) transmitter since about the last week of February. This is 50kW but maybe not running full power. This has been done to help Dominicans abroad to hear home news. (Cesar Objic, Dominican Rep.)(Welcome back, Cesar, Editor)..Onda Musical on 4775, many SS IDs 2330, gud sigs. (Ed Insinger)..4962 Radio Antillas closes 0500A, all SS. (John Tuchscherer, Wisc.)
- EGYPT, ARAB REP Cairo vy strong in AA on 15055, at 1545. (K.A. Elliott, Mo.)
- ETHIOPIA 11910 RVOG in EE news, cmntry, mx, 1930, poor to fair lvl. (Ed Insinger)
- GUINEA (EC) R. Bata heard best ever, 4926, 2200 S/off, no QRM, ID as WRFVH. (Ralph Perry)
- HAITI In a QSL for 1/2/72, 47EV, states their power is 2500 watts yet. (Ed Insinger)
- HONDURAS (BR) (FLASH) R. Belize noted 3300, returned to the air, 0245 in EE. (Jim
HOLLAND This from R. Nederland: "On the great day of the celebration / Young, Calif.)
 proper of our 25th Anniversary, April 15, we shall follow up the news and spotlight
 with an elaborate feature show on 25 years of R. Nederland activities". (Ed Insinger)
- INDIA AIR weak at 1551 on 15080 in language. (K.A.Elliott)...AIR, GOS, in EE to SEA
 on 15335, nice lvl, easily readable, EE S/on at 1330, into news. (Ed Insinger)
- INTERNATIONAL WATERS RNI QSLed my report for 6205, for March 24, 1971, via letter
 just received. Signed by Miss E. Pfister.(Fred Heutte, Jr.)
- IRAN 15084 R. Iran S/on at 1541 in Farsi a recent check shows. (K.A.Elliott)..Te-
 herzan, 15084, good in Farsi 0630-0830; FF at 1830 on 12017. (August Balbi)...R. Iran
 gud lvl 1520 with exotic mx, 15084. (Ralph Perry)
- IRAQ 7240 Baghdad observed with IS, S/on 0500 in AA, with, "Voice of the Public"(Bal-
KOREA (N) R. Pyongyang being heard on 6580 replacing 6540(6540 still / ph Perry)
 airs Japanese Svc), with EE at 0800-0850; 1900-2000. 3560//6580 at times. (Bob Bundy,
KOREA (S) VOJK on new 15335, a move from 15430, EE news at 0300-0330 / Caroline Is.)
 S/off, says August Balbi.
- KUWAIT R. Kuwait's new freq for Europe is 11845, noted around 1900-2100, with excell-
 ent reception, pops, IDs on the half hour. (Fred Heutte, Jr.)

LIBYA The CE of the Libyan Boasting Svc reports that he is eager for good reports on the 8630 outlet—This is your chance. (Dan Henderson)

MALAGASY "M" Relay good 15260, from 1515 e/down of EBC until the S/off at 1520, local ID heard. (Ralph Perry)...M Relay, 15260 heard at 1518 S/off with full ID, informs Jim Young...Received QSL from Madagascar Relay. (Ed Insinger)...RN M Relay strong 1430-1520, 3/16. (August Balbi)

MALAYSIA 15435 BCOFES, Tehran, good 2340 with news, comments in EE. (Ralph Perry)

NEW ZEALAND 9520 RNZ, 0850, IS of the Bellbird, 0900 S/on, in EE, nice. (Ed Insinger)

NIGER 9702 Niamey noted 0800 with FF ID, This Sunday morning only. (Ralph Perry)

NIGERIA Lagos, 15185, EE news 0700; at 1630 EE news on 15120 currently. (August Balbi)

PARAGUAY 5273 R. Nacional definitely here with SS ID at 0005. (Dan Henderson)

PERU 4840 R. Atlantida heard in the clear 0415, Romantic mx, plenty SS IDs (Dan Henderson)

PORTUGAL (Via DW DX Prgm) "Beginning March 26, Adventist World Radio Europe / son) will start SW tests on 9670 to selected areas of Europe and North Africa over facilities of R. Trans-Europe, Sines, Portugal. QSLs will be sent to anyone reporting reception, though reports from countries involved will be especially solicited. Reports should be sent to The Voice of Hope, P. O. Box 5409, Paris 9, France: (M.R. Leonhardt, Ind.)

