

F R E N D S

The SHORT WAVE BROADCAST Journal - Since 1962

NORTH AMERICAN SHORTWAVE ASSOCIATION

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The Loudenboomer Report
The International Worldwide Continental DX Association Bulletin

To all IWCDXA Members: It has come to ye scribe's attention recently that reports to our shortwave column have badly deteriorated in quality! Therefore, with the assistance of several "friends", we have drafted a suggested policy guide for your consideration when you report your shortwave loggings to the bulletin.

We are not trying to force these guidelines down anyone's throat, but we only ask that reporters and other clubs give them their sincerest consideration. You now have the opportunity to shape up. If you don't you will never be given another chance. We haff ways of dealing with troublemakers!

First, effective immediately, we are putting into effect a comprehensive and new language abbreviation list. In the past we have persistently stuck to the old, tried and true-blue abbreviations, such as ENGLISH for English, PORTUGUESE for Portuguese. You will recall that we repeatedly stated that if anyone could show us an accepted, standardized abbreviations list already in existence, we would readily accept it.

Someone has recently informed me that ANARC, whatever that is, has such a list, published and distributed by ASWLC, whatever that is, which is widely used by DXers, whomever they may be. This individual even sent me a Xeroxed copy of that list. This certain individual, who shall remain nameless for his own protection -- but he knows who he is! -- also will never be given another chance!

Needless to say, we could not accept the so-called ANARC list, as it differed markedly from my own. However, we do recognize some limitations with my own 7 to 10-letter abbreviations, so, not wishing to be hard-headedly unreasonable, we have created a new, improved four-letter list of language abbreviations. It is as follows"

Afghan-Persian	APES
Belorussian	BELI
Baluchi	TUMS
Burmese	BUMS
Bugi	FLIT
Catalan	COWS
English	PYBZ
French	FFFF
Ibibio	IBIB
Mbundu (Umbundu Group)	MBUU
Mbundu (Kinbundu Group)	MBUK
Russian	RSKY
Sinhalese	SINS
Smoke Signals	PUPF
Uiguhr	UGHH

The original abbreviation for Assamese, as submitted by our "friend" was omitted by the editor for reasons of good taste. For those with limited understanding and recognition of certain foreign languages, we will accept the following abbreviation -- XXXX -- in lieu of any of the above.

Here are some further guides to reporting. These suggestions, humbly made, are, of course, mandatory!

1. Please use one side or the other of the paper in reporting. We cannot use those written on neither side.
2. List all items in order of frequency, in either direction. That is, either 9750 kHz or 0579. It makes little difference to us.
3. Mail your reports to arrive by the 1st Monday of the month, three months in advance of publication. This deadline is firm.
4. No carbon copies of reports acceptable. Crayon, however, is ok for our younger members.
5. Exact format used in the bulletin must be followed by reporters. Reports no so submitted will be immediately burned and a burly, unemployed ex-longshoreman will be sent to your home forthwith to punch you out!
6. You must identify your reports with your IWCDXA callsign. If you don't have one, you can easily get one and we'd be delighted to tell you how! These few simple rules will make our club better and better and will, if followed, keep you out of serious trouble!

Shortwave Center



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FRENDX Visits Behind The 'Not So Iron' Curtain

By
DANIEL A. ROBINSON

There I was, stranded on the corner of Kreschatik Street in the middle of Kiev, with only a few Russian words scribbled on a piece of paper and wondering how to get to the studios of Radio Kiev.

Actually it wasn't that hard. On a recent Easter trip to the Soviet Union I had a rare opportunity (for me anyway) to visit Radio Kiev and Radio Moscow and meet the people that so many DX-ers can only picture in their minds.

My first stop was Radio Kiev. The building itself is not hard to find since the radio tower juts up directly behind it. After flashing my Radio Kiev QSL at the guard on the bottom floor, he directed me upstairs. There I was very pleased, after a few minutes to meet one of the English Department members, Maureen, and two other announcers.

We sat talking in one of the offices for awhile. They were very curious to know how Radio Kiev's signal is in Pennsylvania and whether the English Service announcers are intelligible enough.

After a nice talk I was shown to the studios. They were surprisingly small (although I'm not sure that they were the only ones in the building) and contained two control consoles and several old tape recorders. Unfortunately the day was Saturday and no taping was being done but they did cordially invite me to tape an interview which would eventually be aired on Radio Kiev on April 30.

All this finished, I said my farewells to my new found friends and loaded down with some very informative books I left the building. One of the announcers kindly escorted me to the bus stop and generously gave me four kopecks for bus fare.

The second DX stop on my trip was made at the studios of Radio Moscow. I was met on the bottom floor of the building by Mrs. Eugenia Stepanova whose name I'm sure many DXers will recognize from signatures on letters and QSLs. Mrs. Stepanova is a short woman, maybe about 5 foot 3 or something in that range, and she was very cordial.

I was given a grand tour of the building and several studios where I watched the taping of "News, Comment and Music". Everyone was
(Please Turn to Next Page)



KIEV: Radio Kiev is located
behind the black arrow.

BEHIND THE NOT SO IRON
CURTAIN (Continued)



MOCKBA



PAGUO

...very friendly and they even bought me some drinks. As told to me by my guide (who was just an announcer) it was payday and there was quite an atmosphere of conviviality in the studios.

I asked Mrs. Stepanova about the poor QSL situation from most regional Russian stations, but also bringing to her attention the recent veries from Riga and Alma Ata. She stressed the fact that lack of personnel at many of these stations prevented them from verifying reports from DXers. I got the impression that they would verify reports if they had better staffs or if the reports were sent in Russian.

We discussed many things, among them how the Radio Moscow programming was done. All Radio Moscow programs are taped in the studio. The building itself (and it is not the one they show on their program schedules) is rather old but it is incredibly big. It must have at least 20 different studios for programs (my guess) and I only saw about four when I was there. The outside of the building is not very attractive, really and the entrance is on a side street.

Everyone there spoke excellent English. As for the correspondence they receive, I did not actually see how much they get but I did get a tour of the typing and editing offices for North American and European Services. Each office has a map of the target area on the wall.

Something very interesting did happen. About five minutes after I entered the building, almost everyone knew my name.

I think the people at Radio Moscow were a bit embarrassed because they couldn't show me more of the building or tape an interview with me, but as it was I saw a lot. After being presented a book and some souvenir pins, one of the announcers, Paul, was kind enough to walk me back to the hotel which was several blocks away.

These two visits made a profound impression on me. They treated me like royalty at Kiev and Moscow and would gladly do it again for anyone who might drop in the future. The "Iron Curtain" is only as hard as people want to make it and the people behind it are really very friendly.

Hats off to my friends at Radio Kiev and Radio Moscow!

DX Tips Verification Techniques By Richard A. Schwartz

Empirically, I have noted that the following basic QSL-request format appears to be effective: use FROM/TO/SUBJECT format and include pertinent details of frequency, time, date, station, language in the SUBJECT entry. Address the QSL letter to whatever appears to be the highest-ranking station official noted in WRTM (bureaucracies are essentially the same; he will either reply himself or ask a subordinate to reply). Exude compliments re program content, organization, veracity; make positive compliments about the accuracy of stated frequency, site/station, power, time/date confirmation in QSL request. If in doubt about an official title, extrapolate one of appropriate magnitude for addressing purposes.

For technical details, include frequency in meters/kHz, S-meter reading, SINPO reporting format and other descriptive information. Be accurate about times, sign off and sign in; incorporate the latitude and longitude of receiver; mention atmospheric conditions (E-layer, sun-spot count, if available).

Describe your antenna and auxiliary equipment: Q multiplier, pre-selector, antenna, frequency meter, receiver, etc. Request frequency and site, power, time/date confirmation in QSL request.

Other techniques include: appear to be sympathetic to national polity/policy of a particular country; mention, if you have, that...
(Please Turn to Page 9 for Conclusion)

Tape Recording—An Aid To DXing

By EDWARD C. SHAW

When Al Sizer asked me about the possibility of drafting this article about tape recording, I had already finished an article about the techniques of recording DX for reporting purposes. I was pleased with the prospect of presenting such a useful article, and I have found my earlier work incorporates easily into this presentation. I hope it is useful to you. From the beginning I will explain that the article treats of recorders only for DX purposes, and no consideration has been given to expensive equipment for music or other uses.

A tape recorder is an absolute essential to the more experienced DXer, but the newcomer to the hobby will soon find this piece of equipment to be an invaluable tool in numerous ways. Some of these will be discussed later but first let me explain that there are many varied kinds of recorders, and although all can be applied to the better enjoyment of your hobby, some attention should be given to what you want the recorder for before buying one.

WHAT ADVANTAGE?

Most hobbyists use recorders for taking programs off the air for later playback. This is especially nice when one wants to share his hobby with others since it is a simple matter to tape an hour of various English broadcasts in one evening. Many of my friends have expressed pleasant amazement at the entertainment they knew nothing of previously. Our section editor, Al Sizer, introduced this idea to me years ago.

Recorders make it easy to start a collection of different interval signals and station IDs. The author has assembled over 200 different interval signals over the past three years. Recordings are so much more personal between regular correspondents. Music, SW loggings and even family conversations greatly enhance these relationships. But perhaps many will use the recorder for the same purpose I do--to report foreign DX for QSLs.

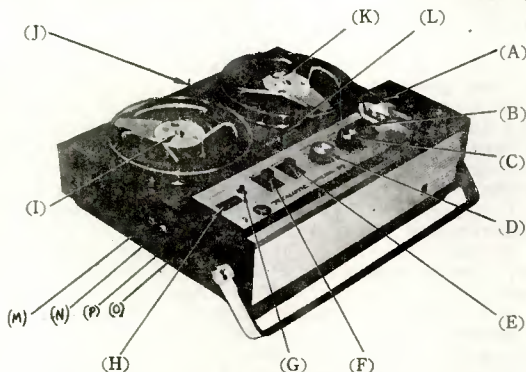
WHAT KIND OF RECORDER?

From the shortwave listening hobby point of view, an inexpensive reel-to-reel or cassette recorder seems best. So much the better if you can afford both, or even two reel-to-reel recorders. If a choice must be made, I would seriously advise taking the reel-to-reel type for purpose of reception reports. Since shortwave is monaural, it is

(See Next Page)

YOUR RECORDER SHOULD HAVE THESE FEATURES

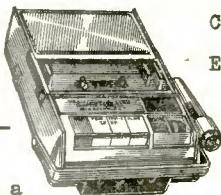
- A. Function Control
- B. Fast Forward Button
- C. Tone Control
- D. Volume Control
- E. Monitor Switch
- F. AGC Record Interlock
- G. Counter Reset Button
- H. Digital Tape Counter
- I. Left Reel Hub
- J. Capstan Sleeve Holder
- K. Right Reel Hub
- L. Head Cover
- M. Earphone Output
- N. Auxiliary Input
- O. Mike Input
- P. Rem. Control Power Plug-In



An Ideal 5-Inch Recorder
(3-3/4 or 7-1/2 i.p.s.)

TAPE RECORDING AS A DXING AID (Cont)

... a wasted expense to purchase stereo equipment--and it may even be a serious handicap, as you will soon find out. The reel-to-reel recorder should be capable of handling a 5" reel of tape but no bother if you can only afford a small one accepting a 3" reel. BUT, use caution in ascertaining any recorder you buy is not a toy, rim-driven machine. Make sure it is a capstan driven machine capable of playing either 3-3/4 or 1-7/8 inches per second. There is no problem with cassettes as they are all the same in this regard. Cassettes are especially convenient to handle since a tape can be inserted or removed at any point to continue recording a tape at the exact spot. Reel-to-reel must be wound off and on and searched to accomplish the same thing. (Editor's note: Be sure to get a recorder with a digital tape counter. Having used both, we know it makes a big difference).



CASSETTES
ARE
ESPECIALLY
EASY
TO
HANDLE

By ED
SHAW

OTHER DESIRABLE FEATURES

Your shortwave hobby recorder should be operable by either battery or house power. An external transformer for housepower will usually cost a few extra dollars but is worth it in savings over spent batteries--yet the battery option is desirable for portability.

The recorder will probably have an external earphone plug (for private listening) and the microphone will probably have a remote on/off switch built in. Try to determine if the mike on/off switch disables the entire electrical circuit of the recorder (both amplifier and motor). Some recorders are designed so that the mike switch only cuts off the motor, leaving the amplifier circuit live (which continues to use up battery power). The recorder should also have an Auxiliary Input plug receptacle to enable recording from "high voltage" sources such as loudspeaker terminals, etc. The mike input is a "low voltage" input and would seriously overload the recorder if a "high voltage" source were plugged into it. Lastly, try to find a recorder having a Monitor Switch which enables us to listen in as a recording is being taped.

HOW MUCH AND WHERE?

Anywhere between \$20 and \$100 at Allied Radio Shack, Lafayette Radio, Olsen Electronics or any number of discount chain department stores. My two Craig Model 2108 reel-to-reel recorders cost about \$25 each, less external transformers (about \$5) and they have all features except monitor switch. My GE cassette Model M8300 has all the desired features mentioned and costs about \$50.

TECHNIQUES OF RECORDING

By and large the DXer comes to that level of experience when his mailbox doesn't fill up as rapidly as it once did. The reason is usually his lack of understanding foreign languages. Perhaps his reports have had to depend more on the amiability of the broadcaster to be verified than the details of his report. What this DXer needs is to consider tape reporting. This technique permits the broadcaster to hear for himself how his transmission is received. He probably will understand better the strange fade-ins and outs, flutters and interference noises than any of us.

In tape reporting one must always make out his normal letter report, except where details of the programming are to be mentioned one needs only refer to the enclosed tape recordings. Of course, remarks as the context, interpretation and impact of the programming are of interest to the station producers too and will surely be welcomed. As a word of caution here, it may be well to determine in advance by a 15¢ air letter sheet whether a broadcaster would be willing to accept a recording for examination. The WRTH frequently makes...

(Please Turn to Page 5)

TAPE RECORDING: (Cont.).... notations of those stations known to accept recordings. Many broadcasters will return your tape, if asked and often re-record it with some folk music of the country concerned. Normally, one can expect to chalk these small recordings off as un-returnable.

As to the recording itself, we want to be sure that the best quality reproduction is made---free from outside street noises, and any other background noises such as room conversations. This is accomplished by direct hook-up to the receiver speaker terminals by means of a patch cord with alligator clips on one end and a plug on the other to fit the Auxilliary Input of the recorder---or, an easier method is to use a telephone induction pick-up coil purchased from any electronics store for about \$2. This is plugged into the recorder's mike input. The coil may be attached to one earphone and it works marvellously. A last resort is to use direct microphone recording.

The next step is to make sure an absolutely blank, preferably new tape is used. Simply trying to record over old material does not work satisfactorily, as there is a chance the middle of the tape has some signal residue remaining. Besides, we want the tape to be re-recorded only on one side. Most broadcasting stations employ equipment which reads the full width of a tape, so anything on the reverse side would be heard backwards on those machines. Try this, when recording a signal; position a small magnet on your tape deck so that the entire surface of the tape will run over the magnet as it feeds into the recording head area. This method completely erases the entire tape at the same time you are recording.

Lastly we want to send the broadcaster a tape at 7-1/2 inches per



30-Minute Cassette at left (69¢). At right, 3-inch tape reels with mailing boxes (\$1.39) (Catalogue Sales)



second. Chances are he may have ability to play 3-3/4 inches per second but it may be some inconvenience to change capstans. Radio stations normally use the faster speed for higher fidelity. If your recorder is small and has no fast speed, use the 3-3/4 inch speed and just hope. If you have two such recorders, you are in luck. Simply record the signal at 3-3/4 on one machine, change the capstan and play it back at 1-7/8 inches per second. That sounds pretty slow, doesn't it? But, record that slow sound on your second recorder at 3-3/4 inches and the result will be a tape which can be played back only at 7-1/2 inches per second. Try to find the small reels of 2 1/2 inch diameter at Radio Shack or Lafayette stores. The smaller tapes weigh less for mailing purposes.

Once one gets over the shock of paying \$1 or more to mail these taped reports, there is still the chance the QSL totals may not rise and the reason is simple. Foreign postal services, while in most cases much more efficient than their U.S. counterparts, are not as honest as Uncle Sam's finest. Particularly in Latin countries and in Asia, a letter with a lump in it doesn't have a chance. Grit your teeth, wince and reach for your wallet again---to fork over another 95¢ to register your tape letter. It helps tremendously. Yes, it can cost a bundle, but I can point out more than one QSL in my albums which may be attributed to this method.

As a final word about tapes in the mails, our post office considers these reports as a personal letter instead of merchandise and they must go for the higher rate of postage. Don't worry about the old warning about postal X-ray procedures ruining your tape. X-ray frequencies are much too high to affect magnetic recording. However, it may be well to indicate tapes are enclosed on the letter or package envelope just as a matter of policy. Good luck and good recording.

NASWA Reviews The Joystick Antenna

By AL NIBLACK



Among members of the DXing fraternity probably the question most asked is: What antenna is best for general shortwave reception?

For general shortwave listening the outdoor single wire type antenna is considered a good performer. Oh, if you happen to be an oil millionaire you might have an "antenna farm" with rotary beams cut for various bands; a rhombic; and various and sundry types of dipoles. Well, one can dream!

However, most DXers live within limitations as to listening equipment and antenna installations. The outdoor single wire type antenna gives problems when it comes to getting it into the air and keeping it in the air. Apartment dwellers and others with such problems, seeking to better their listening results, are always on the lookout for a good general high performance antenna.

This is where the Partridge Joystick Antenna (it may be mounted inside; or, outside, as it is weatherproof) enters the picture. The Partridge Joystick V.F.A. Antenna and matching A.T.U. Antenna Tuner Combination are manufactured by Partridge Electronics Ltd. of England.

The Joystick V.F.A. Antenna incorporates the advantages of such standard types as Marconi, Zepp, Hertz, the Dipole, etc. in a reduced physical size, being 7 feet, 6 inches in length. This results in a low impedance unit with a high radiation resistance in compact form, with an omni-directional pattern when mounted vertically. When used with its associated tuner, the Joymatch III A.T.U. Tuning Unit (Size: 6 inches x 5 1/4 inches x 3 inches), it becomes a multiband, high "Q" antenna with a very low SWR (standing wave ratio) of 1:1, even when used indoors. (Reviewer's Note: Do not put it simply, a short loaded antenna brought to resonance at whatever band or frequency the user wants).

The Joystick and tuner combination is sturdily built, well put together and attractively finished. The Combination can be used with either tube type or solid state transistorized receivers, no problem there. Of course, it nearly goes without saying that a good ground should be used.

The Combination can be used for transmitting as well as receiving. (Reviewer's Note: A low SWR is extremely important in transmitting as well as receiving). The Joystick will handle 2 kw P.E.P. (Peak Envelope Power). The A.T.U. will handle 300 watts P.E.P. (See footnote)

The two units go together quickly; it is only necessary to terminate the coax that feeds the receiver from the A.T.U. (If your receiver has a coax fitting, solder the proper connector to the coax cable.)

In receiving, tune the receiver to the desired band of frequencies, select the switch position on the A.T.U. that gives the best response and then rotate the capacitor knobs to obtain the highest peak, giving maximum selectivity and coinciding with receiver sensitivity (response).

ALL BAND PERFORMANCE: (With the Joystick indoors, leaned against the wall, near a glassed-in window, with the upper section of the window unscreened), it was found that signals were:

- (1) Omnidirectional (repeating what was said earlier). (Subject, of course, to the screening effects of surrounding walls and metal.)
- (2) Fairly uniform response over the tuning range of the A.T.U.
- (3) With a slight modification (made by the operator) it is possible to sharpen the tuning and produce a the same time high, sharp tuning peaks, making it necessary to "track" the A.T.U. with the receiver; i.e., for every station tuned on the receiver it is necessary to retune the A.T.U.

(Continued on the following page)

NASWA REVIEWS JOYSTICK ANTENNA----- (Concluded)

SUM-UP: After several days of intensive on-the-air checks and evaluation, your reviewer has come to the conclusion that the Joystick V. F.A. Antenna and A.T.U. Antenna Unit Combination (indoors) is as good as my outside single wire type antenna which is 30 feet long and is suspended 30 feet above ground level. The Combination will deliver all the DX that is available in any particular location.

(Footnote: The A.T.U. will handle 300 and 500 watts, according to the operator's requirements. Partridge, by the way, is protected by international patents and trade marks.)

World Holidays By Steve Sykes (Day =D,NH=National Holiday)

JULY

- (6) Malawi, Rep.D; Sarawak, Birthday of Governor. (7) Tanzania, Saba Saba D. (9) Rhodesia, Rhodes D.; S.Africa, Family D.; Argentina, Indepe.D. (10) Rhodesia, 'founders' D. (14) French Possessions, Bastille D.; Monaco, N.H.; Nicaragua, Nat.D.; Iraq, Rep.D.; Senegal, Commonwealth D. (16) Thailand, Buddhist Lent. (17) Korea, Constitution D.; Iraq, Anniv. of July Rev. (18) Canary Is., Labor D.; Uruguay, Constitution D. (19) Laos, Indep.D. (20) Colombia, NH; (22) Poland, NH; Swaziland, King's Birthday. (23) Egypt, Libya, Syria, UAR Nat.D; Ethiopia, 'Emperor's Birthday. (24) Venezuela, Liberator's BirthD.; Ecuador, Bolivar's D. (25) Costa Rica, Anexation of Guanacaste; Canary Is., St. Santiago. (26) Liberia, Indep. D. (31) Congo, Revolution D.

AUGUST

- (1) Dahomey, Nat.D; Newfoundland, Regatta D. (2) Costa Rica, Virgin de Los Angeles. (3) Tunisia, Birthday of Pres.Bourguiba; Niger, Ind. D (also 4,5,6). (5) Iran, Constitution D; Bolivia, Indep.D. (6) Guyana Commonwealth D; Lesotho, Nat.Tree Planting D. (7) Israel, Fast of Av; Ivory Coast, Bolivia, Indep.D; Colombia, NH. (9) Singapore, N.H. (10) Ecuador, Indep.D. (11) Jordan, Accession of King Hussein; Chad, Indep. D. (13) Thailand, Queen's Birthday; Zambia, Youth D. (14) Pakistan, Indep.D. (15) India, Korea, Indep.D.; Paraguay, Anniv.founding Asuncion; Congo, Nat.D; Christian Nations, Assumption. (16) Dom.Rep., Restoration of the Rep.(17) Gabon, Indonesia, Indep. D.; Argentina, Anniv.Death of San Martin. (23) Afghanistan, Indep.D (also 24,25). (24) Liberia, Flag D.; (25) Approx., Trucial States, Jordan, Oman, Iran, Indonesia, Lailat al-miraj. (27) Swaziland, Reed Dance D. (28) Laos, Buddhist Holiday. (30) Turkey, Victory D.; Togo, NH. (31) Malaysia, Nat.D.

