

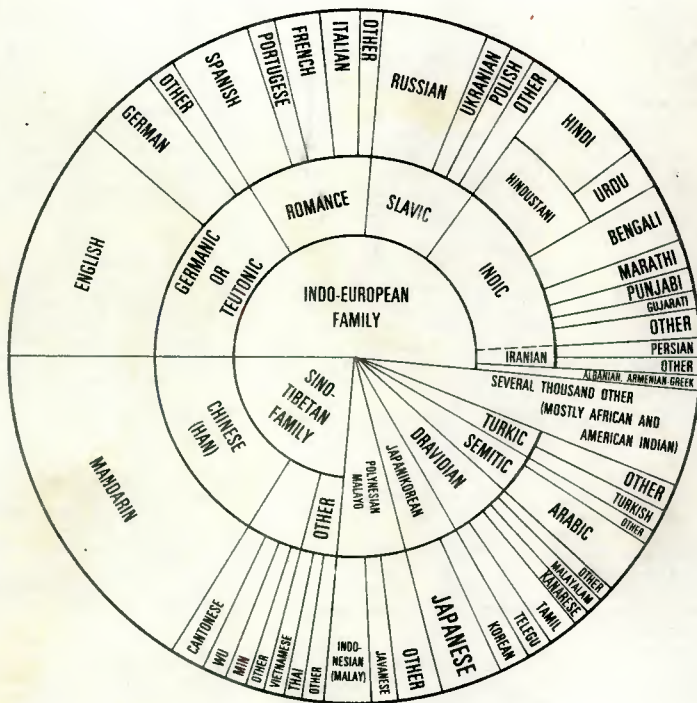
F R E N D S

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PRINCIPAL LANGUAGES OF THE WORLD

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DRAKE R-4B—How To Make A First-Rate Receiver Better

By LARRY MAGNE



There are a number of misunderstandings concerning the classic Drake R-4 B receiver that scare people away from purchasing it-- or once they have purchased it-- from fully exploiting its potential.

The R-4B, which has recently been superseded by the less-flexible R-4C, is a top-notch SWBC DX receiver capable of performance equal to that of receivers costing hundreds of dollars more. Even though new R-3Bs are now pretty well sold out, used ones abound-- especially in ham radio circles-- and are usually priced between \$275-375. However, the receiver was designed by Drake mainly for ham and utility purposes, so it behooves SWBC DXers to fill in the gaps left by Drake's engineers and manual writers.

WHAT BANDS DOES IT COVER?

The R-4B, when properly aligned and functioning, operates very well from 3-16 mHz (save for the famous IF "hole" between 5-6 mHz). Additionally, it operates well, but with slightly reduced sensitivity, from 1.5-3.0 and 16-30 mHz. In practice, the receiver operates in the IF "hole" fairly well from about 5.0-5.5 and 5.8-6.0 mHz, with only the 5.5-5.8 mHz range being poor-to-useless.

The reduced sensitivity below 3 mHz and above 16 mHz makes the new Gilfer/Hamgear preselector-- at least those samples capable of operating as low as 2.2 mHz (specs indicate a lower limit of 2.8 mHz but we are informed some samples go lower)-- an obvious mate for the R-4B. And a preselector helps reduce IF "hole" and "birdie" pip problems. (It is also worth noting that the powerful "birdie" pip on 4978 kHz appears only with the 4.5 mHz xtal, not with the 5.0 mHz xtal.)

IMPROVING THE R-4B DISTORTED AUDIO

The R-4B, as it comes from the factory, suffers from distorted audio when the receiver is used in the AM mode, as the AM detector--unlike the SSB product detector-- is of the simple half-wave variety. As the IF bandwidth is narrowed from the "wide" 4.8 kHz position to either the 2.4 kHz or 1.2 kHz position, this distortion-- a nuisance to begin with-- becomes a serious handicap. Additionally, the audio is weak and has no "punch", which--when combined with the distortion-- makes readability of many DX signals difficult.

The result is not only an annoyance, but is also an actual loss of useable sensitivity as compared with similar receivers using full-wave AM detection.

Thanks to the research of Steve Bohac and Elementary Electronics (May-June 1973, pg.69), this can be largely cured for one dollar and about an hour's time. The solution has been field-tested here for four months and has been found to work well.

The tools needed are a screwdriver to remove the bottom cover; a pair of small needle-nosed pliers to maneuver parts and crimp leads; a wire cutter (scissors will do) to cut leads; a low-wattage soldering iron (a high-wattage iron or gun will damage the circuit-board foil); and a small length of rosin-core solder.

The parts needed are:

- 1) one 1N270 diode from Drake's Parts Department (55¢ plus postage); 1N270s from Drake are matched, which is important for proper results.
- 2) one .02 uf ceramic capacitor, obtained locally or through Drake for 10-25¢.

When you have the parts, remove the bottom of the R-4B cabinet. Locate the circuit board labeled "BFO", which can be found roughly in the middle towards the front of the set 3" away from the headphone jack and just to the side of transformer T11 (T11 is pictured on Pg.37 of your instruction manual from Drake).