REUNION 2446 ORTF, St. Denis, definitely heard with S/on at 0230. Veery week sigs, but their format, FF amots, IM, into news in FF. (Dan Henderson)

SABAH 7180 Heard at 0930 with ID, "Inilah R. Malaysia, Kota Kinabalu", then into a local dialect. This was //4970, not 4895 as indicated in March FS. (Bob Bundy)

SAUDI ARABIA Djeddah noted 1945, 11855, with an EE ID, after mx prgmg. (Fred Heutte, SARAWAK R. Malaysia, 4950, noted in EE at 1205, YL ameing. (Bill Whitacre) / Jr.)

SEYCHELLES 15230 A new fgy, replacing 15270, for FEBA, EE to 1645 S/off. (August Balbi)

SIERRA LEONE 3316 RSL at 0700 with EBC news rly, then local EE ID (Ralph Perry) / bi

SWAZILAND (TENT) 6155 Swazi Radio probably the one under Austria at 0400 S/on with G&W music, but little chance of ID, as Austria peaking 40 over 89. (Dan Henderson)

SO AFRICA 4965 SABC Internal Svc at 2100, good lvl, detailed WR, S/off 2115 (Ed Insinger)

SWITZERLAND 21585 SOTTENS 500kw sked 1515-1730, fair lvl. (August Balbi) / er)

QATAR 9570 A definite IS at 0227 on a Saturday night, exactly as WRTM format for Doha. Pleased! (Ed Shaw)...Doha heard here at 0238 with Arabic prayer. Good lvl when Bucharest not here. Otherwise, severe hetrodyne between the two. (Dan Henderson)

TAIWAN 7200 Voice of Righteousness, 1059 with choral anthem, YL Chinese ID, 1100A. Only poor to fair lvl, QRM de AROs. (Ralph Perry)

URUGUAY 15273 SODRE heard 2350-0040 with classical mx, SS amots. Fair signal but squeezed, also soft modulation, some fading. (Ralph Perry)

USA WJNB now on 15295, from 2100 to 2245, replacing 15340. QRMed by TWR, Benaire, and HCJB, they were better off on previous fgy. (Ralph Perry)

USSR R. Moscow via Minsk (BYELORUSSIA SSR) on 9650, fair lvl 0000 S/on. (Ralph Perry)

VATICAN 15330 VR testing, EE 0730-0800; 0850 in language to Africa, 3/16. Each well heard. (August Balbi)

VENEZUELA 5030 R. Continente has exceptional strength around 0300, when noted with a long ID, amots, then news in SS. (Fred Heutte, Jr.)...3325 Radio Monagas closes at 0700 in SS. (John Tuchscherer)...R. Libertador, 3245, noted well 0630, 0845, with soft music, SS IDs. Maybe all nighter on week-ends. (Ralph Perry)...Today I received a registered letter from R. Nacional de Venezuela; contained full data verification and a 16" red and green pennant, a real nice one! (John Banta, N.Y.)...Dan Jamison reports the same quite happily, says the pennant that R. Nacional sends is a beaut.

VIETNAM (N) QSL in for 27 Nov reception on 6376. All details, plus handwritten notation... "It was the Tay Bac station which you have heard", FLASHES Don Jensen, Wis. Is this the first verie of one of the N. Viet regionals, asks Jensen?