Enough To Make A Grown Man Cry By Richard Schwartz

I informed my wife that I was shipping my SW-4A to Perry Ferrell for re-alignment. My wife, whose familiarity with radio extends to discovering the on-off switch on a small superhet, replied innocuously "Oh, good! Now your radio won't make all that noise!"

The Under \$10 Inside Antenna

By TOM ALLEMAN

... Or How To Hear Nepal From Your College Dormitory

The college student who is more than a casual SWL often faces severe problems in getting his rig set up in a college dorm. Aside from things like not having a good ground in your room (I had that freshman year) or living in a building where turning on your light switch two floors away will burst your eardrums, it can be awfully hard to find a way to set up an antenna that is both decent electrically and mechanically.

To this problem I also add two others. I am by chance a relative pauper (I had to scrape for a long time to pick up my SX-190 and my school does not approve AT ALL of outside antennas. So I had to make an antenna that would work well inside, be cheap, have a 52-75 ohm impedance, and work. With this in mind, I wandered down to the local discount electronics house over a vacation and got to work.

You will need for your antenna:

approx. 25 ft 75 ohm coax

approx. 100-125 ft stranded, bare

copper antenna wire

a PL-259 coax connector and adaptor

Assembly is simplicity itself. My wire came in 50 foot coils. I unwound one of the coils, trying not to kink the wire and threaded it through the hole of the center insulator until there were about 25 ft of wire on each side of the hole. I then twisted the wires together and gave the joint a good coating of solder (strength is important).

FIG. 1 CENTER INSULATOR

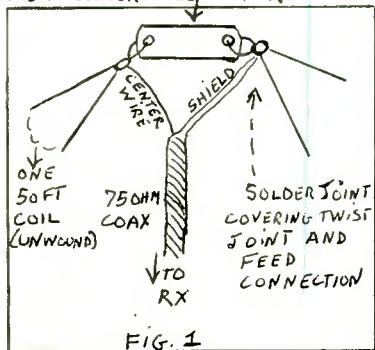
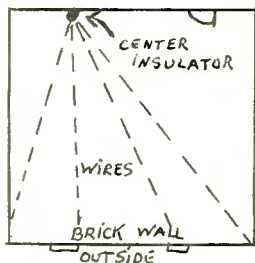


FIG.
2
MY
ROOM



a center insulator

a 3 inch by 6 inch piece of $\frac{1}{4}$ in plywood

I did the same thing on the other side. (see fig.1). Then I stripped the coax, attaching the shield to one of the wires and the center conductor to the other. These too got a heavy coat of solder. Electrically the antenna was now complete.

Then, I simply taped the completed antenna to the plywood, using a full roll of electrical tape. Leave enough space at the top of the plywood so that you can (if it is ... (See Next Page)

THE UNDER \$10 ANTENNA (Cont.)

By Tom Alleman

...permissible or possible) nail it to the ceiling moulding in your room. I have hooked the antenna to the ceiling moulding above my desk and spread the wires in a rough fan shape in a north-south direction (see Fig. 2). In the best nautical style, I then secured the four free ends to the mouldings at the other side of the room, using two small nails close together. Excess wire was simply coiled and hung on one of the nails. (No insulators are needed since the nails are driven into wood).

Mechanically, the antenna has survived two years and as many room changes. Electrically, the rig is beautiful and quite directional. My current set-up is strongly directional towards Equatorial Africa but this can be changed simply by changing walls. I have had no trouble in logging things like Radio Bukavu, Radio Cotonou, Radio Valera, any and all of the ABC outlets, ORTF, Noumea, ad infinitum. The antenna is quite broadside in its response and it is so good that I have set up a larger version at my home!

This antenna has been a real godsend, making it a cinch to do some real DXing on a shoestring.

DX Thrills

By NEAL PERDUE

In August, 1972 my "thing" was morning and mid-day listening. While cruising the 19 meter band a little after 0730 Tennessee time I came across a strange Interval Signal. It was a sort of vibraphone playing "What a Friend We Have in Jesus" followed by a man saying "This is the _____ transmitting from _____ in the Indian Ocean."

Good grief, what had he said? Would he say it again? Yes! There it was again--but I still could not make it out. Damn, no tape recorder! Quick, switch to another antenna! No better. Check the last 6 months log reports real fast--no, nothing matches up. Oh, Lord, anyone, am I going to lose this one? I know it's a good-un.

Mary, tell the kids to shut up. Please, Mister, say it one more time and I promise I'll hear it. I'll go to church every week if you just let me have this one.

Here it comes again! "Sea Shells"? What do you mean SEA SHELLS? Oh, no--oh, yes, happy day, it's Seychelles! Now I had it--"This is the Far East Broadcasting Association (or maybe it was FEBA) transmitting from Seychelles in the Indian Ocean. An English program followed and my QSL card was back in less than 2 weeks as I recall. It was my most prized one for quite awhile.

+++++

HOW ABOUT SENDING US YOUR DX THRILL? WE'RE STILL IN THE MARKET BUT DON'T MAKE THEM TOO LONG.

*** DX TIPS-- (Cont. from Page 2)**

- * ..you have written to another indigenous governmental agency in reference to the received program.
- * If you command another language personalize your QSL letter by using the particular language. For example, I have written for QSL verifications in German, Dutch, French, Italian, Swedish and have received non-IRC endowed QSLs.
- * If you have a calling card available, include it in your QSL request. I frequently include (however, not to Communist countries or disaffected African/Asian types) my card which lists my academic and military titles. This technique seems to add a certain aura of propriety. Also, it might help to indicate in the lower, right hand corner of the QSL request letter an indication that you have retained a copy for future reference and file. Q.E.D.: "cc file".
- * (Editor's Note: Some interesting ideas there, Richard, although we don't go along with all of them.)

HELP WANTED

- * Short Wave Center has a great need for stories about some of the less well known stations. We need volunteers who will write and obtain this information. They can write it up themselves or pass it along to us. That's immaterial and no problem. But getting the data is. So how about it? If you want suggestions, write to SWC and we'll give them to you. And if you're lucky enough to visit a station, get photos and "write up" trip.

On To The Top: (2)

By DON JENSEN

As stressed in the first article in this series, there is no substitute for the knowledge gained by experience.

Rare DX depends on "conditions". That goes without saying. But what a DXer comes up with when conditions are right depends, to a large extent, on the storehouse of information and know-how

he has to apply to the given situation. A good place to start is with the bands themselves. Most of the rare DX will be found in the bands below about 7 MHz, the 41, 60, 90 meter bands, plus to a lesser extent, 120 meters and the out-of-band stations. To start with, emphasize 60 meters, the single best band.

Concentration!

Concentrate your maximum listening efforts on 60. Later you can expand your attention, in a similar way, to the other DX bands. Hours: spend dozens of hours, hundreds of hours if you can, learning what there is to be heard under normal conditions, under unusual band conditions. Get to know that span of frequencies like the back of your hand. In order to get the rare ones you have to be able to quickly sort the usual from the unusual signals. When extra good conditions occur, you can't waste time on re-logs of previously heard stations when you could be coming up with new ones.

Can you, at any particular time of day, cruise 60 meters and with a fairly high degree of certainty, tentatively ID within 15 seconds, each of the stronger signals on the band? If you can't, you're operating under a real handicap!

On a good winter afternoon opening to Africa, can you tick 'em off as you tune down the line? Lome, 5047...Bangui, 5038 or 39...Yaunde, 4972...SABC, 4945....? If you CAN do this, the unusual signal should stand out, catch your attention and you can spend your time logging it.

Concentration!

Concentrate on learning as much as you can about shortwave propagation, if not from a "book larnin'" theoretical approach of view, from a practical "What can I hear?" approach. Learn to recognize and take advantage of reception patterns.

Most beginners know you can't expect low SW frequency reception at high noon local time. It is assumed you know why this is the case. There is no black magic in DXing. Propagation of DX signals depends on natural phenomena. The more you know about how and why distant shortwave signals reach you, the better you will be able to determine when to tune. There is plenty of material available for study if you only take the time and effort to seek it out.

For too long DXers have neglected this field of study. Only recently have some attempted to systematically study the matter of propagation of weak DX signals on shortwave.

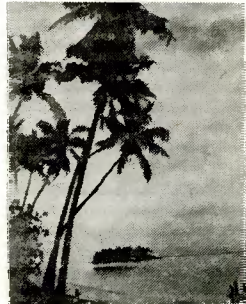
But, theories aside, careful observation and record-keeping should give you a good working knowledge of practical propagation.

Do you know, for example, the time of day, the time of year, when your chances of hearing a rare station are optimum? Do you know...

(Please Turn to Page 12)

EDITOR'S NOTE: This is the second in a series of articles on SWBC DXing at the serious level. The approach is a combination of essay and "how-to-do-it" and assumes the reader has some experience in the hobby. Proceeding from some basic questions, the articles will push into areas beyond those covered by the usual beginner's manuals.

How Can I Hear Those Really Rare Stations Reported By The Experienced DXers In FRENDX?



COOK ISLANDS---
What could be rarer DX? (Photo courtesy Pacific Area Travel Association).

Radio Moscow's QSL policy is still spotty and Cartoonist Gary Hafer wonders if there might be a reason for it. Maybe Soviet's new emphasis on relations with U.S. may bring improvement and NASWA won't have to intervene.
(hi)



Is This The Receiver To End All Receivers?

By PERRY FERRELL

The demand for extreme top-quality communications receivers is giving birth to a wholly new breed of equipment. Most of the new receivers are continuous tuning from 10, 50, 100 or 500 kHz up to at least 30 MHz. Like the Drake DSR-1, they all have direct frequency readout down to 10 Hz; but, unlike the DSR-1 these new receivers incorporate a maximum in flexibility.

Take the Watkins-Johnson Model WJ-8888 as an example. All of the usual rotary switches have been eliminated and push-buttons predominate. In fact, there 22 push-buttons and the most esoteric is "Memory". And, as the title implies, the receiver can be set up so that frequency, bandwidth, audio level, etc. are memorized as a serial 64-bit word with synchronous format.

The bandwidths available to the user are 2,3,4,6 and 8 kHz wide (push-button selections) and the sensitivity is a nice little 1.2 microvolts at 3 kHz wide. But, for maximum in convenience, the single tuning knob---there are NO BANDSWITCHES--- sweeps across the spectrum in a logarithmic fashion! If you tune slowly you can drop the tuning rate down to a single kHz per second per knob revolution; as you speed up the rotation of this single knob, the tuning rate increases so that at 2 knob revolutions per second you're tuning 10 kHz, or at 3 revolutions you're tuning 100 kHz, and at 4 revolutions you're at 1 MHz frequency change. Just about unbelievable!

What's the catch to all of this? Nothing, the receiver is now in production and deliveries are starting in September. Oh, the price, well that's not really final; but \$9500.00 is the talking figure.

EDITOR'S NOTE: It may be the talking figure, Perry, but it doesn't seem to be speaking our language. But thanks, anyway, for the story.

Passing comment

Albert A. Miller Jr., Youngstown, Ohio, comments on recent statement in FRENDX that "there are only 3 private SW stations in the U.S.A. and the FCC has had a freeze on new ones."---"As a SWler and DXer, I agree with the present FCC policy. According to WRTH there are 4367 AM and 2352 FM stations in the U.S.. If the FCC relaxed its SW policy it is conceivable that as many as 1000 stations would establish SW outlets. You can imagine the result. Only if the U.S. could arrange a SW spectrum, say 11000 to 11500, would I go along with such a change."

A Lesson In Science—PHOTONS By JOHN CAMPBELL

Radiation from broadcasting stations is not continuous; according to quantum mechanics it consists of small lumps of energy called photons which can be regarded as weightless particles.

For AM stations, a measurement of the energy E of any of these photons tells us uniquely the frequency of the broadcast. In more detail, $E=hf$ where h is the constant named after Mr. Planck in the text-books. Ordinary particles can break up into other particles, or "decay", but it is usually assumed that photons can't decay because there is nothing else for them to decay into.

This is the implicit basis for the science fiction stories and more sober speculation about other civilizations discovering the Earth by hearing our broadcasts once the photons have gotten out of the atmosphere and ionosphere where absorption is strong because there are a lot of particles around to do the absorbing, they have almost a vacuum to travel in, and can just keep on going.

As part of my work in rather highbrow theoretical physics, I have lately been looking at how photons behave in the presence of strong gravitational radiation, which in quantum mechanics can be regarded as made up of weightless lumps called gravitons. It turns out there is no reason why a photon cannot then decay into a graviton and another photon of a different frequency (which means that, as far as an SWL with a receiver tuned to the first frequency is concerned, the original photon has disappeared). The consequence is that broadcasts have only a finite lifetime before all their photons have gone.

This lifetime depends on the frequency. In patching up mathematical troubles elsewhere in my calculations, I find that I get one particular exact but complicated relation between lifetime and frequency. In the official NASWA SWBC range, the frequency of photons with the largest lifetime (about 5 years) happens to be 6207 kHz. Thus all but the two or three nearest stars may be out of range of our broadcasts and also out of range of the science fiction writers. But if there are some bug-eyed monsters on a planet of Alpha Centauri, say, it is not surprising that they have chosen not to visit us. After an accidental diet of Radio Nordsee International programming, who could blame them for staying home?

ON TO THE TOP---(Cont).... know the great circle path between your receiving location and the target DX stations? Do you know, at any particular time of year, when paths of darkness exist for these stations? Do you know when you can normally expect the 60 meter Latins to fade out and the Asians to fade in in the morning?

Do you know that your best chances to hear the domestic All India radio outlets, and the ultra rare Kashmir, will be from about mid-December to mid-January, but that Indonesian reception has a much broader seasonal "window"? Do you know that the rare quiet night in mid-summer can bring in good Afridan reception?

Keep records of excellent openings from various parts of the world. Look for patterns, daily, seasonally, geographically.

Geographical patterns can be broad or very selective. When you note the Peruvians coming in with exceptional strength, don't waste time with random tuning. Go after the specific unheard Peruvians you most want. Unusually powerful station signals from Togo? Hunt for other West Africans you need!

NEXT: More tips on hearing those rare stations.

UPCOMING: In future FRENDXs we hope to have equipment reviews of the SB 313 and the Barlow Wadley XCR 30, do-it-yourself projects on modifying the R-4B and converting a GR-54 to dual conversion, plus an exclusive feature on Radio Citadelle, Haiti and a real chuckler (we hope) by Ed Shaw and ye KD on "Great Quotes in DX History", plus a feature on HCV G8, Galapagos Islands. Be with us, ya hear?

A NASWA PICTORIAL MINI-SHOP PROJECT

The "ULTIMA" Antenna Tuning Unit

by: Danny Richardson

Description: The antenna tuning unit described in this article is basically nothing new. Such units are well known among radio enthusiasts and many schematics are found in various texts. The innovation of the "ULTIMA" unit lies in its ability to be matched to your receiver in any one of eight different ways to achieve maximum results.

The purpose of any antenna tuning unit is to provide a nearly perfect match of impedance between antenna and receiver. Most antennas simply do not require any such tuning unit because the impedance of most antennas already falls within that designed into the receiver. For instance, a simple longwire with simple insulated wire down-lead will usually be about 50-75 ohms. Most receivers are designed with such an impedance at the antenna terminal.

An antenna tuner does not electrically "lengthen" an antenna - it electrically "shortens" an antenna. For example: one antenna of half wave length for the 19 meter band may be used with the antenna tuning unit to effectively make that antenna resonate for quarter wave lengths of a lower frequency meter band.

Do not expect fantastic results with this unit. At best you will realize a few precious db gain - all important to the veteran DXer - less so to the remaining listeners who may not realize any advantages. The antenna tuning unit is not a preamplifier or a preselector.

PARTS LIST

- S-1 | Antenna Selector Switch. a Single Pole, Double Throw switch. A toggle switch type or a knife switch type is fine.
 - S-2 | Combination Switches. Double Pole-Double Throw type. They may be either
 - S-3 | toggle switch type or knife switch type.
 - S-4 |
 - S-5 | Coil tap switch. An eight-position, single pole (non-shorting) switch.
 - C-1 | Single gang variable capacitors. 365 mmfd.
 - C-2 |
 - L-1 | Home coil. Use approximately 1-1/2 inch diameter cardboard or plastic or other non-metallic tube about 3 inches long.
- #18 solid insulated bell wire. Wrap 30 turns, about 15 to the inch, around the tube and secure in a fashion that it won't unwrap. Make soldered, short wire taps at turns # 4, 8, 12, 16, 20, 24, 28. These short wires will be attached to the coil tap switch.

Knobs - 3 needed. Design of personal tastes.

Mini-box to house everything. Use screws, epoxy or other means to mount parts.

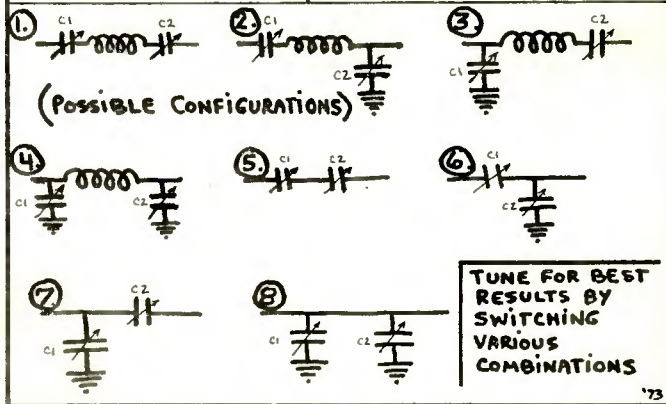
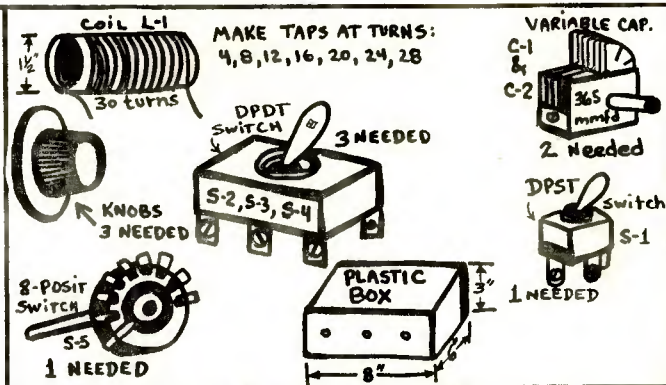
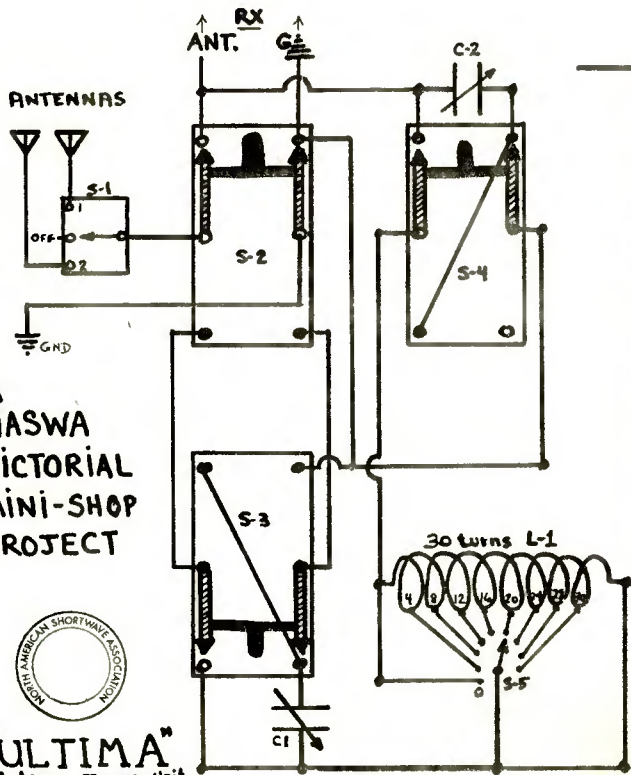
INSTRUCTIONS: How easy! Flip switches and turn knobs until you get best results.

A NASWA PICTORIAL MINI-SHOP PROJECT



"ULTIMA"
Antenna Tuner Unit

Designed by: **Danny Richardson**



QSL Report

Larry Yamron
6830 Linden Lane
Pittsburgh, Pa.
U.S.A. 15208

Telephone: (412) 361-6832

Deadline: 12th of month.

A NEW EDITOR SAYS HELLO (hi).

Hello! As most of you know, Gregg Calkin had to leave his position as Editor of QSL REPORT due to his job taking him overseas. I hope I can follow up the excellent job that Gregg has done for this section.

The Dx machine at this QTH is a HQ-180 with a Gilfer A-20 which is used only to listen to the Cook Islands! hi. In my year and a half as a DXer I have heard 96 countries and verified 75.....Last minute veries may be phoned to the above number after 0200 GMT.

QSLs RECEIVED

Many rare and interesting QSLs in this month. John Campbell, now in Switzerland reports a verie from the Clandestine, Radio Caroline Scotland. Dan Henderson sends in a copy of the verie he received from the new Columbian, Ecos De Puerto Martinez which runs 90!! watts. While other DXers report veries from Radio Nepal, Radio Kashmir, and many interesting Latin Americans.

ANGOLA: R. Clube de Lobito, card with 6 lang. non-veri. text. 1 month for EE report and 2 IRCs. (Reeves)

ARGENTINA: RAE, 9690, card in 4 months for 4 IRCs. (Megyesy) card w/full data in 4 months (Cwikla)

ARMENIAN S.S.R.: R. Yerevan, 17865, plain card in 8 months for 1 IRC. (Palmer)
R. Yerevan, 17700, card w/site from v/s Tamara Shulga of R. Moscow Afr. Svc. 46 days air. (Michalenska)

ASCENSION IS: BBC, 15260, card and sked. in 2 months air. (Gendron)

ASIATIC S.S.R.: R. Moscow, 17725, card w/full data in 23 days air for R. Moscow report form. (Mayer)

AUSTRALIA: R. Australia, 17795, Shepparton, 33 days air for 1 IRC. (Schwartz)

9580, 11 days air, 2 IRCs. (Sigler)

ABC, Perth, 9610, card w/all data and sked. in 78 days air, 1 IRC. (Burl)

ABC, Brisbane, 4920, card w/all data in 12 weeks sea mail for three IRCs (Leonhardt)

AUSTRIA: ORF, 6155, mountain card with all details in 56 days. (Self)

AZORES: Emisora Regional, 4865, boat card in 13 days for EE report and postcard from Lisbon. (Cwikla)

BOUGAINVILLE IS: RB, full veri. "data sheet" plus letter from new v/s. M.L. Hadlow sta. manager. 16 days for mint stamps. (Reeves) full veri, 16 days, 3 IRCs (Yamron)

BRAZIL: R. Clube de Ribieraço Preto, 15415, portuguese letter and station decal in 3 weeks for NASWA report form and 2 IRCs. (Gendron)

Radio Nacional, no data card in 1 month for 2 IRCs. (Megyesy)

Radiodiffusion de Pocos de Caldas, 5015. letter from Cid Chacon in 1 month after follow up. (Dexter)

BR. HONDURAS: Radio Belize, 3300, map card w/freq. and date in three months after follow up. (Calkin)

BULGARIA: R. Sofia, 9700, full data card for German svc. 55 days sea mail for 2 IRCs (Schwartz) 74 days (Caswell)

CANADA: R. Canada Int. 11860, map card w/all details in 44 days surface. (Burlaw) 6085, full data in 28 days, no IRCs. (Willshaw) 17820, card in 6 weeks (Dolyak)

CANADA: CFCX, Montreal card in 52 days for mint stamps. (King)

CFRX, 6070, skyline card in 35 days for 1 IRC. v/s. C.Eastwood. (Archard)

CHNX, Halifax, white card w/freq. only in 108 days. (King)

CKZU, Vancouver, usual card w/all data in 4 week for mint stamps. (Leonhar

CHAD: Radiodiffusion Nat. Tehadienne, full data card and sked. in 2 months for dt) 3 IRCS and EE report. (Reeves)

CHINA: R.Peking, 11945, Dancer card in 27 days. (Caswell)

CLANDESTINE: R. Atlantis International, 6260, card and personal letter in 36 days for mint stamps and report from Holland. Formerly R. Atlantis North. (Campbell)

Radio Caroline Scotland, 6280, printed card in 1 month for mint stamps Location near Edinburgh. (Campbell) attn. NASWA country list committee! ed.

R. Euzkadi, 13236, usual map card in 235 days due to overworked and limited staff. (Campbell)

C A R T E D E V E R I F I C A C I O N

Dan Henderson
217 Brock Bridge Road
Laurel, Maryland, 20810
Los Estados Unidos (EUA)

Plus verifieo your report of 13 de Abril de 1973 for
Ecos de Puerto Martinez on 5568 kcs in the 53 meter
band, from 18.43 to 19.17 hora de Colombia. Our
estación potencia de 90 watts. Antena de bipolo

27 m by x. Estacion Morada: pto Martinez o
16 m altura orillas del rio Atrato
en el Choco Colombia

May atentamente

Tecnico Propietario

COLUMBIA: Ecos de Puerto Martinez, 5568, full verie and travel folder from v/s. Oswaldo Martinez Chaverra. 42 days for mint stamps and ss report. (Henderson) SEE QSL ABOVE. ed.

Radio El Sol, 6140. no data letter in 5 days registered mail for 1 IRC.

R. Nacional, 9635, card w/out time in 2 months. (Cwikla) (Megyesy)

R. Santa Fe, 4965, plantation card w/no data and pennant with post cards

from v/s. Luisa Bernal. (Kelly)

COMORES IS: ORTF, paper QSL with date only in 3 weeks for FF rpt. and post cards, 3 IRCS. (Reeves)

CONGO: ORTF, 15190, full data letter in 1 month air for 4 IRCS (Megyesy)

LV de la Revolution Congalaise, 15190, letter w/full data in 1 month for FF report and 2 IRCS. From the "Service Technique de Radiodiffusion" (Cwikla)

COSTA RICA: TIFC, 9645, card in 17 days. (Caswell) 9645, full data, 4 weeks (Archard)

CYPRUS: BBC, card w/full data, in 21 days from v/s. Miss Pressman, no IRC. (Reeves)

CZECHOSLOVAKIA: Radio Prague, 9540, 2 cards in 155 and 98 days. (Caswell) 11990, card with literature and 2 decks of playing cards!! sea mail in 2 months. (Fino)

DENMARK: Radio Denmark, 15165, aerial card, full data in 35 days air 1 IRC (Schwart) card with all details in 3 weeks air for 3 IRCS. (Yamron)

DOMINICAN REP: Radio HIN, full veri. card w/ tourist info from v/s. Teofilo E. Vera -s in 3 weeks air for 3 IRCS. (Yamron)

RTVD, 9505, letter and pennant in 2 months for ss report and mint stamps (Cwikla)

DOMINICAN REP: RTVD, 9505, SS letter w/freq. only, 72 days for mint stamps (Mayer) 9570, letter and pennant in 2½ months sea, 2 IRCs. (Fino) 5966, SS letter but gave freq. as 9505, 3 months for 2 IRCs. (Reeves)

ECUADOR: HCJB, 11745, oil card in 1 month air for 2 IRCs. (M. Marshall) 28 days air for 3 IRCs. (Willshaw) 17755/9560, 24 and 87 days. (Caswell)

EGYPT: Radio Cairo, 9475, full data in 56 days air no return postage. (Willshaw) 53 days. (Caswell) 58 days air, 1 IRC. (Schwartz) full data card with personal letter in 2 months air, no return postage. (Fino)

EL SALVADOR: YSS, 5980, full data card in 1 month for 1 IRC. (Megyesy)

ENGLAND: BBC, 9510, Thames card in 30 days. (Caswell)

VOA, Wofferton, 15205, 7 days. (Caswell)

ETHIOPIA: ELTF, 9730, blue card w/all data and sked. in 3 months air for 3 IRCs (Duba) 51 days air, no IRCs. (Burlew)

EUROPEAN S.S.: R. Moscow, 9610, card w/full data in 23 days air. (Mayer)

FINLAND: R. Finland, 15185, full data card in 48 days air for 1 IRC, (Schwartz) full data in 1 month, no return postage. (Megyesy) 11 days air, no IRCs. (Talbot)

FRANCE: ORTF, 25630, card airmail, first QSL from Paris for 11 mb. (Padula-Austrl)

GALAPAGOS IS: La Voz de Galapagos, 3520, card and personal letter from Jorge

Navarez for 1 IRC, via air in 35 days. (Palmer)

GAMBIA: Radio Gambia, 4820, EE letter w/all data except time in 2½ months air for EE report and 2 IRCs. (Duba) form veri. w/ date only in 60 days air for mint

stamps. (Mayer) 3 mon air for 2 IRCs. (Reeves) letter w/date in 3½ months. (Cwikla) mimeo letter w/no data in 10 weeks air for 3 IRCs. (Leonhardt)

GABON: La Voz de Revolution, 4777, yellow/brown map card, 1 month for FF report. (Cwikla)

GERMANY: G.F.R., Radio Free Europe, card in 16 days from N.Y. address. (King)

GREECE: VOA, Kavala, 7270, card w/site and freq. in 42 days. v/s. Monica Vall.

(Willshaw) 7170, 9 days air from v/s. Suzy Belnap. (Mayer)

NBI, Avilis, 21460, card w/all details and sked. air in 3 weeks (Padula)

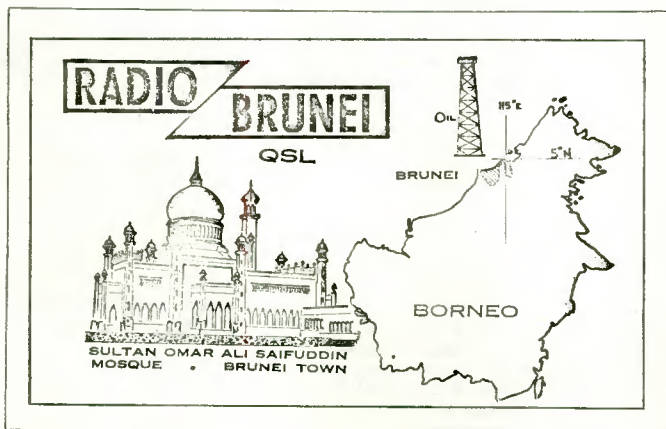
HNBC, 21610, plain card in 29 days air. (Palmer)

GUATEMALA: TGNA, 5955, card in 4 months for 1 IRC. (Megyesy) TGNB, 9505, Quetzal card w/full data in 258 days air for no return postage. (Willshaw) 9505, card

w/full data in 4 months air after follow up, 2 IRCs, plus nice stamps. (Yamron)

TGW, 6180, 2 cards w/full data in 3 months for 2 IRCs, v/s. R. Chenal (M. Marshall) 6180, full data in 2 months for 3 IRCs. (Penly)

GUYANA: GBS, Action Radio, 3290, mimeo letter w/all data, 3 weeks for 3 IRCs (Yamron) full data letter in 13 months after follow up for 4 IRCs. (Megyesy)



LOCAL GOVERNMENT RADIO STATION
 POSO REGENCY

Central Sulawesi - Republic of Indonesia

POSO, (Central Sulawesi)

October 16, 1971

To

Mr. Donald Jensen
 5204 70th Street
 Kenosha, Wisconsin 53140
 U.S.A.

Dear Sir:

With profound gladness we received your letter on October 14, 1971. We were very glad, and surprised too, since we had never expected your letter before, moreover this letter came from someone overseas, not from our own country.

Mr. Donald Jensen, we deeply appreciate your interest in our programmes broadcast from a 250 W transmitter on 9270 kc/s or 57 m. The transmitter you mentioned was the one we used. It is a Philips SFZ, with a 20 meter Delta Match antenna.

In October 1971 this transmitter is out of operation due to damage of the modulator which will be replaced soon. We hope you would not be disappointed if you do not find our broadcast during October 1971.

Mr. Donald Jensen, would you please make a contact with us on November 17, 1971 and November 27, 1971 at 19.50 local time (Central Indonesia Time)?

For the time being our station is on the air for two hours, namely from 1900 - 21.00 Central Indonesia Time.

Finally, we hope you would send us further reports on the reception of our transmissions in your area. We thank you in advance for all your interest and kindness.

LOCAL GOVERNMENT RADIO STATION
 POSO REGENCY

Director,
 (signed)

(Markus Mawuntu)

note:

- Central Indonesia Time = GMT + 8
- when writing to this station, please address the letter in Indonesian, as follows:
 RADIO KHUSUS PEMERINTAH DAERAH
 KABUPATEN POSO
 POSO, Sulawesi Tengah,

TRANSLATION BY F.C.B. ADELINARA

HAWAII: WWVH, 15000, natie card in 3 weeks air, no return postage. (Penly)

HOLLAND: R. Nederland, 11730/9590/15425/6020, cards and personal letter in Dutch from C.M. Van Aardmre, air in 30 days no IRCs. (Fino)21570, 14 days, 2 IRCs (Sigler)


HONDURAS: HRVC, 4820, full data card and sked. air in 1½ months from v/s. Cally Ereckson, 2 IRCs. (Penley)card in 3 weeks for 16¢ U.S. postage ? (Nebron)

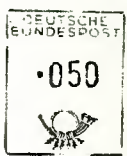
R. Progreso, 4920, full data letter and pennant from v/s. Jerry E. Tolle 25 days air for SS report and 3 IRCs (Willshaw)

R. Juticalpa, letter and pennant in 1 month for SS report, postcard and 3 IRCs. (Reeves)

HUNGARY: R. Budapest, 9833, card and pennant in 56 days for 1 IRC. (Schwartz) 6170 full data card in 49 days sea, no IRCs. (Burlew)

QSL	Transmitting hours (MEZ):
	Sun. 6.30—(Mon.) 4.45 Sat. 4.35—(Sun.) 9.30
Baden-Baden, Daffendörfer Platz, 4100	
SÜDWESTFUNK	
Wir bestätigen die Empfangsberichte We gratefully acknowledge your reception report vom 8.3. + 9.3.1973 über unseren dated the 8th and 9th of March 1973 concerning our UKW/KW/MW-Sender FM/short/medium wave transmitter	
Rohrdorf	
auf der Frequenz 7265 kHz. Leistung 300kW. at a frequency of kc/s. power kws.	
Wir wünschen Ihnen weiterhin einen recht guten May you always receive our programmes in the Empfang unserer Sendungen. best quality possible.	
Mit freundlichen Grüßen With kind regards SUDWESTFUNK Technische Direktion	
<i>Kroms</i>	





Mr.
Richard A. Schwartz
808 Townsend Blvd.
Towne Point
Dover, Delaware 19901

U S A

INDIA: AIR, Bhopal, 3315, letter from v/s. Joginder Singh, station engineer in 14 weeks. (Dexter) 3315. Bhopal, full data letter giving power as 10 kw with dipole antenna, 4 months air for 2 IRCs. (Henderson)

AIR, Madras, 6085, full data letter in 2 months air for 2 IRCs but IRCs were returned. v/s. D.P. Ramachandra. (Henderson)

INDONESIA: RRI, Jogjakarta, 5047, Voice of Indonesia card in 4 months for mint stamps, reported in Indonesian. (Henderson)

RRI, Pekanbaru, 5860, letter in Indonesian from v/s. Amiroeddin S. studio manager, airmail in 10 days. (Padula)

RRI, Semarang, 3935, letter in Indonesian from v/s. Rachmat Bosowoeharto, manager of technical section, airmail in 2 weeks. (Padula)

INTERNATIONAL WATERS: R. Nordsee, 6205, card in 3 months for 2 IRCs (Cwikla) card sea mail in 133 days for 1 IRC. (Palmer) no data in 3 months for 2 IRCs (Reeves)

IRAN: 9020, card w/full data and pic. of royal family. Note new address, P.O. Box 33-200, Foreign Programs Dept. 81 days for registered report. (Michalenska)

IRAQ: R. Baghdad, 9745, full data card in 4 months for 3 IRCs. (Archard)

ISRAEL: IBA, 15165, full data QSL in 3 weeks air for 3 IRCs (Penley)9625, card, in 35 days. (Caswell)

ITALY: RAI, 6010, card in 90 days. (Caswell)

IBF, 5000, Turin, full data in 53 days air for 2 IRCs. (O'Malley)

JAPAN: NHK, 17825, card in 10 days. (Caswell) 17825, 1 week air, no IRCs (Sigler) 15105, 2 months via R. Sweden Contest. (Nebron)

NSB, "How to QSL" card in 1 month air, no IRCs. (Nebron)

KASHMIR: Radio Kashmir, 3277, letter from J.C. Bhargava who has been transferred. Original report never reached him and he confirmed follow up from his new position with high power transmitters, Delhi. 3 weeks air. (Dexter)

KIRGHIZ S.S.R: Latin American service of R. Moscow verified SS report on 9710, with full data card. (Sizer)

KUWAIT: R. Kuwait, 15415, folder card in 21 days. (Cwikla)

LIBERIA: ELWA, drummer card in 40 days air for 1 IRC. (Schwartz) drummer card in 42 days for 2 IRCs. (King)

LITHUANIAN S.S.R: Radio Vilnius, 7150, card w/all data in 110 days seamaile for EE report and 2 IRCs. (Willshaw) 7150, card seamaile in 8 weeks. (Padula)

LUXEMBURG: R. Luxemburg, 6090, tower card w/full data, 71 days sea. (Schwartz)

MONTE CARLO: TWR, 7290, card w/all details in 5 months for 1 IRC. (Yamron)

MOZAMBIQUE: RCM, Beira, full data card in 3½ weeks for 2 IRCs and postcard. (Reeves)

NETHERLANDS: R. Nederland, Lopik, 6085, European Dx-Council map card, 43 days. (Campbell) 21480, station personal card in 10 days. (Caswell)

N. ANTILES: TWR, 11815, full data and sked. by air in 15 days air, 2 IRCs. (O'Malley)

R. Nederland, 11730, card in 38 days. (Self)

NEPAL: R. Nepal, 5000, card and sked. and report form in 199 days air for 2 IRCs. asks for more reports. (Campbell) full data card for EE report on 5000, v/s. B.H. Khatri, 5 months for mint stamps. (Sizer) sorry, out of order.

NEW BRITIAN: R. Rabaul, 3385, full veri. data sheet from v/s. Paul Cox station manager, 16 days for 3 IRCs. (Yamron)

NEW GUINEA: R. Morobe, 3220, data sheet in 1 mon. for 2 IRCs. (Reeves)

NIGERIA: VON, 15120, card w/all data in 6 weeks

air for 3 IRCs which were returned. (Leonhart)

VON, card in 11 days. (King) VON, Ikordu, card in 1 year after follow up. (Megyesy) NBC, Shogunle

7255, full data, air in 13 days. (Penely) NBC, Sokoto, 6195, card from Lagos w/all details air in 3 weeks. (Padula) Sokoto, 6195,

full data letter for Sokoto, v/s. S. Mohammed, Eng. in charge, 45 days air for 2 IRCs, (Henderson) R. Nigeria, Enugu, 6025, card in 14 days air for 2 IRCs, v/s.

Mrs. O. Soetan, (Henderson) Enugu, 6025, card in 23 days. (Mayer) Ibadan, full veri card in 13 days. (Reeves) whew!

NEW ZEALAND: RNZ, 11780, card in 2 months air for 3 IRCs. (Penely) 11780, card with freq. only in 6 months air, 3 IRCs. (Yamron)

NORWAY: R. Norway, 21730, full data card in 2 months for no IRCs. (Megyesy)

PAKISTAN: Radio Pakistan, 6990/7095, personal letter in 85 days for 2 IRCs and postcards. First reply after 18 years of intermittent trying!!! V/S. M. Sarwar shaikh, reasearch engineer, Karachi office. (Campbell) nice!

PAPUA: 4890, map card w/all details by sea in 121 days, no IRCs. (Burlaw) 4890, map card in 4 months for 1 IRCs. (Cwikla) 9520, card in 2 months for 2 IRCs. (Gendron)

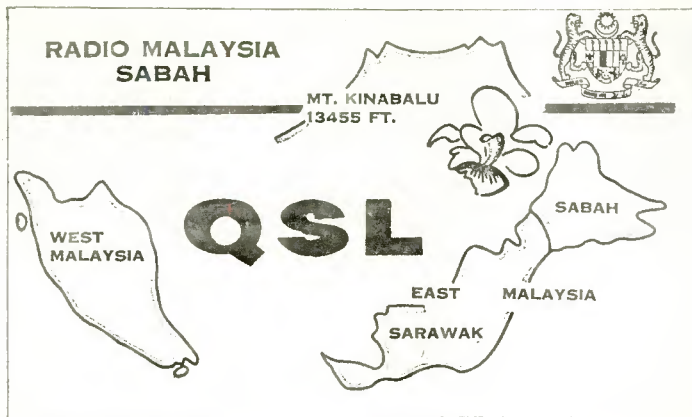
R. Milne Bay, letter from Graham Lever, manager, no data form w/stamps and decal in 2½ weeks air. (Dexter)

R. Western District, data sheet in 13 days for 2 IRCs. (Reeves)

PERU: R. El Sol, 5970, letter from Amparo del Castillo, Secretaria, and pennant in 2 months sea, 11th try! (Dexter)

R. Del Pacifico, full veri. gold and blue card with EE form letter and sked. in 3 months air for 2 IRCs and EE report. (Reeves)





PHILLIPINES: FEBC, Manila globe card in 60 days for 3 IRCs. (King)

POLAND: R. Warsaw, 11815, map card w/full data in 38 days air for no IRCs.