VIETNAM (S) 6165 WTVN, Saigon, heard at 1212 with mx and YL amoz in native. (Bill Whitacre)...This outlet has been good lvl most mornings here in So. Indiana, with checks around 1145-1200, when are peaking, 6165. (Al Niblack)

FEBRUARY: SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 3-4-72. 1-53, 2-52, 3-39, 4-46, 5-49, 6-40, 7-49, 8-59, 9-58, 10-57, 11-57, 12-62, 13-73, 14-89, 15-108, 16-137, 17-137, 18-146, 19-162, 20-159, 21-156, 22-167, 23-141, 24-120, 25-93, 26-88, 27-79, 28-88, 29-91. MEAN--91.6

PREDICTED: MAR-53 APR-52 MAY-50 JUN-48 JUL-46 AUG-44 (Grady Ferguson, No. Car.)

ACKNOWLEDGEMENT: Gracias to all, please keep the reports coming. Due to an emergency it was necessary that we go to press this issue on March 21, rather than listed March 23. Effective immediately the coming deadlines will be the 20th of each month, please note. Call last minute flashes to 882-3976 after 2200 GMT....To all Vy 73, AL

A.N.A.R.C. REPORT

Rocky Mountain DXers Association and Batesville Shortwave Association Merger. After discussing merger for quite some time, the fact is certain. The combined club membership is over 60 at present, so will undoubtedly apply for full ANARC membership soon.

Frequency Recommendation Committee. The geographic base of the committee has improved with the addition of four new members in diverse quadrants of the country; Bill Berghammer and Arthur Getzel of New York; Werner J. Selby in Southern California and Tony Marks of Oregon.

Committee chairman Glenn Hauser has urged the ORTF to begin an English service to North America and has offered the services of the FRC in finding a clear set of freqs. He has also offered Venezuela's new international service, now testing, the FRC's assistance, and a preliminary inquiry has been sent to R. Thailand concerning the possibility of a retimed North American Service.

QSL Committee. Committee chairman Edward J. Pyatt reports that letters requesting more timely and better defined verifications have recently been sent to Radio Mogadishu in the Somali Republic; Radio Fiji; R. Encarnacion in Paraguay; Radio Splendid in Argentina; Radio SODRE in Uruguay; and Radio Maldives.

1972 ANARC Convention. No more word has been received to date other than the site chosen was Boston, and that the time period will most likely be the second half of July 1972. Please begin making early arrangements NOW!! I know most of you think there is a need for lots of money to go to a convention, but it isn't so. Besides, the amount of fun more than makes up for it - I guarantee it. Get up a car pool, grab your suit, and roll on into Boston for a couple days of foolin' around. Get to meet some of the dudes you only read about. Join in!

A.N.A.R.C. AWARDS

ANARC Awards Chairman Dan Ferguson has asked that nominations be submitted for your choices of ANARC Man of the Year, and others whom you feel should receive ANARC's Merit Award. Nominations are due very shortly, and therefore I ask you to act now to signify your intentions. Fill in the below portion, detach and mail to your ANARC reporter (address below) as soon as possible. Surely there is some deserving member you feel has contributed to our hobby both greatly and unselfishly. Reward him or her with your nominations. Only one Man of the Year nomination from each member; but you may nominate more than one person for the Merit Awards. Man of the Year Awards are for sustained service, and Merit Awards are for some singular service deserving recognition. Use a facsimile of the form below if you need more. Get 'em in soon.

To: ANARC AWARDS Chairman

I nominate _____ for receipt of the following award:

Man of the Year: _____

Merit Awards: _____

The reason I believe he should get this award:(full detail please-use another sheet if necessary) _____

Send this form to:

Edward Shaw
415 No. Shore Road
Norfolk, Va. 23505

Signed: _____ Member, NASWA



RETURN TO:

Dan Ferguson
1521 Smith Road, Apt. 7
Charleston, W.Va. 25314
U.S.A.



FIRST CLASS MAIL