PORTUGAL: R. Portugal, 21455, 1 week. (Sigler) 11935, map (Willshaw) card in 11 days. (Caswell)

QATAR: Qatar BC Service, 9570, postcard with hand drawn map w/full details, in 39 days for 1 IRC. (Campbell)

ROMANIA: R. Bucharest, 9570, card in 52 days. (Caswell) 9590, 3 months air for no IRCs. (Nebron)

RWANDA: DW-Kigali, 15380, map card and pennant in 16 days. (Cwikla) 3½ months for 3 IRCs. (Reeves)

RYUKU IS: VOA, 7165, card w/freq. only from Wash. in 1 week. (Gendron)

SENEGAL: Radio Senegal, 11895, Banjo card w/ full data in 12 days air for EE report and 2 IRCs. (Willshaw)

SINGAPORE: R. Singapore, 5010, colored card, states 5010 is "test frequency" in 6 weeks sea. (Padula)

SOLOMON IS: SIBS, full data card in 10 days air for 2 IRCs. (Reeves)

SOUTH AFRICA: RSA, 11970, elephant card in 18 days. (Caswell) 2 months air (Nebron) 7 days air, no IRCs. (Sigler)

SPAIN: RNE, 6065, antenna card and pennant in 62 days sea. (Schwartz) 11925, card in 17 days air, no return post. (Talbot) card w/full data in 2 months. (Trigilio)

SWITZERLAND: SBC, 9535, card in 44 days. (Caswell)

RCBS, 7210, mike QSL, Red Cross banner and station info, air in 35 days for 1 IRC. (Palmer)

TUNISIA: Tunis, 6195, p/card w/full veri. in 16 days air for 3 IRCs (Yamron) 6195, card w/all data for tape report in 17 days for 3 IRCs. (Leonhardt)

TURKEY: TRT, 15195, dancer card and sked. by sea in 7 months, no IRCs. (Palmer)

11880, card and pennant, 2 months air for 2 IRCs. (M. Marshall) 15195, card w/date only in 15 weeks sea for 3 IRCs. (Leonhardt) full data in 65 days (Willshaw)

UKRANIAN S.S.R.: R. Moscow, 11900 card w/full data in 23 days air. (Mayer)

URUGUAY: R. El Espectador, 11835, card w/all data except freq. in 78 days air for SS report and mint stamps(used) v/s. Hector Amengual., President. (Duba)

U.S.A: AFRTS, 15430, card and sked in 58 days. (M.Marshall)

VOA, Dixon, 21460, card in 3 weeks. (O'Malley)

NSB, 12135, full data card in 1 month. (Megyesy)

UZBEK S.S.R.: R. Taskent, 6025, card w/all details, sked, station information sheet, air in 7 weeks. (Padula)

VATICAN STATE: Vatican Radio, 5995, card in 53 days. (Self) 9645, card in 48 days for 1 IRC. (Schwartz)

VENEZUELA: Ecos del Torbes, 4980, personal letter w/full data from v/s. E. Gonzalez De Chacon, pennant with my name imprinted, 24 days air for 2 IRCS and SS report. (Willshaw) letter w/all data except time, air in 2 months, 2 IRCS. (Duba)

R. Mundial, 5050, New QSL card in 22 days for SS report, mint stamps, and postcard. (Reeves)

R. Universo, 4880, globe card in 2 months for SS report and mint stamps (Cwikla) 4880, card in 1 month, no return postage. (Megyesy)

R. Yaracuy, SS card in 1 month for no IRCS. (Megyesy)

<p>الخدمة - السجود المشرق H.B.S. - Voice of the East PROSALIM, Jume de la Pierre P.O. BOX 10000 - Amman - Jordan H.B.S. - Jerusalem</p> <p>I am glad to verify your reception report dated 19th November 1972 in which you have mentioned our home Service on 4580 KLS overseas Service on KLS between the hours of 16.53 GMT TO 17.29 GMT Further report will be highly appreciated</p> <p>Director General H. B. S.</p> <p>Enclosed a copy of Eng. Prog.</p> <p>WELCOME TO THE HOLY LAND</p>	<p>HASHEMITE BROADCASTING SERVICE AMMAN - JORDAN</p> <p>NAME <u>EJINARY J. INSINGER</u></p> <p>Address <u>24 MADISON AVE.</u> <u>SUMMIT, N.J. 07901</u> <u>U.S.A.</u></p>
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VIETNAM DEM. REP: Voice of Vietnam, 10040, letter in 3 months. (Cwikla)

YUGOSLAVIA: R. Beograd, 7240, photograph card and newspapers in 49 days for 1 IRC, my first reply from them since trying from 1955! (Campbell)

ZAMBIA: Radio Zambia, 17895, full data card in 3½ months, 1 month after follow up. v/s. K.K. Saddi, C.E. (Calkin) 17895, full data card in 2 weeks, 3 IRCS. (Yamron)

THANKS TO THIS MONTHS 34 REPORTERS.

Malcolm Archard, MI.
 Douglas Burlew, PA.
 Gregg Calkin, SPAIN.
 John Campbell, SWITZ.
 Bob Caswell, OH.
 Tom Cwikla, CN.
 Gerry Dexter, WI.
 Evelyn Dolyak, IO.
 Mark Duba, VT.
 Henry Fino, NY.
 John Gendron, VA.

Don King, PA.
 Gregg Kelly, VA.
 Dan Henderson, MD.
 Mac Leonhardt, IND.
 Mildred Marshall, N.D.
 Alan Mayer, IL.
 Dave Megyesy, NJ.
 Henry Michlenka, RI.
 Larry Nebron, CA.
 Patrick O'Malley, PA.
 Bob Padula, AUSTRALIA

Paul Palmer, LA.
 Gary Penley, WA.
 Scott Reeves, MD.
 Richard Schwartz, DE.
 Charles Self III, MN.
 Mark Sigler, IN.
 Al Sizer, CT.
 Larry Talbot, WI.
 Dan Triglio, TX.
 Fred Willshaw, S.C.
 Larry Yamron, PA.

NOTE: When reporting to QSL REPORT PLEASE leave a space between items and write your last name at the end of each item. WANTED... clear photocopies of interesting QSLs, must have alot of contrast.

P.S. Due to a mis-understanding with the deadline some reports did not make it in time. If your name doesn't appear above your report will be used in August issue.

Good DX and 73's, Larry Yamron



Dan Jamison
310 Roanoke Street
Apartment 21
Richmond, VA 23225

Deadline: 15th

*** SURVEY *** As announced in last month's LN, we are conducting a survey in order to determine which five SWBC stations in the world NASWA members most desire to receive. The deadline has been extended to July 14. This new deadline would still allow us to publish the results of the survey in the August edition of FRENDX.

This is not intended to be one of the average, proverbial, run-of-the-mill surveys. We will provide reliable tips on how to receive the most desired stations which will give you some feedback to base your strategy on which will hopefully lead to the reception of said stations. We invite each and every member to send a post card today to your LN editor listing your choices. We need a list from as many NASWA members as possible in order to make the survey accurate and valid. Have you sent your choices to the LN ed yet? Thanks for your participation. (ed.)

QATAR As promised last month, how to tune Qatar: Qatar broadcasts on 9570 and can most likely be hrd by NA DX'ers on occasions at about 0227 GMT when the station signs on with a 28 note guitar tune. Keep trying - eventually you may get them through the R. Bucharest signal which is sometimes silent between 0225-30. Qatar has plans for two more 250 KW SWBC transmitters, but not for English. The WRTH listed freq of 6135 for Qatar is not used currently. (SCDX and Ed Shaw, VA)

ASIAN SOVIET HOME SERVICE - UPDATE

7200 KHz This transmission now signs off at 2100. The "Yakutsk" xmsn which started at 0100 now signs on at 2200. It starts out w/a local program in an Asian lang until 2315, then relays Moscow.

9375 KHz Majak pgm from Khabarovsk: s/on has been variable lately, usually at 2200, but they appear to be working the bugs out of a new and more powerful transmitter. Have been noted as early as 1330 checking the new transmitter out.

11870 & The short xmsn from 1430-1530 is on only Wed.'s and Fri.'s.

12010 KHz This is probably the "special" pgm WRTH used to list for the fishing fleet in the Pacific Ocean. (DX'er Bill Davis)

CHINA R. Peking's Home Svc 1 has been noted from 2000 sign on to 1730 sign off on 7504, 8965, 8980, 11290, and 11330. Another Peking station has been noted on 8915 signing on at 2000 and off at 1558. (Bill Davis, California)

IRAN Teheran - 15084: WRTH lists a pgm to Europe fm 2030-2130. This pgm may be on some other freq but not on 15084. The pgm up to 2130 on 15084 is a "Home Svc" relay - cmcls and all. The 2130-2235 segment has been added this year and is probably the hour for "Iranians Abroad", as mentioned in WRTH. (Thanks to Bill Davis who teamed up w/an Iranian student for this item)

CUBA R. Habana Cuba broadcasts to North, Central, & South America fm
0250-2150 on 17705, 15285 0330-0600 on 11760
0100-0450 on 11930 0630-0800 on 9525
0100-0600 on 11910 (Larry Marshall, California)

CZECHOSLOVAKIA R. Prague b/c's to NA at 0100 & 0300 on 5930, 7345, 9540, 9630 (0100 b/c only), 9740, and 11990. (Thanks Larry Marshall)

DENMARK R. Denmark now broadcasts to the Americas at 0200 to 0245 on 9520 and from 2200-2245 on 15165. Although no EE broadcasts are made, EE ID's are given at beginning and during the pgms. (Ed Shaw)

ECUADOR HCJB: "DX Party Line" will replace "Kiwis In Quito" at 0930 on Monday's in HCJB's b/c to the S. Pacific. (Charles Foxx, VA)

ICELAND Reykjavik Radio broadcasts in Icelandic each day between 1200-1300 on 12175 with a 5 KW transmitter. QSL's received for the period of between 1200-1300 may be counted on the NASWA Country List. Other hours of b/c'ing by Reykjavik Radio are for utility purposes and are not acceptable for NASWA counting purposes. (Ed Shaw, VA)

ISRAEL We would like to make a few rather interesting comments while at the same time steering clear from a repetitious listing of the IBA sked which was listed last month in LN. IBA broadcasts in addition on 10530 from 1400-1700, 1715-1830, & fm 1830-1950. It is most interesting to note IBA signing on in RR at 1400 on 10530. Why s/on at 1400 you might say. Maybe the answer to this question is that Alma Ata probably signs off at 1400! Sort of like sharecropping with audiences and freq's! (Charles Foxx, VA, Corky Webb, TX, Anthony Marks, OR)

JAPAN R. Japan's ECNA svc fm 2345-0045 is now using the new freq of 17825 which replaces 11800. (R. Nederland's DX Juke Box)

REP. OF KOREA The former VOFK now has a new svc naming itself as Radio Korea, Seoul and broadcasts in EE twice daily at 0900 and also at 1100. The freq's for both transmissions are 9640//15335 as well as 6135 at times. (R. Nederland's DX Juke Box)

LEBANON R. Lebanon is using the new freq of 11790 (replacing 9550) to NA fm 0230-0300. ((noted recently at an excellent level - ed.))
(Arthur Cushen's DX World via Radio New Zealand)

LITHUANIA, SSR R. Vilnius b/c's in EE on Sat & Sun fm 2230-2300 on the unannounced freq of 11740 in addition to 7150, 7260, 7290, 7310, 9620, 9660, 9670, R. Vilnius also b/c's on Sun & Mon at 0030 on the same freq's. (Arthur Cushen's DX World via Radio New Zealand)

NIGERIA The HS sked is as follows: MALAGASY REP. R. Nederland b/c's
Nat'l Pgm fm Lagos: the "Happy Station" pgm on Sun.'s
4990 10 KW 0430-1000, 1500-2305 fm MADAGASCAR directed to
7255 10 KW 0700-1815 Australia @ 2130-2250 9715, 11945
9690 100KW 0800-1615 SEA @ 0030-0150 11770, 11720
fm Ibadan: W. Austral 1100-1220 15320
3204 10 KW 0450-0730, 1430-2305 South Asia 1400-1520 17810, 11740
7285 1 KW 0700-1630 E. Africa @ 1700-1820 11730
fm Enugu: S. Africa @ 1830-1950 6020
6025 10 KW 0500-2305 (Mac MacLeod, PA)

fm Calabar: SEYCHELLES FEBA b/c's in EE to
6145 10 KW 0430-2305 South Asia according to the
fm Kaduna: following sked:
3396 10 KW 0430-0705, 1630-2305 fm 0600-0815 on 15270 & 17775
6175 20 KW 0700-1800 fm 1330-1400 on 15270 OR
fm Maiduguri: 15265 & 17840
6100 10 KW 0430-2305 fm 1530-1630 on 15270 OR
fm Sokoto: 15265 & 17840
6195 10 KW 0430-2305 The EE xmsn to Iran, Ethiopia,
fm Benin: & the ME may be heard between
4932 10 KW 0430-1245, 1350-2305 1730-1800 on 11955 and 15330.
TRANSMISSIONS END AT 2300 ON SAT (Mac MacLeod, PA)
(Tom Cwikla, Conn.)

PARTICIPATE IN THE SURVEY - SEND YOUR CARD TODAY!!!

SURINAM To answer a question sent by member Tom Cwikla: No Tom, Surinam is currently off shortwave and has not been noted on the air for at least eight years. NASWA Awards Chairman, Dan Henderson, knows all about it. It took him about seven or eight years to get his QSL from them! Right on Dan! (Ed Shaw and ed.)

LANGUAGE FORMS Keith Martin of PA. reports receiving a prompt QSL from VTVN by sending his third follow up, this time, in Vietnamese... as per the NASWA Vietnamese Lang Report Form. His initial report was in EE and the first two follow ups were in French. The total elapsed time for the QSL was one year and ten months. For your copy of NASWA's Viet., Persian, and Urdu forms, send 55¢ for reproduction and a SASE with two 8¢ stamps (or two 11¢ stamps for an airmail reply) to your LN editor.

LANGUAGE IDENTIFICATION If you would like to practice on language identifications or to acquaint yourself with various Asian lang's, you might tune to the BBC on 9825. They b/c Japanese fm 2200-2230, Standard Chinese fm 2230-2245, Cantonese fm 2245-2300, Vietnamese fm 2300-2315, Indonesian fm 2315-2330, Burmese fm 2330-2345, and Thai fm 2345-2400. (BBC External Svc Freq Sked via ed.)

POSTAGE STAMPS to commemorate the advancement of electronics will be released on July 10, in denominations of 6¢, 8¢, 11¢, and 15¢. These artistic illustrations would look particularly nice on our hobby mail. Publicize the hobby - LISTEN TO FOREIGN SHORTWAVE - ITS - EDUCATIONAL. (DX'er Ed Shaw) -

POSTAL SERVICE OFFICES have a free brochure number 51, "International Postage Rates and Fees". Ed Shaw says that they are a big help by saving time and avoiding headaches. Also to aid in your mailing, invest a couple of bucks for one of those little postage scales which are available at any chain discount or drug store. (Ed Shaw)

REMINDER: CW Naval Time Stations in GUAM and the CANAL ZONE are no longer counted as acceptable catches. This removes GUAM completely from the list, but the CANAL ZONE may stay since there once was a SWBC station there since September, 1945, in observation of the NASWA country rules. (Ed Shaw)

And with this, we wrap up another LN. Be sure to send a post card with a list of your five most desired stations to receive for the survey soon. Many thanks to all of our contributors. Have you contributed lately?

NEXT MONTH: Survey results

73 and Happy Listening,

Dan

HEADQUARTERS NOTE

With the several conventions announced for July and August this year, we are having to increase the press run on this July issue to 1500 copies, in order to supply the sample copies we have been requested to provide at many of these meetings. With that many copies, HDQ is quite thankful that this issue is slightly smaller than usual. We got to checking back and found that this is the first time since April 1972 that FRENDX has been less than 52 pages, the first time since December that it has been less than 56 pages. A total of 672 pages in FRENDX over the past year, and all of it devoted to SHORTWAVE BROADCAST RECEPTION. May we suggest a note of thanks to the editors who have been so diligent in preparing their sections? Without the editors, and without your support of the sections of FRENDX, there would, of course, be no club magazine. So, if you've been a contributor, thank yourself, too!

WE URGE YOU TO ATTEND THE ANARC CONVENTION IN SAN DIEGO IF AT ALL POSSIBLE. ANARC CONVENTIONS ARE FUN, AND THEY ARE EDUCATIONAL...CHARLIE LOUDENBOOMER WILL BE THERE!

CLANDESTINE BULLETIN



REPORT ON CLANDESTINE, REVOLUTIONARY, PIRATE & ESPIONAGE RADIO & TV ACTIVITY

Larry Magne, PO Box 2133, Mid-City Station, Philadelphia PA 19103, Tel 215-KI5-7699



VOICE OF PEACE

("SAUT AL-SALAAM")

As you surely know by now, the clandestine radio station, "Voice of Peace", operated by Abie S. Nathan from the 570-ton "Peace Ship", began official operation May 19 on 1540 kHz at 1800 GMT. Publicity concerning this venture has been widespread, but our investigation has unearthed some points largely omitted from lay writeups, as well as evidence that one widely-circulated report may not be correct.

Sinai Tragedy Helps Provide Needed Funds and Supplies

After berthing the "Peace Ship" at West New York, New Jersey, Nathan had to take care of a number of vital matters, most of which called for additional funds or donations in kind.

The ship needed a transmitter; a crew; food; air conditioning; studio equipment; furniture; fuel. Funds dribbled in, but not enough to make the dream a reality.

Then a well-publicized Middle-East tragedy brought the Voice of Peace widespread sympathy in North America; a Libyan civilian airliner was shot down by Israeli aircraft over the occupied Sinai, killing most of those aboard. Apathy towards the Voice of Peace vanished, thus encouraging the inflow of money and material needed to get the ship off to the Middle East. Some examples:

- A religious foundation donated two 25 kw medium-wave transmitters.
- The Salvation Army donated most of the furniture.
- Campbell's Soup donated 10,000 cans of soup and spaghetti.

The crew materialized: a French captain; an American Roman Catholic priest (Fr. Charles H. McTagus, who provided the information for last month's "CB" story); two Filipinos; a Yugoslav; a Canadian and a British disc jockey from pirate Radio Caroline; and a "Chinese" radio engineer.

Transmitter Problems "Resolved"

The nature of the operation and the transmitters pretty much dictated the outcome of the basic operation as we now know it.

The transmitters are limited to operation in the medium-wave band, so the antenna chosen was a 160-foot vertical. The transmitters were adapted to run singly -- giving an RF output of 25 kw -- or in parallel on the same frequency, for 50 kw.

However, the choice of frequency was a little less orthodox.

The National Radio Club's (NRC) helmsman, Gordon Nelson, in a series of phone

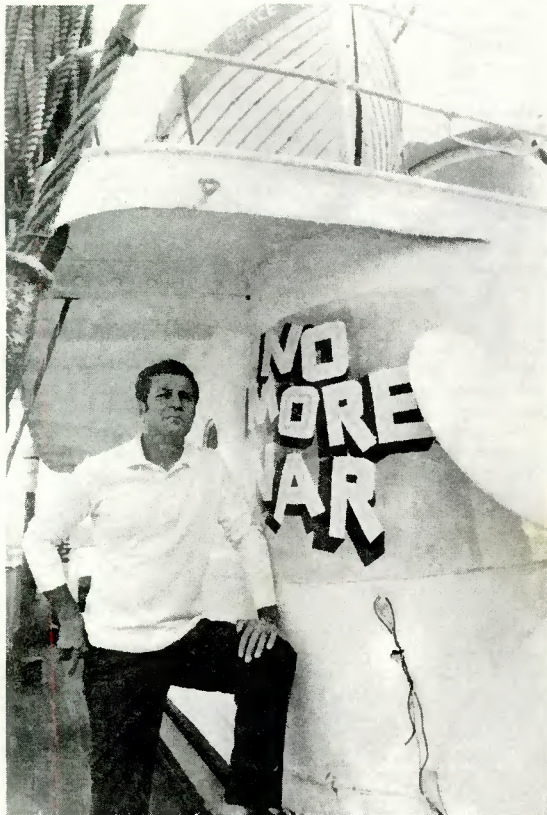
calls to Nathan, suggested the Voice of Peace would be best off using the fairly-free channel of 1546 kHz, formerly occupied by the BEC's Malta Relay. Of course, 1546 kHz is a legitimate ITU medium-wave channel outside the Americas, Asia, and the Pacific; but, it seems, the "Chinese" engineer was not aware that while in Asia and the Americas channels are 10 kHz apart, they are only 8 or 9 kHz apart in the Middle East and Europe. Hence, he apparently understood the 1546 kHz recommendation to be 1540 kHz, an Amerasian channel only 2 kHz away from the European-Mideast channel of 1538 kHz. Among the stations on 1538 kHz is the 700 kw outlet of Germany's Deutschland-funk; needless to say, the German station has wound up greatly interfering with the Voice of Peace.

Voice of Peace Reported
Transmitting off U.S.
Coast

Finally, at 2030 GMT on March 16, the craft left New Jersey for the trans-Atlantic voyage. According to Edward Janard of London, reporting in SCDX (DX-B 1224), the Voice of Peace fired up its transmitter March 17 (GMT date) "off New York" on 1540 kHz from about 0100-0700 in order to raise funds. The timing seems reasonable, and the frequency fits; but the rub is that nobody seems to have heard the transmission.

The NRC had been trying for some time to get the Voice of Peace to fire up its transmitters off the coast of North America for the benefit of, among others, medium-wave DXers. Mr. Nathan flatly vetoed all such proposals -- even to turn on briefly the flea-powered exciter -- in order not to cause ill will among U.S. and Canadian Government authorities. The NRC idea had merit, but the risks offset the benefits of a little extra income and increased rapport with the DX fraternity.

So, did the Voice of Peace actually broadcast off the coast of New York? Given the preceding, it doesn't seem very likely.



Peacemaker Abie Nathan on Board the "Peace Ship"
(The New York Times)

Dream Comes True

After a voyage filled with gales, leaks, mechanical failures, and the mysterious

disappearance of Nathan (cf. June CB-5), the Voice of Peace officially took to the air eight miles* off the Israeli coast at 1800 on May 19 (although UPI indicates the first transmission -- possibly unofficial -- took place May 18). According to the BBC Monitoring Service, the inaugural broadcast "comprised an address by Abe Nathan, founder of the project, telling the history of the 'Peace Ship', the difficulties in raising funds and troubles on the journey. He went on to state his aims in bringing peace to the area and appealing to people from both sides to join the project."

And so it happened; the mouse roared.

The station signs on with John Lennon's "Give Peace a Chance", then goes into transmissions in Arabic, Hebrew, French, Italian and English. The English-language ID is, "This is the Voice of Peace, broadcasting on 1540 kilocycles from somewhere in the Mediterranean. This is the Voice of Love." Programming consists mainly of light pop music, interspersed with IDs, news, and "upbeat patter about peace prospects in the Middle East".

"Prayerlike" pleas for peace (e.g., "We call on you to...", "We appeal to all in Israel and the Arab countries to...") have been noted in Madrid by our old friend and former QSL Report editor, Gregg Calkin, between 2100-2115, preceded and followed by pop music. In the future, there should also be 10 minutes or so a day of commercials to cover the \$10,000-a-month operating costs.

For now, only one 25 kw transmitter is being used, but 50 kw will be used if need be for

better reception or to overcome jamming, which has not yet materialized.

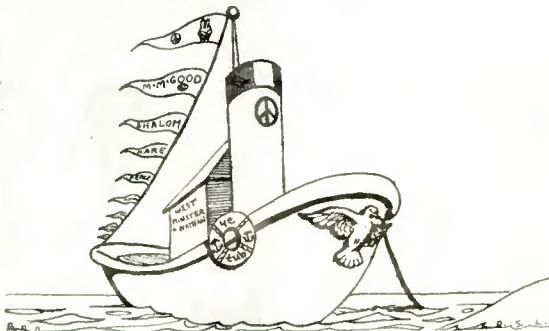
The schedule, per BBC MS, was, as of May 20, 1500-2400 on 1540 kHz, although the June 18 issue of Time reports the frequency as being 1542 kHz. The signal is strong in Madrid, but is heavily heterodyning Deutschlandfunk on 1538 kHz (see earlier comments). Hopefully, the Voice of Peace will order crystals for 1546 kHz, whereafter the signal should be more clearly audible.

The verification policy isn't known as yet, but reports may be sent to P.O. Box 1010, Nicosia, Cyprus; or, for listeners in Israel, "Voice of Peace", P.O. Box 28028, Tel Aviv, Israel. The former should be a good address, as the Peace Ship intends to periodically refuel and replenish supplies in Cyprus, so mail sent there will likely reach the station's engineer.

For further information on the Voice of Peace, please reference the following recent issues of "Clandestine Bulletin": April CB-4, May CB-4, and June CB-5.

Thanks to the following individuals and organizations (listed alphabetically) for their considerable assistance: BBC Monitoring Service; Steve Bohac; Gregg Calkin; The Dispatch (Nan Spranger); The London Observer (John de St. Jorre); Gordon Nelson; The New York Times (Shirley Baig, Meyer Liebowitz, Terence Smith); George Schnabel; Al Sizer; "Sweden Calling DXers"; Time; United Press International; Mike Wiseberg; and, of course, cartoonist Diane Lévesque. Please note that this article contains copyright information from the BBC Monitoring Service and a copyright photograph from The New York Times, none of which may be reproduced without their prior written consent.

*8 miles per BBC MS, 15 miles per Time. The distance from shore likely varies with the Peace Ship's movements.



HEAR IT FIRST OVER LIBERATION RADIO

The Vietcong's spokesman at the Paris Peace Conference, Colonel Duong Dinh Thao, charged on May 12 that the U.S. had resumed bombing of South Vietnam in violation of the original cease-fire accords. Asked why the Vietcong had waited a month to make the charges, Colonel Thao declared, "We have on many occasions given

this information on our radio; but, much to our regret, you people have not had a chance to hear it. Today, we officially present this information to you." (AP)

Q64 question: Did the FBIS's summary of these Liberation Radio broadcasts fail to make it to Henry Kissinger's desk; or did he see the summary, but choose to ignore it?

You can hear Liberation Radio, then write Henry Kissinger yourself. The complete schedule -- a NASWA exclusive -- is in the May "Clandestine Bulletin", CB-3.

PHEARLESS PHRED'S PHUNKY PHABLES

by G.B. Trudeau

VOICE OF AMERICA SENDS MESSAGES TO CIA SPIES

In a revealing article on U.S. spy operations in Southeast Asia, Jeff Stein of the Pacific News Service -- as reproduced in the May 22 issue of the Chicago Sun-Times -- indicated that the Voice of America routinely sends espionage messages to U.S. intelligence operatives in the field.

Concerning espionage broadcasts, Mr. Stein points out: "The full arsenal of classic espionage paraphernalia, formerly restricted to the European theater, is available to Indochinese agents. It began with the issuance of Delco Shortwave 'speed burst' radios to the agents. These radios can transmit a scrambled Morse code message in a fraction of a second. The message is first recorded onto a tape cassette at normal speed, and then inserted into the radio. When broadcast, the radio transfers the message at lightning speed to a receiver similarly equipped to record it. Detection and interception of the broadcast by a hostile party is nearly impossible.

"The agents are alerted to send or receive a message when they hear a key phrase on a normal Voice of America program, or a commercial radio program that has a working relationship with the CIA or a military intelligence unit. That phrase instructs the agent to stand by his Delco set at a time that was prearranged."

From time-to-time, spies have to meet with other spies. Again, the Voice of America comes into play: "A signal is flashed to the agent that a personal meeting will be held.

Perhaps the Voice of America will again be the conduit. The American and the Vietnamese meet in a seedy, cockroach-infested hotel in downtown Bangkok or Saigon. The agent is debriefed, problems are discussed, and large amounts of money pass hands."

Thanks to Kenosha newsman Don Jensen for passing this on to us.

CHOU ORDERS CLANDESTINE BROADCASTS CONTINUED: In a talk with Raja Mohar of Malaysia, Chinese Premier Chou En-lai indicated the "Voice of Malayan Revolution" and the "Voice of the Thai People" -- both of which broadcast from Yunnan Province, China -- will continue as usual, despite pressure from Kuala Lumpur and Bangkok to curb them. Premier Chou feels the broadcasts are "the equivalent of religious or political propaganda broadcasts indulged in by the West." (Far East Economic Review via Lars Rydén) For the complete schedules of these stations, consult the 7th edition of How to Listen to the World, a Billboard publication. Both stations, but especially "Voice of Malayan Revolution", are audible throughout North America and Europe.



Glenn Hauser

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Von Ormy TX 78073

Harmonics



SO FAR we have concentrated on MW harmonics falling on shortwave--a topic which turned out to be controversial. More palatable to SWBC-only types are SW harmonics falling on a higher shortwave frequency. You've noticed them reported in the 10, 12 and 19-MHz areas; it goes without saying that a general-coverage receiver is a must!

HF conditions are nearing their cyclic low, however, making this a poor time to go all-out for harmonics on 23, 24, 28 and 30 MHz--but the 1968 peak should recur near 1980. In the meantime random openings will still bring transoceanic harmonic DX to those looking for it. 10-m ham and 11-m broadcast DX may give away such openings. The highest MUFs remaining are for the north-south North America-South America paths. This, combined with sporadic E openings prevailing in the summer make Latin America the most likely source of HF harmonic DX in North America. If you tune across the proper bands during the afternoon and evening hours, some harmonic DX may surprise you. Below are a few LA stations heard in the last few years--quite likely still putting out harmonics, just waiting for an opening to propagate them and a DXer to tune them in!

12012	2 x 6006	R. Reloj, Costa Rica	23880	4 x 5970	R. El Sol, Perú
12110	2 x 6055	R. Pacifico, Colombia	24025	4 x 6006	R. Reloj, Costa Rica
12155	2 x 6077	V. del Junco, Honduras	24080	4 x 6020	R. Victoria, Perú
12330	2 x 6165	XEWW, México	24240	4 x 6060	LRA, Argentina
18230	3 x 6077	V. del Junco, Honduras	24380	4 x 6095	V. del Centro, Colombia
19030	2 x 9515	XEWW, México	28545	3 x 9515	XEWW, México
19200	2 x 9600	R. Universidad, México	30625	5 x 6125	R. Suyapa, Honduras
23610	2 x 11805	R. Globo, Brasil	30670	2 x 15335	R. Farrroupilha, Brasil
23670	2 x 11835	El Espectador, Uruguay			

Omitted are R. Habana Cuba, whose every frequency is a likely harmonic. Relatively closer VOA and R. Canada transmitters are more likely on short skip (sporadic E). A citizen's band full of QRM is the tipoff for Es. Es MUFs quite often reach 100 MHz, so broadcast harmonics are possible over a wide range; your editor once heard R. Habana in an AM transmission on 91.8 MHz--6 x 15.3 MHz!

The table below should prove a valuable reference; once you hear a harmonic on a given frequency, you can spot the likely fundamental band(s)--keeping in mind that it doesn't apply to stations whose fundamentals are offband!

<u>KHz range</u>	<u>Harmonic</u>	<u>Fund-mb</u>					
		12800-13400	4	90	21300-21900	3	41
-4600	-	13400-13800	-	none	22400-23800	7	90
4600-5000	2	13800-15000	6	120	23000-25000	10	120
5000-6400	-	14200-14600	2	41	23400-23950	2	25
6400-6800	2	14250-15180	3	60	23400-24000	6	75
6800-6900	-	15180-15600	-	none	23750-25300	5	60
6900-7500	3	15600-16000	4	75	23800-24800	4	49
7500-7800	-	16000-17000	5	90	25300-27500	11	120
7800-8000	2	16100-17500	7	120	25600-26800	8	90
8000-9200	-	17500-17850	-	none	27300-28000	7	75
9200-10000	4	17850-18600	3	49	27600-30000	12	120
9500-10120	2	18400-20000	8	120	28400-29200	4	41
9600-10200	3	19000-19550	2	31	28500-29325	3	31
10200-11500	-	19000-20240	4	60	28500-30360	6	60
11500-12500	5	19200-20400	6	90	28800-30400	9	90
11700-12000	3	19500-20000	5	75	29750-31000	5	49
11900-12400	2	20400-20700	-	none	29900-32500	13	120
12500-12800	-	20700-22500	9	120	30200-30900	2	19

Harmonics above the 6th order are extremely rare, but are included for the sake of completeness. If your coverage extends above 31 MHz, extend the list! ...73, Glenn

Log Report

NASWA LOG REPORT
M.R. LEONHARDT
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07720	20018	33040	61873

- 2350 INDONESIA RRI- Yogyakarta, Indon. pops 1330 // 5047 (Padula)
2415 CHINA Wenchan CC tx cmtry 1035 (Padula)
2420 INDONESIA R. Augustina Jr. west. pops 2050, Hindi vcls 2105, Moslem ch. 2115, ID 2135 (Padula)
2450 INDONESIA RRI-Jakarta on late 5/26 w/puppet shadow plays// 3277 heard 2115-2135* ID-RRI Studio Jakarta (Padula)
3204 NIGERIA RN 0445-0530 EE YL Vernac OM, rel & lcl mx EE, nx 050C
3215 DOM. REP. R. Libertad 0104 pol tx (Miller)(Reeves) (Reeves)
3220 N.GUINEA R. Morobe 1100 Pidgin tx mx past 1130 (Behr)
3222.5 BOUGAINVILLE RB 1034-1055 Island ch. w/guitar mx (Tuch'r)
3227 LIBERIA ELWA 2140 vernac EE ID Afr mx (Wootten) (Yamron)
3232 CONGO RTVC 1945 FF nx tx mx (Wootten)
3240 PERU R. America 0240-0602 lcl mx U.S. pops & SS (Reeves)
3245 PAPUA R. Kerema 0950-1030 Island mx QRN (Reeves)
3250 S.AFRICA SABC 0050-0430 EE mx ID (Miller)(Burlew)(Wootten)
3260 NIGER Niamey 2013 FF cmtry lcl mx (Wootten)
3260 ECUADOR LV del Rio Carrizal 0255-0307* EST TC's, Andean mx, clear ID at s/off (Heutte)
3285 S.AFRICA 0430-0530 EE nx mx cmtry (Reeves)(Heutte)
3290 GUYANA Action R. 0415-0430 EE pops (Tuch'r) freq. ann. as 3295
3295 GHANA GBC 1946 EE rel. px (Wootten) (Agner)
3300 GUATEMALA TGNA 0100-0830* inst. mx, rel. px (Smith, Heutte, Lineback, Mayer, Reeves)
3300 BURUNDI LV del Rev. 2045-2101* FF (Bruce)
3305 PAPUA R. West. Dist. 1100 vernac. tx, mx past 1130 (Behr)
3320 S.AFRICA SABC 0415 Afrikaans (Mayer)
3320 PERU R. Estrella del Sur supposed 0200-0517* (Reeves)
3325 VENEZUELA R. Mongas 0014-0025 SS (D'Angelo)
3325 ECUADOR Ondas Quevedanas 0400-0458* SS mx ID (Behr) 0855-0930 SS mx ID, TC (Reeves)
3346 ZAMBIA RZ 2130 EE, mx (Bruce)
3355 INDONESIA RRI-Sumanep Reg. Indon. mx 1105, ID 1110 (Padula)
3360 GUATEMALA LV de Nahuala 0255-0430* SS mx (Heutte, Tuch'r Reeves)
3360 PAPUA R. Milne Bay 1100 mx, 1115 EE nx 1125 mx, (Behr)
3375 ANGOLA R. dif. de Ang. 2339 PP lt. mx (Bruce)(Tuch'r)
3380 MALAWI MBC Blantyre 2106 EE pops, nx-2200 (Bruce)
3385 N. BRITAIN R. Rabual 0953-1110 Pidgin mx, tx (Lineback, Yamron)
3395 VENEZUELA R. Universo 0350 SS mx (Megyesy)
3396 RHODESIA RBC 2155 EE lt. mx ID-2200* (Bruce)
3568t TIMOR Dili PP? tx, mx, weak in QRN but what else this freq.
3915 MALAYSIA BBC-FES Indon. 1030-1100 (Padula) (Lineback)
3916 INDONESIA RRI-Ternate *2100 lcl ID into pops (Padula)
3952.5 ENGLAND BBC WS 2315-2330* (Padula)
3960 MOZAMBIQUE R. Pax PP pops, annts 2050-2100* (Padula)
3965 S.AFRICA RSA ex-3285 EE svc (Heutte)
3982 INDONESIA RRI-Biaic noted appar. ex-3995 in eves Indon mx 1005, lcl ID 1010 (Padula)
3995 SOLOMON ISLANDS 0815-1115* BBC nx 1000 (Yamron)(Reeves)

3997 S.AFRICA RSA ex-3285 EE svc time? (Heutte)
 4750t ECUADOR R.El Mundo noted at 0450* w/NA (Heutte)
 4755 BRAZIL R.dif do Maranhao 0110-0205 PP nx annts (Lohe)
 4760 VENEZ. R.Frontera 2300-0354* YV format mx ads tc (Heutte)
 4765 BRAZIL R.Feira Santana barely aud. in QRM,N 2330 (Heutte)
 4785 USSR R.Baku 1845 RR tx cmtry (Wootten)
 4790 INDONESIA RRI-Fakfak f/in 0900 lcl ID 1200* (Padula)
 4795 DOM.REP. Onda Musical 0230 SS spts, ads (Alexander)
 4796.5 BOLIVIA R.Nueva America 0445-0458* heard only if YV,HC,& ute
 are gone (Reeves)
 4800 ECUADOR R.Popular poor at 0400-0500 mx,ads,annts,TC's prog
 "La Voz de la Noche" (Heutte)
 4806.5 BRAZIL R.Amazonas 2200-0130 PP annts,coke ads, vcls(Reeves,
 4815 ECUADOR R.Canal Manibita 0305-0501* (Reeves) Lohe
 4820 HONDURAS HRVC 0300 mx & rel tx (Bagley) lang?
 4820 GAMBIA RG 2000 EE nx BBC relay (Wootten) 0650-0715 EE lcl mx,
 BBC & lcl nx (Lohe)
 4820 ECUADOR R.Paz y Bien 0928-1030 HC mx SS (Reeves)
 4824.5 ECUADOR Em.Cultural Luz y Vida 0230-1030 (Reeves)
 4830 VENEZ. R.Tachira YV/NA 0955, *0957 (Reeves)
 4832 COSTA RICA R.Capital 0548 SS LA mx, ID's (Alexander)
 4839 ZAIRE R.Bukavu 1950 FF mx (Bruce) 0405 Afr mx (Heutte)
 4840 VENEZ. R.Valera 0940 smeared by ute by 1000 (Reeves)
 4843.5 CONGO Pt.Niore FF tx lcl mx 0505-0530 (Reeves)
 4845 BOTSWANA RB 0359 Vernac, cowbell IS, tx, mx (Burlaw)
 4854t BOLIVIA R.Centenario 0120-0350 usual LA fare (Reeves)
 4855 MOZAMBIQUE R.Clube de 1958 PP nx 2000 (Bruce)
 4856 BOLIVIA R.Cobija 0500-0702* SS ballads, andean tunes, SS &
 some Indian lang. tx (Reeves)
 4856.5 PERU UNID 0430 Andean mx to 0602* (Behr)
 4865 BRAZIL R.Cl. do Para 0202 PP nx, ID (Mayer)
 4870 DAHOMEY Cotonou 0515 Vernac drift to 4872 mx tx (Wootten)
 4875 BOLIVIA R. de la Cruz del Sur on 5-22 w/ tx on LA econ. TC
 for 19:43:30, ID (Heutte) 0250-0311* rel px (Reeves)
 4880 ZAIRE LV de, 0400 FF tx nx (Heutte)
 4880 VENEZ. R.Universo 0200-0245 SS tx mx (Megyesy)(Pyatt)
 4886 PERU R.Villarica 0430 Andean mx Peruvian anth. to 0503*(Behr)
 4890 PAPUA ABC Port Moresby 1030-1100 EE ID ABC nx (Lineback,
 4890 HONDURAS R.Lux 0210-0256* SS mx (Reeves) 0001-0025 Yamron)
 SS mx annts (Lohe)
 4895 SARAWAK RM Kuching 1000 natl.ant. mx vernac annta (Padula)

Well, it seems DX has hit a low now, and if summer is here, can
 fall be far away? Many thanks to the above contributors. 73 ERS

HEADQUARTERS NOTE to those who read the June Loudnboomer Report as indicating a
 NASWA dues increase....While we realize that a large dues increase would be quite
 easily justified, it is unnecessary at this time. In spite of the fact that we have
 been able to expand the bulletin far beyond the old limit of 48 pages(this month's
 is the first 48 page bulletin in several months...we have been running 52, and often
 56 or 60 pages per month), and in spite of the fact that we are now presenting many
 pictures, which cost more to have done, in spite of the fact that we are now able to
 use some color at times, and in spite of general inflation, we do not at this time
 foresee any necessity for a dues increase. Of course, an increase in postage could
 possibly result in a dues increase, but we will just have to wait and see on that.
 ...Meanwhile, if you thought that CL's announcement was for a NASWA dues increase,
 we are very sorry to disappoint you, but that was just for Loudnboomer's own little
 club. It is, however, gratifying to note that there are members who apparently felt
 the increase was justified and submitted the additional monies. All such monies have
 been returned to those who submitted them....And if Loudnboomer will please contact
 me, with an address, I'll be sending him the bill for the postage that was used in
 refunding such overpayments!..... Loudnboomer, where are you? Dan Ferguson

FOR SALE: Realistic DX150A receiver, very good condition, plus matching SP-150
 speaker and manual. All for \$75, postpaid in USA. Frank Alexander, Jr., 1629 Jameston
 Drive, Charlotte, NC 28209.

- 4910 R Conakry fair at 2230 with FF talks, mx (Wootten-Afr)
- 4911 Em Gran Colombia, Ecuador, reactivated for summer; 0400 fast SS talk (Heutte)
- 4911½ R HIN good at 0650-0710 with Loteria Nac ad, ID, TC in SS (Lohe)
- 4915 R Ghana good with EE nx 2239-2300* (Alexander, Bruce-Eu) Wallace
- 4920 R Progreso at 0200-0430 with SS talk, LA & US mx, IDs, fair (Cwikla, Lohe, /
- 4923 R Quito fair at 0015, SS ads, mx, ID: R Quito para Ustedes (Lohe)
- 4925 Unid Brazilian 5-22 at 2345-0130, PP with talks, mx; two possibilities (Heutte)
- 4926 R Bata at 2029 with SS songs and local mx, ID (Bruce-Eu)
- 4927 RRI-Jambi with Western Time TC at 1440, local ID (Padula-Pac)
- 4930 R Mil good at 0134 with LA mx, SS (Alexander)
- 4931½ RRI-Surakarta good with no R Mil, 1050-1130 in Indon, Western mx (Reeves)
- 4932 NBC-Benin City fair at 2245-2305* with local EE nx, headlines (Cwikla)
- 4935 R Tropical with quiet piano mx & SS locutor, good at 0210-0315 (Reeves)
- 4938 Bolivia, R. Norte, Montero, 6-20 at 0130-0215 with all SS talk, weak (Heutte)
- 4939½ R Nac de Ecuador exc after Yaracuy s/off; 0400-0450v* (Reeves)
- 4940 R Abidjan at 2048 with local mx under Russian (Bruce-Eu) 2330-0002* with FF talk by man, African mx, fair with QRN (Wallace)
- 4940 R Yaracuy noted at very unusual 2205-2245, mixing Abidjan; YVs very rare here in local morning (Padula-Pac) FB, Bob, notice quite a few long path from you!
- 4950 RMS-Kuching at 1200 with EE nx, commercials, Malay ID, clear, good (Treibel)
- 4965 R Santa Fé fair at 0438-0615 in SS talks, ads, mx, amts (Alexander, Kolb, Wootten-Afr)
- 4966v R Clube de Malange, Angola, fairly regularly at 2205-2300v*, PP vocals and IDs, chime and AP at close, not too much trouble from Colombia (Reeves) FB OM!
- 4972½ R Yaoundé at 1830 with short EE pgm, 2045 with Dixieland mx (Wootten-Afr) 2257 with FF, local music (Bruce-Eu)
- 4976 R Uganda at 2025 with continuous indigenous mx (Bruce-Eu)
- 4980 R Ghana with EE nx at 2100 (Bruce-Eu)
- 4985 R Ecclesia noted regularly for our winter at 2200-2330 (9 a.m. local time!) with PP amts, classical mx (Padula-Pac) 2315 with pops, PP amts (Heutte)
- 4990 NBC-Lagos weak with EE nx at 0600 (Heutte) 2240-2305* in EE with concert hour nx and headlines, anthem (Bruce-Eu, Cwikla, Padula-Pac)
- 4993 Unid PP stn often during May-June after 0400, PP amts, mx, not Brasil Central which is definitely on 4995; perhaps a new Angolan? (Heutte)
- 4995 R Brasil Central good-exc with EE pops at 0040-0110 (Lohe)
- 5010 R Cristal fair-poor at 0523 with SS, LA and pop mx (Alexander) 0720 with EE pops, ad for Banco de Reservas, Monte Carlo, etc., excellent (Lohe)
- 5015 Rdif Poços de Caldas at 0215 with PP over unid LA (Reeves)
- 5023 R Centinela del Sur with mx, SS ID to 0425*, some days past 0600, VG (Behr)
- 5026 LV de São Francisco on 5-22 with PP cmtry, ads, amts at 2345, QRN (Heutte)
- 5030 R Continente fair at 0450, SS talk, LA mx, IDs (Wallace)
- 5035 R Anhanguera good at 2315-2350 with US rock mx, PP amts, IDs (Heutte, Reeves)
- 5035 R Alma Ata good at 2350 with classical mx, RR (Wootten-Afr) OK winter ECNA?
- 5038 Bangui at 2035-2245 with FF amts, local mx, very good (Bruce-Eu, Burlew)
- 5045 RRI-Merauke dual 4066 from 0830 relaying Jayapura; at *1000 crushed by 5047
- 5040½ R Libertad de Junin at 0430 past 0600, Andeanmx, IDs (Behr) (Padula-Pac/)
- 5047 Lomé at 0535 with spirituals, amts in FF (Schnabel)
- 5050 R Mundial at 0050-0130, *0855-0945 with mx, IDs, TCs, Loteria de Táchira, het by ute on upper sideband; anthem and full ID at s/on (Lohe, Padula-Pac) 0925-1000 with SS, LA mx, nx (Tuchscherer) Almost left you out, John, hi! FH
- 5054t RRI-Ujungpandang assumed with chants at f/in 1050-1115 (Reeves)
- 5075 R Sutatenza with Mundo Noticias at 0025, very good (Wootten-Morocco)*
- 5095 R Sutatenza different than 5075, except during nx, also very good 0025**
- 5568 Ecoa de Puerto Martínez at 0100-0325 with SS mx, nx, weak-fair; one report of s/off at 0250* (Behr, Lineback, Yamron) This one has variable power, so Jensen's QSL sez 150 watts, while Dan Henderson has one for 90 watts! FH
- 5873½ LV de Honduras exc at 0400 with sports in network (Reeves)
- 5950 Harbin, Manchuria, noted at *0855, all CC pgm (Davis) FB, Bill! FH
- 5955 R Gazeta de São Paulo at 2355 with PP sports, jamming on at 0000 (Lohe)
- 5955 R Casino exc at *1000-1100 irr, LA mx, SS amts, ads, TCs, chimes (Agner, Reeves)
- 5955 TGNA-R Cultural good at 1100-1200 with LA mx, religious pgm (Cwikla, Agner)
- 5965 R Guíaba fair-good at 0000 with PP mx, ID (Lohe)
- 5965 SBC in PP to Brasil 2300, GG 2330, NF ex-17830 but irregularly only as may be

- 5965 heard on 17830 at times; perhaps a test (Padula-Pac)
 5970 RCI at 0845 with EE, Listener's Corner (Dolyak)
 5970 R El Sol, Peru, running late at 0600 with SS nx, mx, amnts (Heutte)
 5987 RRI-Menado now *0800 (ex-*0900) with request pgm (Padula-Pac)
 5990 HCJB with DK Party Line 0945-0955, amnts, ID, IS, very good (Fino)
 5995 R Australia good with EE nx, stock report (Lineback) 1203-1215 EE nx (Perdue)
 5995 R Mali at 2300-0000* with FF mx, amnts, definite ID, fair (Perdue, Gendron)
 5995 DW-Kigali with Serbo-Croat talks, cmtry, Mali underneath 2340 (Wootten-Afr)
 6000 R Inconfidencia good-exc at 2350 with PP nx (Lohe)
 6009v R Nac de El Salvador at 0400-0502* with orchestral mx, anthem (Behr) 1320 SS
 (Reeves) t Unid LA at 2330-0030 with ads, fast amnts and mx (Miller)
 6010 R Los Andes with GM ad, mx, SS at 1055-1110 (Lohe)
 6019 R Victoria with SS pgm, mx, IDs at 1115-1135 (Reeves)
 6020 R Nederland Bonaire at 0030-0050 with SS Estación de la Alegría, mx (Fino)
 6020 R Anzoátequi at *0957-1115 with SS mx, ads, prayer (Un momento con Dios),
 s/on with NA, IDs for Canal 1210 as listed MW outlet; perhaps just testing a
 few days as not hrd recently (Lohe) Could be new name for LV de Anaco? FH
 6020 LV de Colombia poor with man in SS talk about Latin America 2250-2305*(Cwikla)
 6025 NBC-Enugu (Biafra) at 2250-2305* with EE concert hour, nx, ID (Cwikla, Mayer)
 6025 R Portugal fair with EE cmtry, local mx at 0403-0425 (Perdue)
 6030 ORTF fair with EE nx in QRM 0605 (Heutte)
 6035 R Globo fair with ads, sambas at 0006 in PP (Miller)
 6037t TIFC at 0930 with SS and mx (Dolyak)
 6040 Deutsche Welle at *0130-0250* with EE nx, mx, cmtry (Higham)
 6045 RRI-Jakarta noted here at 0005 (10:05 a.m. local time!) with Indon nx (Padula)
 6055 R Rwanda very good at 2020-2101* with instrumental mx, FF ID, NA (Reeves)
 6055 R Australia good at 1135 with EE stock report, nx, pop mx (Dolyak)
 6060 RAI HS from Rome with All Night Svc, FF nx 0430; ITU lists Rome at 2300-0500,
 otherwise Cal tanisetta (Padula-Pac) Anyone with a recent QSL? FH
 6065 R Nac de Brasília with PP talk, mx at 0015-0040 (Lohe)
 6065 RNE with FF xmsn, folk mx 2217, NF ex-5985 due to QRM (Reeves)
 6066 R Super at 0725-0940 with La Noche Super pgm, TCs for Hora Super, good (Lohe)
 6070 CFRX at 1700 with EE nx, fair (Custodio, Higham)
 6070 R San Sebastián good with SS mx, ID at 1000-1030, QRM (Lohe)
 6080 R New Zealand at *0558 with Bell Bird IS, ID, poor (Castello) 0700-0815 with
 EE nx, cmtry, IDs //9540 (Agner, H.Peters, Treibel) (Reeves)
 6082 R Nac de Perú at 0135 with classical mx, cmtry (Miller) 1111 with Andean mx/
 6085 R Jornal do Comercio at 2350-0055 with futebol, ID (Lohe, Mayer, Zilmer)
 6090 R Belgrano, Argentina, on May22 with LA ballads, ID at 0033, good LA nite
 6090 R Luxembourg at 0030-0120 with EE, rock mx (Custodio, Mayer) (Miller)/
 6095 R Tupí de São Paulo good with futebol in PP at 2350 (Lohe)
 6095 LV del Centro fair with SS mx, ID, TC, in La Hora Super pgm at 0935 (Lohe)
 6100 NBC-Maidugari with local mx to 2300 EE nx, anthem at 2305*, poor (Mayer)
 6115 R Tupí - Rio at 2330-2345 with PP amnts, ads, IDs, but QRM (Lohe)
 6115 RIVC-Brazzaville with FF speech 0540, astounding level via long path at 0540
 (Padula-Pac)
 6120 4VEH with E E ID, mx, QRM at 2300 (Lohe)
 6125 R Nac de Brasil good with PP man and woman in talks, LA mx (Alexander)
 6125 VOA with RR at 0955, CC 1000, nx, cmtry, ID, IS (Fino)
 6130 CHNX fair with EE DJ pgm at 1137 (Miller) 2301 EE nx via LP, extremely rare
 this time period! (Padula)
 6134 R Peking via Tirana fair with hets at 2330, Chinese mx and SS amnts (Heutte)
 6135 RTV Gaucha in mess with PP amnts, ads at 2315, poor (Heutte)
 6135 R Warsaw fair at 0300 with EE, Polish mx, dual 9675 11815 15120 (Zilmer)
 6135 ORTF-Tahiti fair with amnts and mx in Tahitian at 0630 (Heutte)
 6140 LW6-Perth poor with talk, interviews, stock report in EE at 1015 (Gendron)
 6142 R El Sol very good at 0742 with LA mx, SS (Alexander)
 6144 NBC-Calabar on long path after DW s/off 0550*, African vocals, EE nx 0600,
 noted often in 2200-2305* period (Padula-Pac) 2230-2305* with mx, nx headlines
 6145 RCI here ex-11825 for EE/FF to Eu at 0700-0800 (Padula-Pac) (Cwikla)/
 6147 R Citadelle at 2340-0000 fine with FF mx, amnts, rel pgm (Lohe, Heutte)
 6150 VLR6-Melbourne with Music Hall at 1114, poor to fair (Miller)
 6150 R Corporación, Chile, at 0300-0400* with NA, ID; lket LV de Chile (Lineback)

- 6160 CKZN via long route at 2320 (9:20 a.m. local!) to eventual fade 2345, very rare reception and only possible time here to hear this outlet (Padula-Pac)
- 6160 RCN good at 0725 with SS mx, ID (Lohe)
- 6165 R Cultura de São Paulo at 2345 with PP Música Popular Brasileira (Lohe) 0030 with PP ID, fanfare, marching mx, ads, talks, fair (Mayer)
- 6170: ORTF-Cayenne with FF talk, native mx (Gendron)
- 6170 R Nac de Venezuela via LP with full SS ID 2210, unusual (Padula-Pac) (Padula)
- 6175 A Voz de Angola at 0640 with PP and mx (Heutte) 2215-2230 with PP ballads/
- 6175 R Guarani at 0720-0740 and 2300-0000 with PP mx, ads, TC, Brazilian mx, educational pgm, Projeto Minerva, good-exc (Lohe)
- 6175 BBC now here dual all the rest for EE WS at *0000 with usual broadcast to NA very strong (Behr, Padula-Pac)

That's it for this month, I guess. I only received one pack of reports from Mac Leonhardt, so if yours wasn't printed, that is what happened. This month is the time for big experiments. This is being typed on an office typewriter, so there is no guarantee I won't have to return to the original soon. But what do you think of dropping the country name where the station is known well enough? It saves quite a lot of space, and as you can see we have a few more program details in this month. Reception here has been up and and, down, mostly down. Incidentally, I haven't used an electric typewriter for more than two years, which may explain all the mistakes, particularly with that darn $\frac{1}{2}$ which is up where the ' should be, hi. How was your month? 73-Fred Heutte, Jr. WA3QIA/WDX3FH 1600 Newton Street, NE Washington DC 20018

HEADQUARTERS NOTE: Just a reminder that when you write an editor expecting a reply, please include an SASE for the reply. The same goes when writing HDQ, except that postage is included in the prices quoted for supplies from HDQ, so SASE not necessary when ordering supplies.

SPECIAL REPORT FROM THE 1973 MEETING OF THE EUROPEAN DX COUNCIL via Serge Neumann.

The 7th annual meeting of the EDXC took place June 10 & 11 at Oslo, Norway. Some items of interest to NA DXers:

- *The Frequency Registration Committee is assisting SWBCers find suitable freqs for English transmissions to Europe. They are working to establish a credible monitoring system.
 - *The Propagation Research Committee indicates a survey of the 90 and 60 meter bands will be available later this summer. This should also be of interest to NA DXers.
 - *The question of copyright in club magazines was discussed.
 - *The matter of a common "country list" for all EDXC countries was considered on the second day. This might be something NA clubs would want to consider.
 - * It was noted that EDXC is anxious to work with ANARC in any ways possible.
- "With the last annual meeting, the EDXC has proven that it is and can be a viable force influencing both the hobbyists through their clubs and the broadcasters. But the EDXC realizes that it isn't just a matter of influence, but cooperation with and work for these people. The results of the last conference clearly indicate that the critics of the EDXC can not call the organization one that can't come to decisions. The EDXC made many this last meeting - all good ones."

(Serge is now with Radio Nederland. We look forward to further information and comment from him on the status of the hobby in Europe, and in general. He also indicates we can look forward to seeing the results of his DXing with a new SPR4 in the pages of the Log Report.)

FOR SALE: Allied 2516 mint condition, shipping carton & manual included. The 2516 is a ham band only dual conversion rx, circa 1970). Shipping not included. A trade of a general coverage is acceptable but a good portable is also good ie: Nord-Mende. \$100.00. Michael Herman, 3322 S.Austin Blvd, Cicero, Ill 60650.

FOR SALE: SX190 receiver, 2 extra crystals & matching speaker. Used 1 year. Got me 100 countries. Neal Kolb, Room 160, 1212 Florida Ave., Tampa, Fla. 33602.

- 6203 INDONESIA RRI Enartoli (Irian Jaya) II vocals, f/in here around 0730, often s/off 0903, sometimes runs later, after local ID. This is in south-west of Irian Jaya (West Irian) May 20 (Padula-Oc). /---Libertagao likely-dp
- 6245 Unid station in lang 0430-0500 w/ mainly tx by a woman; maybe cland(Heutte)
- 6290 UNID China or N Korea 1130-1140 lang tx, P, 5/28(Lineback)
- 7105 N VIETNAM VoV 1150-1200 VV?, tx by woman, G, 5/28(Lineback)
- 7125 GUINEA Conakry 0345 w/ hi-life + balafon mx(Schnabel) AA svce-dp
- 7140t KENYA VoK 0451 Afr mx, no anmts 0500, CW QRM (Wallace) More likely 'tis BBC
- 7185 GREAT BRITAIN BBC 0330 EE sports review (Zilmer)
- 7190 UNID 0550 FF on 5/28, covered by VOA 0600*(Wallace)Forsooth! you mean *0600?
- 7215 SWITZERLAND ICRC 1700 EE, also FF, GG, SS, AA (Wootten-Af)
- 7215 INDIA AIR P at 2200 w/ EE mx in GOS (Heutte)
- 7215 BRUNEI Tutong 1300 strong carrier, fair mod, M+W in EE, nx 1315(Treibel)
- 7295NF MALAGASY REP RN Talata 2110 FF to Africa 30 over S9 (Reeves)
- *****Undoubtedly the shortest 41 report in ages!
- 8965 PR CHINA CC HS 1400 t/i-1730*, F-G, //8980,11290,11330,15590(Davis)
- 8980 PRCHINA CC HS // 8965, usually much weaker here (Davis)
- 9009 ISRAEL IBA 0345 RR, thru W/.ID then jam (On toast I hope, hi-dp)0500 EE to NA, sometimes good but mostly poor, sometimes no signal at all, hi! 15165 at 2000 best of all (Schnabel)
- 9455 EGYPT Cairo 0440-0501t/o ME mx,tx; ID +IS at 0500 (Tuchscherer)
- 9493 PERU R Tacna clear though weak at 0100 w/ SS nx, anmts, echoes (Heutte)
- 9500 USSR Magadan per Bill Davis 0805-0830 class mx, E-G (Reeves) 1445-1500 lt mx, IS, abrupt close (Tuchscherer)
- 9505NF PHILIPPINES FEBC RR sermon 0935, ex-9715 May 24 (Padula-Oc)
- 9505 CZECHOSLOVAKIA Prague1500 IS, ID, into EE to Eur (Mayer)
- 9515 N KOREA Pyonyang *1158 w/ IS, then ID into EE nx, past 1300(Nebron,Perdue)
- 9520 NEW ZEALAND 1120 EE classical + march mx (Zilmer)
- 9520 PAPUA 0625-0730 EE mx (pop), variety show (Peters, Yamron, Heutte)
- 9525 INDIA AIR 2200 EE nx (Zilmer)
- 9525 S AFRICA 0835-0915 PP news, anmts, many songs,G (Fino)
- 9533 PERU R Nacional, Tacna, 0130 Peruvian mx, SS anmts, strong (Behr)
- 9535 AUSTRALIA RA 2130 s/on in VV after EE ID (Cwikla)
- 9535 INDIA AIR *1225-1235* EE px sked, nx (Zilmer)
- 9540 NEW ZEALAND RNZ 0630-0700 EE mx, DX World (Nebron)
- 9540 POLAND Warsaw 2030-2100 EE nx +tx, M+W, some mx (Tuchscherer)
- 9545 BRAZIL R Universo 0015-0123 PP sports event, best at DW 0110*(Tuchscherer)
- 9555 PHILIPPINES VoA 1100 CC, EE ID, then CC to SEA (Zilmer)
- 9555 EL SALVADOR YSS 1550-1650 fast SS tx&TCs, IDs (Reeves)
- 9570 NETH ANTILLES TWR 0950-1000 SS rx pgm, 1000 into GG (Lohe) (Mayer)
- 9570 CHILE R Portales 1045 SS tx (Zilmer)0139 ID, fanfare: "76 Trombones" /
- 9577 PHILIPPINES f/i 0800(on 9580), IDs as : "Radio Phillipines, the Overseas Service of the Voice of the Philippines, National Media Production Center, Broadcasting on 9.58 megacycles", f/i 1614 on May 28 to S 9, very slight fade to 8 6 at 1903* (Reeves)F at 1650 w/ EE tx, ID (Heutte)
- 9581v NICARAGUA R Mar the usual 1300-1610, ID: "R Musica Popular de Mar" (Reeves)
- 9585 BRAZIL R Excelsior1000-1020 EE mx, PP ID (Lohe)2315 PP tx, local mx(Zilmer)
- 9585 FRANCE ORTF lang tx+mx to 2200*, 332 (Zilmer)
- 9590 CHILE R Presidente Balmaceda 2325 SS tx (Zilmer)
- 9600 MEXICO R Universidad 0206-0231 t/o SS nx, lt mx; usually 3 deep(Tuchscherer) hd 1220-1615f/o, all SS w/ cultural programs(EE by Radio, Italian lessons, classical mx); Loud (Reeves)
- 9615 MOROCCO RDTVM 0155 AA singing, //11735 (Flegle)
- 9615NF ENGLAND BEC replay of CBC RR 0330-0345, NF ex-6015(Padula)
- 9618½ MOZAMBIQUE RCM PP tx, US+PP pops, 1245-1400* w/ RCM chime+ID. 10 kW, via long path, very irregular(Reeves) I believe short path is also possible-dp
- 9620 BRAZIL R Novo de Julho 2218 PP mx to 2230 nx(D'Angelo)0000 PP tx, ads jingles, accordion mx, 433, May 17 (Zilmer)
- 9625 PERU R Atlantida Strong 1410-1513 when smeared by RCI (Reeves)0950-1005 Andean mx, SS tx, F, June 4 (Lohe)
- 9635 BRAZIL R Aparecida 1000-1015 PP noticias, F, June 4 (Lohe)
- 9635 COLUMBIA 0000 SS nx, //4965; 600 Hz. het (Heutte) R Nac

- 9640 S KOREA VOKF 1100 EE nx (Zilmer)
 9645 COSTA RICA TIFC EE rx to 0437* w/ nat anthem,G(Brewer)SS rx 1630(Reeves)
 9645 NORWAY R Norway 0400-0408 t/o Norwegian mx, EE ID, tx by man(Tuchscherer)
 9645 VATICAN VR 2045-2100 EE rx pgm, bit of mx (Tuchscherer)
 9655NF AUSTRIA OR, "Report from Austria" in EE to CA 0340, NF ex-11725(Padula-Oc)
 9655NF BELGIUM RTE *2215 Dutch, EE 2300-2315,0040,ex9550(Perdue,Padula-Oc,
 Tuchscherer,Mayer, Bagley) //4970
 9662½ VENEZUELA R Rumbos 0240 SS vocals, clea ID, here a few days in May (Heutte)/
 9665 PERÚ R Eco 1930 SS rx mx, ID by M, poor(Wallace) 31mb Peruvians are thick
 here during daylight hours in the summer-dp ; cf 9625,also 9675, 9695
 9665 BRAZIL R Nac, Brasilia PP anmts 0140, some jamming to the side (Heutte)
 9670 PORTUGAL Adventist World Radib 2100-2115 w/ "Voice of Prophecy" (Smith)
 9675 JAPAN NHK 1109-1116 EE DX program, continue in II (Tuchscherer)
 9675 BRAZIL R Diario da Manha 0950-1030 sports nx, ads, native mx (Lohe, Gendron)
 0155 PP tx (Zilmer)
 9675 POLAND Warsaw 0310 EE : "Topic of the Day", mx (Zilmer)
 9675 PERÚ R Del Pacifico 1330-1730 f/o, E (Reeves) 0230 PP tx (Heutte)
 9685 BRAZIL R Gazeta 2230-2240, 0100 PP tx, M+W IDs (Zilmer, Tuchscherer) /
 9695 S AFRICA R RSA EE to Eur+ME, Afrikaans lesson, 1940 (Reeves)
 9695 BRAZIL R Rio Mar 1330-1805 lost, often 20 over S9 w/ very slow fade 'cycle'
 s/on after 1300. Only one of the 31 mb 'freaks'that is heard regularly.
 Weird! Heard later than high powered HCJB (Reeves)2310 PP nx, clear (Heutte)
 9705 BRAZIL R Mauá fighting it out with RSA at 2330, W in PP (Heutte)
 9710NF FRANCE ORTF EE nx for Africa 0525 excellent level (Padula-Oc)
 9720 S AFRICA Springbok Radio EE play 0525, HCJB *0530, co-channel(Padula-Oc)
 9720 SRI LANKA SLBC EE tx, nx, IDs, TCS, pops, E 1300-1530f/o (Reeves)
 9735 RWANDA DW 1721 EE, local ID by YL at 1743 (Bruce-Eu) (Tuchscherer)
 9740 MALAYSIA BRCFES Tebrau 1030 EE nx(Zilmer)1405-1415 EE world nx, cmtry/
 9745 INDONESIA RRI Merauke often noted during our daytime, 5May 2245 w/ II pops
 9745 TAIWAN Taichung 1100 CC tx, commentary over HCJB; noted regularly but is
 unlisted in WRTH, ITU lists 1000-1700,2100-0000,0400-0700 with 7.5 kW to
 'China' (Padula-Oc) The item above this one also should be credited to Bob
 9750 VENEZUELA R Occidente on freq for a change, 1500 ID (Reeves)
 9760 USSR Ivanofrankovsk list 0000-0031 RR opera, 'Rodina' ID (Tuchscherer)
 9840 AZERBAIDJAN SSR Baku *1900 Turkish after IS, ID: "Burası Baku" (Bruce-Eu)
 70009 CLANDESTINE R Liberation in FF w/ nx or tx at 2335, VG (Heutte)
 10530 KAZAKH SSR Alma Ata 1345* RR tx, G (Wootten)Holy harmonics! s/on, right? -dp
 11290 PR CHINA CC HS *2000-1700* (Davis)
 11330 PR CHINA CC HS now back on summer sked; *2335-1730* (Davis)
 11350 N KOREA KCBS KK HS *1950-0420*(Davis) Complete sked for 11350? -dp
 11375 PR CHINA RP way down in the noise at 0000 EIR IS, open in lang (Heutte)
 11505 PR CHINA CC HS 0550 t/i, not // the 11290 group, P, ute QRM (Davis)
 11515 PR CHINA *1630 AA-1725*, signal best early part of sked (Davis)
 11600 PR CHINA RP II *1400-1425* (Davis)
 11620 INDIA AIR EE to Eur 2000-2231*, G, //11740 weaker(Reeves,Zilmer, Mayer)
 11630 EGYPT Cairo 0105-150 t/o nx, mx, drama at 0145, AA (Tuchscherer)
 1164ONF USSR RM EE to NA 2300,0000,0100 etc., many //s (Reeves, Heutte)
 11650 BANGLADESH Dacca EE 1700-1800 nx, commentary, native mx(Rakow,Treibel,Mayer)
 1166ONF PR CHINA RP SS to Eur 2115-2125 M+W tx, IDs, NA at s/off (Reeves)
 11673 PAKISTAN RP *1300 EE, nx (Zilmer) 332
 11680 ENGLAND BBC AA chants 0350-0450, E (Reeves)
 11685 PR CHINA EE to ECNA 1240 (Reeves)
 11690 USSR Majak HS II *2300 past 2340 (Heutte,Reeves, Tuchscherer)

*****Please remember to include dates for those items which constitute unusual reception. Meaningful research into propagation necessitates the accurate reporting of dates as well as the various other reception parameters. Many thanks to those who have supported LR this month, especially to those who report regularly to LR. Remember: It's YOUR Club; support it! Au revoir-dp

- 11705 SWEDEN RS 0330 EE, mx, Panorama, to WNA, G-E (Vorán, Castello, Zilmer)
 11705 N ZEALAND RNZ 1130 EE, cmntry, F (Zilmer)
 11705 JAPAN NHK 1630 EE, nx to S Asia & Africa, F (Zilmer)
 11705NF ISRAEL IBA 2200 FF, IS, ID, nx; 0500 EE, IS, nx, //11945, G (Mayer)
 11710 N CALEDONIA ORTF 1045 FF, mx, P (Zilmer)
 11710 ARGENTINA RAE 2300-2310 EE, nx, cmntry, ID, P (Zilmer, D'Angelo)
 11715 ALGERIA RTVA 2340-2355 AA, chants, //11965 not found, F (Heutte, Yamron)
 11715 ECUADOR HCJB 0330 EE, rel px, E (Machen)
 11715 SWITZERLAND SBC 2100 EE, 2130 GG, 0200 EE, 0414 II, 0450 EE, 0459 II,
 various px, mx, G-E (Rakow, Machen, Kolb, Dolyak, Zilmer)
 11725 SRI LANKA RC 1643-1730 EE, NA mx, "World Tomorrow", //15120, F (Rakow)
 11725 VATICAN VR *0100-0115* EE, rel px, E (Higham)
 11730 NETH ANT RN 0600, *0630, 2140-2200 EE, mx & var px; *0800 FF, mx, nx,
 G-E (Dolyak, Machen, Fino)
 11735 USSR RM 0720-0800 RR, class and mod mx, //11870, 11930, G (Wootten-Morocco)
 11740 MALAGASY REP RN *1400 EE, pops, nx, tlk, G (Machen). Malagasy assumed-ed.
 11745 ECUADOR HCJB 1138-1158 JJ, rel tlk; *0000 EE, rel px, G-E (Machen, Fino)
 11745 USSR RP&P *0000 EE, IS, s/on, P, smothered by HCJB at 0002, (Mayer)
 11755 ARGENTINA R el Mundo 0010 SS, M&W tlk, splash from RHC, weak, (Heutte)
 11760 CUBA RHC *1100, *0300-0330 FF, 0330-0355 EE, nx, tlk, G-E (Fino, Machen)
 11765 BRAZIL R Dif São Paulo 0015-0030 PP, sports, //15155, G (Zilmer, Heutte)
 11765 AUSTRALIA RA 1215, cmntry on N Guinea, DX, nx; 0710 EE, mailbag, P
 (Dolyak, Eichenhorn)
 11765 BULGARIA RS *2105 EE, nx to Africa, P (Zilmer), G (Wootten-Morocco)
 11770 INDONESIA RRI-Jakarta 0715 Indon, HS, rarely hrd this time, (Padula-Aust)
 11770 MEXICO R Mex 1300 SS, nx, SS mx, G (Dolyak)
 11780NF ENGLAND BBC 0230 EE, px abt lost ships; 0330 RR, px by CBC, ex 7285,
 G (Padula-Australia, Eichenhorn)
 11780 MOZAMBIQUE RCM 0603 EE, pops, weak, (Peters)
 11785 BRAZIL R Guaíba 2350-0010 PP, ID, nx, F (Mayer, D'Angelo)
 11785 NETH ANT TWR 0445 EE s/on then AA, G (Castello)
 11790 LEBANON RL 0132, 0137, 0230-0256 EE, nx, tlk abt Lebanon, mx, G (Brewer,
 Tuchscherer, Lineback, Bagley, Agner)
 11790 MOROCCO VoA 0330-0600 East Europe Langs, only Bulgarian (0346-0400) is
 well jammed, //9635 & 7220 also jammed that time, (Reeves)
 11790NF SWEDEN RS 1830 EE, nx, DX px, Panorama, to ME, F (Zilmer, Wootten-Morocco)
 11795 BRAZIL R Nac 2350-0020 PP, tlk, ads, mx, ID, mix w/Zaire, F (Heutte,
 D'Angelo)
 11795 GERMANY (FR) DW 0800 EE, nx, GG mx, E (Dolyak)
 11800 SRI LANKA RC 1400-1730* Hindi, usually good (Davis)
 11800 ITALY RAI 1935 EE, nx, cmntry, mx, P (Wootten-Morocco)
 11805 BRAZIL R Globo 0025 PP, ads, tlk, //6035; 0200 PP, ads, Brazilian mx, E
 (Heutte, Schnabel)
 11805 USA AFRTS Delano 0730 EE, usual px, P (Bruce-Scotland) Mayer
 11810NF POLAND PR 0300 EE, 0337 Polish, //11815, 15120, anmts, light mx, G (Behr,/
 11810 ITALY RAI 0100-0145 EE, II, FF, nx, tlk, mx, ID & freq., F-E (Flegle,
 Dolyak, Bagley, Fino)
 11815 POLAND PR 0300-0354 EE, Polish, nx, tlk, F (Zilmer, Rakow)
 11815 NETH ANT TWR 1115 EE, rel px & mx, G (Dolyak)
 11820NF? GERMANY (DR) RBI 0125 GG, preview of first and second px (HS?), PP to
 Brazil at 0130, G (Rakow)
 11835 URUGUAY R El Espectador 0000 SS, nx, F (Zilmer)
 11835 HAITI 4VEH 1130 EE, rel px, mx, F (Eichenhorn)
 11840 PORTUGAL R Nac *0215 FF, nx, press review, letters answered, E (Rakow)
 11840NF GERMANY (DR) RBI 0324-0413* EE, press review, px on Queen Isabell, QRM de
 Portugal, F (Rakow, Perdue): 0415-0500* GG, //11823, QRM, (Behr)
 11840NF MALAGASY REP RN 0050 EE to S Asia, bad QRM de Portugal, (Padula-Australia)
 11845NF VATICAN VR *0100 EE, 0115-0130* FF, IS, tlk, nx, //9605, 5995, G-E (Behr,
 Rakow, Brewer, Padula-Australia)
 11845 ECUADOR HCJB 2106, 1050 GG, rel px, P (Padula-Australia, Rakow)
 11850 NORWAY RN 2000 EE, tlk, //15175, F (Mayer); *0500 NN & EE, nx in NN,
 G (Brewer)
 11850 USSR RM 0215 EE, symphony, tlk abt trade, G (Dolyak)

- 11855 USA WNYW *0000 SS/EE, light mx, E (Machen)
 11855 BRAZIL R America 0030 PP, futbol cmntry, (Heutte)
 11860 CANADA RCI 2140 EE, DX px, C&W mx, tlc, E (Machen)
 11860 TAIWAN VoFC 2150 JJ, new tx? (Padula-Australia)
 11860NF NORWAY RN 0320 NN to ME, QRM de Moscow LA svc, ex 9550. R Moscow appears to be saturating bands, (Padula-Australia)
 11865 BRAZIL R C de Pernambuco, PP, back on nom freq., nx, fanfare, mention of Pernambuco, (Heutte). Time please-ed.
 11865 PORTUGAL DW Sines *2200, *0414 Bulgarian, nx, ID, G (Cwikla, Padula-Aust)
 11865 USA VoA Dixon *0730, local ID into Asian Lang, P (Bruce-Scotland)
 11870RF USSR RM 0001 EE to NA, (Heutte)
 11870NF GERMANY (DR) RBI 0450 EE to Africa, ex 9500, (Padula-Australia)
 11875 ANGOLA Em Oficial 1500-1545 EE, ID, YW, mx, (Smith); 0710 PP tlc, ballads, (Padula-Australia)
 11880 TURKEY VoT *2200-2230* EE, nx, press review, TT mx, G (Cwikla, Lineback)
 11885 UNID 0105-0145 AA, chants, F (Heutte). Cairo listed-ed.
 11890NF MONACO TWR 0550 RR, rel px, ex 9715, (Padula-Australia)
 11890 GERMANY (DR) RBI 0100 EE, 0157 GG, 0250, 0305 EE, nx, cmntry, G-E (Zilmer, Castello, Rakow, Eichenhorn)
 11900 S AFRICA RSA 0430 EE to Africa and ME, E (Castello)
 11900 USSR RM 0006 EE, nx, cmntry, E (Rakow)
 11905 ITALY RAI 2314-2323 II, mx, ID, tx to Cent Am, (D'Angelo)
 11905 GERMANY (FR) DW 2330 GG for E Asia, Aust, NZ, new tx ex 6010, over RAI, E (Padula-Australia)
 11910 CUBA RHC 0330 EE, VoV px, G (Machen)
 11915 ENGLAND VoA Woolferton *2000 Serbo-Croat, EE ID "VoA broadcasting on the facilities of the BBC", E (Cwikla)
 11920 PHILIPPINES FBBC 1155, 1220 EE, nx, rel px, P-F (Yamron, Miller)
 11920 GERMANY (FR) DW 2130-2145 GG to Africa, M&W tlc, amts, G (Fino)
 11920 IVORY COAST RTVI 2145 FF, African mx, G (Pyatt)
 11925 SPAIN RNE 0205-0225 EE, SS mx, nx, amts, IS, ID, G (Fino)
 11930 CUBA RHC *0058 EE, ID, E (Rakow)
 11930NF NETH ANT TWR *0350 EE, burried by RHC, (Treibel); 0430 EE ID into Hungarian rel px, E (Perdue)
 11940t KUWAIT presumed at 1145 with AA chants, (Reeves). Cairo also listed-ed.
 11940 ROMANIA RB 2100, 2125 EE, 0330 EE ID, //9690, nx, F-G (Vorran, Peters, Zilmer)
 11945 ENGLAND BBC 0540-0544 EE, drama, into lang at 0544, no sign IBA, (Kolb)
 11945NF GERMANY (FR) DW 0215 EE to Asia, ex 7210, QRM de RM LA svc, (Padula-Aust)
 11945 ISRAEL IBA 0508 EE, nx, wx, oriental mx, FF at 0515, (Rakow)
 11945 CANADA RCI 0205-0215 EE, M w/nx, wx, cmntry on Canadian history, IS, (Fino)
 11950 LIBERIA ELWA 0610 EE ID into vern., f/o, 15 note flute IS, this is not S Vietnam as rept May LR, (Reeves)
 11955 SWEDEN RS 0000 SS, 0030 EE, 0100 Swedish, 0200-0220 EE, various px, QRM de VoA, F-G (Zilmer, Mayer, Agner, Tuchscherer)
 11955 USA VoA Greenville 0045-0100 PP/EE to Brazil, nx, opera mx, E (Fino)
 11960 NETHERLANDS RN Lopik *1230 SS, Happy Sta px, G (Machen)
 11960NF AUSTRIA ORF 0100 GG, mx, 0131 SS, nx, QRM de USSR, (Behr)
 11965 BRAZIL R Record 0035, 0247 PP, soccer coverage, mx, G (Heutte, Schnabel)
 11965 RWANDA DW Kigali 2027 GG, IS, ID, nx, E (Miller)
 11970NF SWEDEN RS 2045 EE to F East, ex 9715, QRM de Tunisia, (Padula-Australia)
 11980NF? AUSTRALIA RA 0400 EE, sports, nx, mx, E (Machen)
 11985 ALBANIA RT 1100 EE, //9500, anti-Vatican cmntry, G (Wootten-Morocco)
 11990 CZECHOSLOVAKIA RP 0135-0159 EE, 0200-0215 SS, pops, ID, IS, freq, nx, (Fino)
 12000 USSR R Kiev 0340 EE, usual prop, G (Wallace)
 12000 AUSTRALIA VNG 0600-0615 EE, time signal, G (Nebron)
 12006v CLAND R Portugal Livre *2300-2350* PP, //11507, (Behr)
 12050 USSR RM 2330-0025 EE, cmntry, opera mx, ID, IS, E (Fino)
 12095 ENGLAND BBC 0900, 1503 EE, pops, nx, cmntry, G (Machen)
 12140 CLAND R Espana Independiente 2145 SS, ID at 2200, mx, anti-Franco prop, (Wootten-Morocco). See June FRENEX CB-5 for QSL info.
 14480v CLAND R Espana Independiente 1403-1415* SS, tlc, jammed, P (Gendron)
 14670 CANADA CHU 0021 time, E(Heutte)

- 15012v N VIETNAM 1430 t/in to 1858*, 1430 JJ, 1500 VV, 1530 EE, 1600 JJ, 1630 VV, 1700 SEA lang, 1800 EE, 1830 FF, usually F-E, nx, ID, usual px, (Davis, also Smith & Behr)
- 15017 CLAND Liberation R 1600-1657 VV, not listed in sched, but there for months just 4 khz up from VoV, (Behr)
- 15030 CHINA RP *1500-1555 CC, overseas svc, usually F (Davis)
- 15060 CHINA RP *1830-1925* FF, prob to Africa, (Davis)
- 15080 CHINA RP *1500-1545t/o, CC, overseas svc, not // 15030, (Davis)
- 15084 IRAN Teheran f/in 1500, usually good to 1900, occasionally to 2230*, Farsi, to identify, listen for time signal, a single tone pulse about 1/2sec long approx 75 seconds after the half hour. Px is nx, tlks, western and eastern mx relayed from Teheran MW sta, (Davis); No EE 2000, GG 2045-2130 and Farsi to 2232* heard, NA, tone and Farsi nx on half hour, (Reeves).
WRTH 73 sched wrong.
- 15085 EGYPT RC 0145-0201* SS to LA, F-P, //9475, (Reeves)
- 15095 CHINA RP 1400-1455, 1500-1655 EE, E (Davis)
- 15100NF USSR R Kiev 0030 EE, via Asian tx, //12000, 11900, 9530, and others ann. (17.77, 15.24, 15.21, 12.05, & 11.72, all Asian) (Behr)
- 15105 BRAZIL R Rural 2325-2329* PP, soft mx, ID before s/off, G (Gendron) Kolb)
- 15110 N ZEALAND RNZ 0310, 0416, 0200-0230 EE, concert, pops, F (Zilmer, Smith, /GERMANY (FR) RFE 2350-0010 Czech, nx, cmntry, press review, ID at 0000 per WRTH, jammed, (Heutte)
- 15115 ECUADOR HCJB 1615-1629 EE, musical mailbag, G (Fino)
- 15120 FRANCE ORTF 2330-0000 FF, light and pop mx, nx, ID, t/k, (Fino)
- 15120 POLAND PR 0300 EE, Polish mx, nx, cmntry, F (Zilmer)
- 15125 MEXICO R Mex 0200 SS, mx, (Smith)
- 15145 SPAIN RNE 2205-2310 SS, SS mx, nx, cmntry, E (Fino)
- 15147 BRAZIL R Nac 0100 PP, t/k, mx, (Megesy)
- 15150 USSR RM 0220 PP to LA, "Atencion: Aqui Moscou", no Chile, (Reeves)
- 15160 AUSTRALIA RA 0417 EE, mx, P (Kolb)
- 15160 HUNGARY RB 1312 GG, GG mx, F (Miller)
- 15160NF S AFRICA RSA 0800 EE to NZ, ex 21545, severe QRM de RA & Algeria; to Australia 0900-0950 when clear of QRM, (Padula-Australia)
- 15165 ISRAEL IBA *2000-2045*, 2105-2120, EE, nx, ID, mx, ann 7 freq., generally good (Behr, Zilmer, Mayer, Miller, Nebron, Schnabel)
- 15165 DENMARK RD 1400, 1600, 1815, EE ID into Danish for NA and Greenland, G (Schnabel, Voran, Smith). For those fortunate enough to speak Danish-hi.
- 15185 FINLAND RF 1400-1430, 1810 EE, request px, cmntry, mx, lbx, F (Wallace, Smith, Eichenhorn, Megesy)
- 15190 BRAZIL R Inconfidencia 2245 PP, //15155, P (Zilmer)
- 15190 CONGO RIVC 1730, FF harangue, 1850 FF mx, nx, (Schnabel, Megesy)
- 15195 SPAIN RNE SS to LA, G (Alexander). Time please-ed.
- 15195 JAPAN NHK 0905 EE, mx, F (Eichenhorn)
- 15200 USSR RP&P 1550 EE, propaganda, (Schnabel)
- 15200NF AUSTRIA ORF 1830-1845* EE, nx, cmntry, pops, into FF, F (Zilmer)
- 15205NF PAKISTAN RP EE GOS, nx, cmntry, //11885 (Padula-Australia). Time please-ed.
- 15225 USA VoA Greenville 1740-1830 EE to Africa, various px, G (Fino)
- 15230 AUSTRALIA Melbourne VLHL5 0610 EE, man t/king, (Heutte)
- 15235 BELGIUM RTB 2330 EE/SS to N&S Am., nx, P (Alexander)
- 15235NF MOROCCO UNR via Tangier 0630 EE mx, ex 15310, (Padula-Australia)
- 15235 USA VoA Greenville, 1630 Czech, 1700 Lith, 1730 Hung, 1900 Polish, EE anns, various px, (Fino)
- 15245NF USSR RM 0330 EE to WCNA, //15210, 15180, 17865, (Behr)
- 15245NF PORTUGAL DW Sines 2205 Bulgarian nx, ex 9650 (Padula-Australia)
- 15245 ZAIRE LV du Zaire 1905-2015 FF, t/k, local mx, several ID, F (Cwikla)
- 15250 ROMANIA RB 1302 EE, Rom. nx, G (Miller)
- 15260 JAPAN FEN 0615 American DJ-pops, 1 kw, F (Treibel)
- 15260 ASCENSION IS BBC 2255 EE, WS, F (D'Angelo)
- 15265 AFGHANISTAN Kabul 1745-1826*, 1830*-GG, EE nx at 1800-1808, ID at 1815, local and US mx, G (Mayer, Reeves)
- 15265 ISRAEL IBA *2200-2246 FF, F, //11960 G, (Behr)
- 15273 URUGUAY SODRE 0115 SS, rapid t/k, P (Zilmer)
- 15290 SYRIA R Damascus 0300 AA, chant mx, F (Zilmer)

- 15290 PHILIPPINES VoA 2330 EE, Bx Show, P (Gendron)
 15295t MOZAMBIQUE RCM 0000, mx, ID as Em Nac, //15315, 11840, 11935, 6025, P (Zilmer). Possibly Portugal NF rather than RCM-ed.
 15305 SWITZ SBC 2102-2125 EE, dateline, G (Perdue)
 15315NF ECUADOR HCJB 2106 GG, 2130 SS, E, //17870NF, (Rakow)
 15320NF GERMANY (FR) DW 0640 GG, nx to Africa, ex 15235, (Padula-Australia)
 15320 NETH ANT RN *2257 SS, IS, //15385, G (D'Angelo)
 15320NF MALAGASY REP RN 1130 EE to W Aust ex 15130, G (Padula-Australia, Zilmer)
 15320NF GERMANY (DR) RBI 1130, Hindi, ex 15255, to S Asia, QRM RM Asian svc, (Padula-Australia)
 15325 CANADA RCI 1615 Czech, 1630 EE, 1700 FF, nx, pops, cmntry, G (Fino)
 15335 S KOREA VoFK 0300 EE, freq sched, nx; 0920-0930* EE, P (Zilmer, Eichenhorn)
 15335 AUSTRIA ORF *1830-1845* EE, nx, cmntry, P (Zilmer)
 15335 FRANCE ORTF 1415 FF, pops, P (Zilmer)
 15343.5 ARGENTINA RAE 2130-2340* SS, mx, (Behr); 1930 SS sports, F (Zilmer); 2210-2245 Sports, (Padula-Australia)
 15345NF NORWAY RN 0815 EE, Norway this Week, to Aust/NZ/FEast, ex 17800, QRM de R Liberty, Taiwan 15340, (Padula-Australia)
 15345NF INDONESIA RRI Jayapura 2200-2230 Indon, local ID 2230, never hrd before, noted 6/2; Indon & western pops, poor mod, good mx, some fade, unlist WRTH, registered ITU 5 kw, (Padula-Australia)
 15365 CANARY IS RNE 0300-0310 SS, ID, mx, nx, F (Vorán, Alexander, Eichenhorn)
 15385 CHINA RP 0300-0355, 0400-0455 EE, //15060, 17855, 17735, (Davis)
 15400 IRAQ R Baghdad 0300 AA, chants, daily since 5/7, F (Mayer)
 15400 ASCENSION IS BBC 1224 EE, band mx, F (Miller)
 15415 KUWAIT RK 1830, *1930-2200*, nx, pops, tlk, G (Higham, Wallace)
 15420 CYPRUS BBC 1346 EE, tlk, F (Miller)
 15425 AUSTRALIA Perth VLW15 0605 EE, Fats Waller mx, G (Heutte)
 15455 BANGLADESH RB *1230-1300* EE, nx, lbx, mx, P-F (Zilmer, Wootten-Morocco)
 15460 USSR Loc? 0230, Majak HS II, IS 4 times, Adosi Majak, nx by W, (Heutte)
 15505 USSR RM 0215 EE, tlk, F (Perdue); R Kiev 0055 EE, list Sverdlovsk, (Heutte)
 15510 CHINA RP 1300-1355 EE to SEA, ann //9290, 11600, 15240, (Davis)
 15520 BANGLADESH RB 1703-1755, nx, cmntry, oriental mx, P, QRM&het, (Rakow)
 15545 CHINA RP 0500 CC HS, heard occ., weak, ute QRM, (Davis)
 15590 CHINA RP 0400, 1400-1505* CC HS, //11290, (Davis)
 15600NF USSR Loc? 0100-0445 RR Majak HS II, mx, amts, nx, (Heutte)
 17533 CHINA RP *2300-2355* EE, (Davis)
 17690 BANGLADESH RB 1245 EE, lbx, nx, mx, F (Wootten-Morocco)
 17725 JAPAN NHK 0235 EE, nx, sports, nx review, E (Castello)
 17735 CHINA RP 0320 EE, cmntry, ID, G (Perdue)
 17765NF ISRAEL IBA *2000 EE, under ORTF, //15165, 11705, (Behr)
 17765 RUWANDA DW Kigali 1220-1231 EE, tlk abt OAU to Africa, (Tuchscherer)(Reeves)
 17770NF USSR RM *1930 w/"all African radio rally dedicated to African liberation/
 17776 USSR R Yerevan 0300-0320 Armenian, 0320-0330 EE, T,W,F,&Sat, F (Pyatt)
 17780NF MALAGASY REP RN 0800 DD, to Aust, formerly an Indon tx, (Padula-Australia)
 17795 AUSTRALIA RA 2335 EE, mx, splash from BBC, weak (Heutte)
 17800NF BELGIUM RTB 2145-2200 FF&DD to Africa, ex 17795 to avoid RA, (Padula-Aust)
 17805NF S AFRICA RSA 0800 EE to NZ, ex 17815, QRM de RFE, (Padula-Australia)
 17825 ALGERIA RTVA 0635 FF, pops, not //17790 in AA svc, (Padula-Australia)
 17825 NORWAY RN 2145 NN to Australia, (Padula-Australia)
 17850NF AUSTRIA ORF 0705 GG to SEA and Aust, ex 17865, (Padula-Australia)
 17860 BELGIUM RTB 2145-2200 FF/DD, mx to Africa, F (Zilmer)
 17865 USSR Vladivostok 2300-0230* CC px, (Davis); 0330 RM EE to WCNA, (Lineback)
 17870 ISRAEL IBA 1140-1202 EE to 1200 then FF, (Tuchscherer)
 17875 GERMANY (FR) DW 1200-1216 EE, mx, nx, African svc., (Tuchscherer)
 17880 USSR Loc? 1500 RR "Govorit R Stansia Rodena", G (Agner)
 17890 PAKISTAN RP 2050 Urdu, chants, tlk, ID, P (Eichenhorn)
 17890 TAIWAN VOFC 0300-0310 EE, tlk by W, some CC tlk, ID, F (Lineback)
 17937a PAKISTAN RP *0200-0300 Lang, EE ID, Lang to Indonesia, F (Zilmer)
 21490NF S AFRICA RSA 1005 EE to UK, Sunday only, ex 21535, (Padula-Australia)
 21500NF ENGLAND BBC 1215, Malay nx, ex 21530, QRM de RBI, (Padula-Australia)
 21540 GERMANY (FR) DW 0645 GG to Africa, (Padula-Australia)
 21540NF NETHERLANDS RN Lopik 1100 DD to SEA, ex 25620, (Padula-Australia)

21560NF ASCENSION IS BBC? local ID 1130 then WS, (Padula-Australia)
 21570 NETH ANT RN 1825-1930 EE, Happy Station, G (Nebron, Alexander)
 21570 NETHERLANDS RN Lopik 0930 AA, nx to ME, (Padula-Australia)
 21585NF USSR Siberia loc, 2130 CC, 2200 KK, mornings to Asia, (Padula-Australia)
 21600 GERMANY (FR) DW 1340 GG to S Asia, QRM de RBI, (Padula-Australia)
 21655 NORWAY RN 0610 to Africa, (Padula-Australia)
 21660 INDIA AIR 1005 EE GOS, E, QRM de BBC Cyprus, (Padula-Australia)
 21705 AUSTRIA ORF *0400 GG to SEA/Aust., (Padula-Australia)
 21730NF NORWAY RN 2220, to FE & SEA, ex 15345, (Padula-Australia)
 21740 AUSTRALIA RA 0230 EE, nx, sports, F (Castello)

Thanks and 73s to all those who supported Log Report this month.

Jerry A. Lineback

Thanks to this month's 39 reporters.....Here's the list:

AGNER, Mike, Waldwick, NJ Midland 11-500/Lafayette 17-1090L	HIGHAM, William, Youngstown, OH Magnavox 1R1214
ALEXANDER, Frank Charlotte, NC	KOLB, John, San Diego, CA
BAGLEY, Marlon and Bill Thomasville, GA DX 150B	LINEBACK, Jerry, St. Joseph, IL SPR4
BEHR, Ernie, Kenora, Ontario R4B	LOEHE, Ernst G., Alexandria, VA R4B
BREWER, Don, Manhattan, KS R4B	MACHEN, Dave, Oshkosh, WI GE P2950
BRUCE, Rob't F., Brechin, Scotland Eddystone 830/7	MAYER, Alan, Park Forest, IL SB 310/DX150B/MC 173/A20
BRUNNER, Chas. H. Jr., Salford, PA D7000Y	MEGYESY, Dave, Trenton, NJ
BERLEW, Doug, York, PA GR-64	MILLER, Albert A., Jr., Youngstown, OH HRO-500
CASTELLO, George, Los Angeles, CA Triumph 818	PADULA, Bob, Surrey Hills, Victoria, Australia Marconi CR100
CUSPADIO, Lary, Brooklyn, NY Lafayette G7000	PERDUE, Neal, Millington, TN SW4A/A20
CWIKLA, Tom, Wethersfield CT DX 150A	PETERS, Harold, Washington, PA SK190
D'ANGELO, Rich, Brooklyn, NY	PYATT, Edward J., Atlanta, GA Barlow Wadley XCR-30
DAVIS, Bill, Laguna Niguel, CA Homebrew	SCHNABEL, George, Rochester, NY SW4
DOLYAK, Evelyn, Griswold, IA A2865	SMITH, Albert, Wilsonville, AL BC342N
FINO, Henry E., Rochester, NY RCA Victor Console	TREIBEL, Wallace C., Seattle, WA HQ 180
FLEGLE, Larry V. Tampa, FL R388/URR	TUCHSCHERER, John, Neenah, WI HQ100A
GENDRON, John C., Arlington, VA SK 190	VORAN, Max G., Newton, KN SX 190
HEUTE, Fred, Jr., Washington, DC R-390/URR	WALLACE, Steve, Lewiston, PA DX150A
	WOOTTE, Chas. A., USN, Morocco Zenith Transoceanic
	YAMRON, Larry, Pittsburgh, PA HQ180
	ZILMER, Robert, Milwaukee, WI SPR4

Also acknowledged are late reports from Hans J. Rakow, Sherwood Park, Alberta; Larry Nebron, Daly City, CA; and Sandy Eichenhorn, Troy, MI. Their reports have been sent on to the Editors, and it will be up to determine if they can be used....Suggest that reports be mailed on the 8th or 9th to assure they will be here on the 14th. (MRL)

o o o

SPECIAL PUBLICATIONS AVAILABLE FROM HEADQUARTERS...

"NIBLACK REPRINT BOOKLET" (articles on receivers, antennas, etc.) \$1.00...AFTER THE SUN GIBES GOWN, by Ed Shaw (Sunrise/sunset tables & how to use in DXing) 50¢... The NASWA CLOTH JACKET PATCH, 3-3/4 inch diameter, \$2.50...NASWA RUBBER STAMP, \$2.00... QSL VERIFICATION SIGNATURES (1972 edition, while they last) reduced to 50¢...THE ART OF VERIFICATION, by Gregg Calkin, 50¢...90 meter survey (1972 edition, reduced to only \$1.00...."BROADCASTING IN PERU" by Richard Wood, 25¢....All items postpaid in NA...Order from NASWA HDQ, Box 8452, S. Charleston, WV 25303.

FLASHSHEET

The FLASHSHEET is published twice monthly by NASWA, Box 8452, S.Charleston,

JULY 1973

Freq: KCS

Time: GMT

AL NIBLACK, Editor, 420 Shelby St., Vincennes, Ind. 47591 DEADLINES: 15 & 26th Month

MAY 1973 SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 5-7-73: 1-24 2-46

3-64 4-77 5-92 6-68 7-82 8-52 9-30 10-25 11-26 12-18 13-7 14-7 15-25

16-33 17-34 18-41 19-42 20-32 21-52 22-53 23-47 24-57 25-64 26-46 27-51

28-32 29-32 30-21 31-17 MEAN—41.5

PREDICTIONS: JUN-40 JUL-38 AUG-36 SEP-34 OCT-32 NOV-30 (Grady Ferguson, S.C.)

(With the Sunspot Count going steadily downward, I can hardly wait for the approach

of the fall low band DX season; MALDIVES and FALKLAND IS., you are targets, Editor)

SF HELENA (Repeated from Mid-Month FS) Latest sked from ITU, 6100, and 11830, 2000-

2200, with 400 watts. Also sked "up to 3 times a week" at 0945-1145 and 1530-1830,

on both fqys, as well as 1900-2000 on 11830. (Gerry Dexter, Wisc., via NU/Don Jensen)

AFGHANISTAN Radio Afghanistan with EE commentary followed by local music, 15265,

from 1810-1827, fair lvl, some QRM, first logging in several months (Ed Insinger, N.J.)

ALGERIA 17790 R. Algeria, 2030, native music, all talking in AA, at vy good lvl. (JoeANGOLA Radio Commercial de Angola is on this fgy, 4794, heard 2200-2258, (Helm, Ind.)

S/off varying. PP pops, talks, IDs, IS, "AF" at closing. Gaud! (Scott Reeves, Md.)

...7245 A Voz de Angola excellent lvl 2330, with light music. (Fred Heutte, D.C.)

(I think this, more correctly, is Emissora Oficial, Editor)

BANGLADESH 15520//11650 RED at 1400 in language, EE on both fqys at 1700-1800, fair

sig, though best on 11650. (August Balbi, Cal.)

BOLIVIA 5055 R. San Rafael, vy rare, was heard with talks and some music, over. R.

Vitoria (Brazil), around 0115...4938 R. Norte was poor lvl at 0130-0215 with all SS,

no music. (Credit both to Fred Heutte)

BRAZIL 4825 R. Educadora de Paranaiba was fair lvl 2330 over LV de las Fuerzas Ar-

madas, with news and music in PP. (Fred Heutte)...R. Clube Paranaense, 11935, at

0500 with native music, all talks in PP, an ID. (Joe Helm)...15135 R. Soc. da Bahia,

2130-2215, PP sports and ID, heard 6/10 only, good lvl; not on listed 15125. (Ernie

Behr, Canada)...15135 R. Panamericana, 6/17, from 2000 with sports in PP. (Marlin

Field, Mich.)...15335 R. Farrroupilha from 2303 with musical prgm, weak lvl. (Marlin,

CANARY IS R. Nac de Espana, 15365, 2037, vy nice SS music, man amcr, an / Field)

ID at 2045. (Joe Helm)

CAMEROON R. Buea heard this evening on 3970, with news in English at 2156-2200; S/off

was at 2202 with, "All of us at R. Cameroon, Buea, wishing you goodnight". This must

be a change in prgming as WRETV has them S/off at 2100. (Robert Bruce, Scotland)

CHILE 9511 R. Corporation, 0015 LA music, 0030 SS ID, QRM de BBC. (Ernie Behr)COLOMBIA Ecos de Puerto Martinez; 5568, in SS, music, QM and YL talk, 0106-0200.

Currently weak lvl, QRM, makes tough copy. USB effective. (So is an SX-100, if you

have one!!) (Ed Insinger)

DENMARK 15165 RD at 1300 announced in EE and stated that they were beamed to Green-

land, then followed in Danish only, with news. (Joe Helm)

DOMINICAN REP 4910 Radio HIN at 0655 with music, one amct in EE, asking for reports,

good lvl. (Marlin Field)

DIEGO GARCIA (FLASH) New country it seems, but UTEs it appears, per article in NY

Times, 6/18. US Navy has opened up a Naval Radio communications station here in the

Indian Ocean on this British Is. Sure looks tempting for a VOA Relay site to replace

Sri Lanka! (Larry Magne, Pa.) (Fgy unknown, Editor)

GUATEMALA R. Maya, 2360, noted with readable signal 0130-0200, light music, and all

Spanish. (Fred Heutte)

GERMANY(W) 9605 Since May 5th, DW's West Coast Svc to US has been relayed by R. Can-

ada, good lvl. (George Castello, Cal.)

GUINEA(R) (FLASH) 4910 The PAIGG prgm over Conakry Radio, heard at 2300 S/on, June

20th, in PP. The IS is the same as the 6240 outlet. This prgm ended at 2335, then

went back to normal Conakry prgming. The PAIGG prgm caught me by surprise. (Robert

Bruce) (Vy good, this is nearly positive evidence that the Clandestine heard on

6240, is originating or broadcasting from Conakry; Bob was good enough to send a tape,

I will be glad to forward it to any one interested, for an SASE, Editor)...15310

(TENT) Conakry with native music, talk, news, 0705-0823, FF language. (Continued)

PLEASE TURN OVER

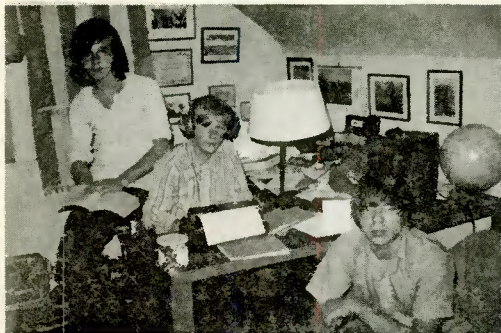
GUINEA(R) (Continued) (Neal Perdue, Tenn.)...Conakry, 15310, 1345, native music and singing, followed by possibly news, rather poor lvl. (Joe Helm)
ECUADOR 4911 Em Gran Colombia is again active, noted 0400, rapid SS. (Fred Heutte)
HUNGARY 11910 R. Budapest, 0305, in FF and GG, on seasonal fgy. (George Castello)
INDONESIA VOI, Djakarta, 11715, strong lvl with EE 0900-0930, on checks. (August Balbi)
ISRAEL Just had a long talk with IBA Engineer in Jerusalem, these fgy's are the likely new ones for IBA to NA, effective shortly: 0500-0530 on 9009, 11860, 11960; 1130-1230 on 15135, 15195/15205, 17775. No IS will be used. The IBA is considering setting aside one transmitter for the 2000-2045 EE mission now to Europe, to be beamed to Eastern NA. This would make a total of 3 transmissions per day to this continent. (Larry Magne) ...On 15165, IBA, 6/17, from 2000 in EE, to S/off at 2040. (Marlin Field)
IRAN Beautiful QSL, letter, and tourist brochures, for March report. Lists fgy as 9022, for 2000-2030 EE. QSL QTH: National Iranian Radio Television, Foreign Programmes, P. O. Box 33-200, Tadjrish Pahlavi Road, JAME Avenue, Teheran. (Ed Insinger)...15084 Teheran strong lvl 1600-2130, in language. (August Balbi)...15085 Teheran at 0430, in language, followed by native music. (Joe Helm)
IRAQ Baghdad is on 11783 at 1830, with // of 17770, and 7180, past 2115. (Scott Reeves)
KOREA (N) Pyongyang, 15150, EE 0800-0850, also in SS and language 2300-0100. (August Balbi)
KOREA (S) Formerly VOFK, is now R. Korea, EE 0330, FF 0300. (August Balbi (15335)/Balbi)
LIBERIA 11950 ELWA with new religious prgm in EE, 0630-0700, with ID as, "Gospel Radio System." On other days, at 0700, ID as, "ELWA" to S. and W. Africa. (August Balbi)
LUXEMBOURG 15350 RL logged from 2119-2200 with EE and GG pops, ID and QTH. Never heard on this fgy before. (Steve Wallace, Pa.)...RLI, 15350, with positive IDs, SINPO 44444, including news, ads, WRP, 0520-0620. Must be more than 6kW listed. (Richard Schwartz, Del.) (As I recall, RL used 15350, years ago, with 1kW; recently they have reactivated the fgy, possibly using the old 50kW from 6090, which was replaced by 250kW, Editor)
MEXICO 6105 Merida heard using the slogan, "Su Pantera" before 2200, but full ID at 2202, all SS. (Glenn Hauser, Tex.)...9600 R. Universidad, 2350 LA songs, 0015 SS ID. (Ernie Behr)...9600 This one fair at 1600-1700 with classical music. (Fred Heutte)...9600 Also noted at 1300 after 30 minutes of classical music, SS. (Scott Reeves)
NEW CALEDONIA 7170 Noumea just faded in at 0500, a woman talking in FF. (Fred Heutte)
NEW ZEALAND 17770 RNZ at 0305, in EE, but not at good listening lvl. (Joe Helm)
NIGERIA VON, Lagos, S/on 0545 with chimes, EE news 0600 and 0700, on 15185//7255; both fair, also on 11895, 11920 (testing). (August Balbi)...VON on 15183V from 0640-0735 S/off, in EE. (Neal Perdue)...VON in EE on 11898V, weaker 15183V. (Scott Reeves)
PAKISTAN RP noted on new 11935 in GOS to Europe, to 2115. (Scott Reeves)...RP, 11672, 1959-2028, EE Svc in part, some native music, 35333. (Ed Insinger)
PERU 4856.5 (TENT) R. Chinchacocha, Junin, 0430 Andean music, SS ID to 0602 S/off, good lvl, noted since mid-May. (Ernie Behr)
PHILIPPINES VOP, 9580, is now also using the Tagalog slogan "Filipinas" during its EE prgm, noted 1215. (Glenn Hauser)...9577 VOP has EE for NA at 1600-1900. (Fred Heutte)
POLAND Polish Radio Warsaw, EE on 11815, at 0320, good lvl. Interesting to note their QSL policy of 7 ods in "Map Series"; 3 in "Monuments Series". And, 1 called, "Heraldic Arms of Polish Towns". (Ed Insinger)
PORTUGAL QSL from RFE, Lisbon, received in one week, total lapsed time! (Ed Insinger)
REUNION (TENT) 2446 St. Denis, ORTF, on 6/7, from 0240-0255. Man and woman in FF talk, music audible but weak, bad QRN. (Ed Insinger) (Vy probably St. Denis, Editor)
SO AFRICA SABC noted on new 3320, 0500, in Afrikaans/English, usual format. (Scott Reeves)
TAIWAN (TENT) 11905 BCC, 1420 Mongol type language to 1550A S/off, CC IDs. (Ernie Behr)
USA WWV and WWVH will change announcement format from GMT to Correlated Universal Time (CUT) on Jan. 1, 1974. (Ed Insinger) (Will basically be the same, Editor)
USSR 11828 Majak prgm now being heard 1800 with IS, ID, all western classical music, must be Asian transmitter as has much polar flutter. Do not confuse with V of Malayan Rev. (Fred Heutte)...Mrs. S in QSLing for their South-East Asia Svc, 15450, marked the transmitter site as via Serpukhov. (Al Niblack, Ind.)
VENEZUELA 4960 R. Sucre from 0300 with music and news, S/off at 0400, SS. (Marlin Field)
CLANDESTINE: R. Free Russia heard vy well in RR, 1920-1956*, on 11400. (Ed Insinger) ...9499 Bizim Radio fair at 0615 with talk by man. (Fred Heutte)
ERRATUM (See last FS) Note to Joe Helm: 11940 is Moscow, not Singapore. Fred Heutte ...7345 (See last FS) Note to Neal Perdue: 7345 This one is Prague in SS. (Richard Schwartz; Neal Perdue informs that this one is indeed Prague, just slipped up on him.)
ACKNOWLEDGEMENT: THANKS to many for such robust support. Please keep coming back. Until next time we meet, Happy Hunting, Vy 73,

FRENDX FOTOS



EDITOR

Edward C. Shaw
621 Burleigh Avenue
Norfolk, Virginia 23505

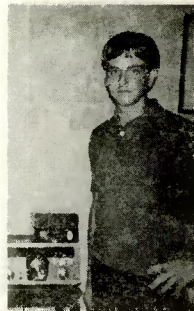


This group seems to be the beginning of another branch club, this time from upper State N.Y. at the home of George Schnabel. (see March FRENIX Foto Page) In this photo we see (l. to r.) Frank Orcutt, Charlie Hahn, and Mike Collier. We will be looking forward to seeing Henry Fino's picture here one day, also as he is also an area resident and DX hound. It would have been very nice to have a little biography for each of these guys, but it's enough to say that they're DXers.



Stewart MacKenzie, Executive Editor for American Short Wave Listener's Club, 16182 Ballard Lane, Huntington Beach, Cal. 92647. This photo was taken several years ago when Bruce Churchill and I visited Stewart's office and DX shack. We understand Stew has since update his equipment and no longer uses the military surplus gear he once had. Stewart has, like many editors in many other clubs through the years, endured and survived both good and bad times - and ASWLC continues to serve a loyal membership after 14 years.

Chuck Rippel, 1316 Alanton Drive, Virginia Beach, Va., 23454 really likes to dig out the DX! He uses an SX-190 and DX-150A. A member of NASWA and CIDX, Chuck also frequents meetings with other DXers in the area. He also monitors PSB because of his association with a local emergency rescue team. Chuck's dad is also active in local TV (of sorts). At one time, this editor has seen as many as five antennas, either active or non-active, at Chuck's home.

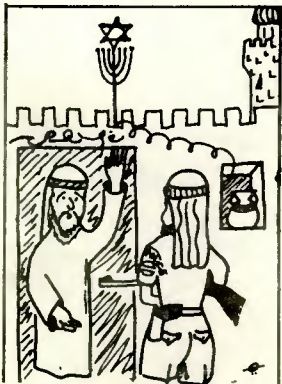


Wanted: photographs for this page. Any B&W or color which isn't too reddish is fine. Keep them coming? Need in time for August FRENIX. Suggestions? Drop me a line.

73, Ed
Ed Shaw



Larry Flegle, 1004 E. Powhatan Av., Tampa, Florida 33604, tells me he is now the hottest DXer in Florida since he picked up his new R-388 (for a fantastic low price!) Larry can be heard on WQYK, and also on CB. The ole boy was good enough to whip an honorary membership in the Gator-Jaw QSL Club on me just recently. 73, Larry. Let's have some big reports into Log Report!!



"So help me, Allah, it's just a new design short wave aerial!"

73 from

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