Locate capacitor C160, which is the first .005 uf capacitor from the end of the circuit board pointing to the front of the set. Warm up your soldering iron and remove C160 by heating both leads.

Take your new .02 ceramic capacitor and cut either lead to 1/4" and the other lead to 3/4".

PLEASE TURN TO NEXT PAGE

Modifying The R-4B

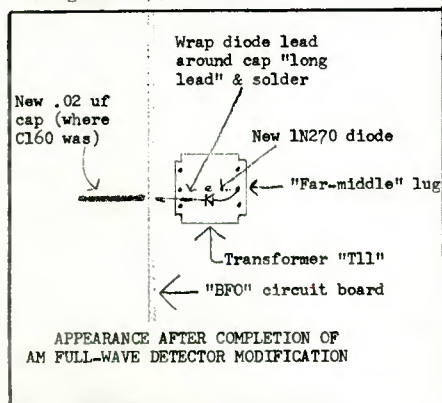
(CONT.)

Making sure your hands have been freshly scrubbed clean of any grease or dirt, take a small knife or similar device and scrape the leads clean until they are silvery and shiny.

Insert the .02 uf capacitor, with the "long lead" nearer you*, into the same holes C160 was in before you removed it. If the holes are blocked by excess solder, heat that solder while gently pushing through the leads. With the capacitor bottom now resting against the circuit board (as all the other ceramic capacitors do), solder both leads by resting your soldering iron against the lead and circuit board foil for several seconds and then applying a modest amount of rosin-core solder to the tip of the iron and the lead simultaneously. After 3 seconds or so, remove your iron and let the solder cool naturally.

Find your new 1N270 diode; note the location of the red stripe.

Locate transformer T11 (see Pg. 37 of the manual); locate the middle lug of T11 in the group of 3 lugs farthest from the BFO circuit board (see the drawing below).



With the red-striped end of the diode towards the circuit board and the other end towards the aforementioned middle lug of T11, bend and cut the 1N270 leads so the diode will run from the .02 uf capacitor "long lead" now sticking out from the bottom of the circuit board to the T11 far-middle lug. Be sure to leave enough lead to wrap around the lug and capacitor "long lead."

Clean the diode leads with a knife. Wrap the diode leads around the "long lead" and the T11 lug, being sure the red stripe faces the "long lead" and the circuit board. If this done backwards, your polarity will be reversed!

Solder both diode connections, using the soldering techniques outlined earlier.

That's it. Realignment is not really necessary, although it may improve performance above 16 mHz in some cases. You will now find distortion reduced, audio strength increased and intelligibility improved.

R-4B MAINTENANCE TIPS

Every year or two, depending on how much you listen to your set, it is worthwhile to replace all your tubes at once...or at least those critical to the DX function.

There are only 9 tubes in all, 6 of which are important in the reception of signals: 6BZ6 (RF), 6HS6 (1st mixer), 6HS6 (pre-mixer), 12BE6 (2nd mixer and xtal oscillator), 12BA6 (1st IF) and another 12BA6 (2nd IF). Except for the IF amps (a pair of 12BA6s--V4 & V5), you will find a slight improvement in the signal-to-noise ratio and stability if the replacements are either Amperex (i.e., Philips of North America), Telefunken or Mullard. Unfortunately, it seems only Amperex, of the three, makes 6HS6s; but if you can't obtain these, Sylvania's will suffice. For the IF amps, Sylvania's have been found best-suited for both performance and S-meter alignment.

Should you make much use of your noise blander, you will eventually notice a 60 Hz hum while using it during certain fade conditions. The cure is to replace the 12AX7A noise blander tube with one produced by any of the 3 aforementioned European manufacturers.

Realignment after tube replacement is not really necessary, but sometimes helps, especially if your set has never been previously realigned. If you choose to do this, age the new tubes for at least 72 hours before aligning. Drake will realign your set for \$10 plus shipping (or you can do it yourself.)

While you have the set apart, clean out the dust with a soft brush. Remove the VFO cover "can" and check to see that the 4 screws holding the VFO to the chassis are secure (these tend to work loose over time and cause instability). Using a reputable brand of contact spray (not TV tuner spray, which is different) that won't damage plastic (read the label to see), spray a light film onto all wafer-switch contacts and inside each potentiometer. Many of these spray points are inside the bottom of the set.

Every now and then it's also a good idea to clean off the old grease ...

* To double-check, the "short lead" (1/4") should be in the hole which has a lug on it, to which a white wire is connected.

PLEASE TURN TO PAGE 8 FOR CONCLUSION

My Adventures With Unofficial Radio By JOHN CAMPBELL



"A Quick Sprint on a Bicycle" brought first QSL.

8-year old sister was the result. Since then, I have been a strong fan of Unofficial Radio.

There are hobby pirates like 5XYZ, but then there are political operations. In 1955 a 75-watt station on 7850 kHz provided do-it-yourself entertainment for the Australian Army at Puckapunyal training camp, about 70 miles north of Melbourne. Apparently it ran with government approval but was closed down shortly after it became political through broadcasting a revue produced by military service trainees. As this was in the days when politicians were assumed to possess all known virtues, I suppose that one song about a famous incident of earlier times involving the Speaker of the House of Representatives in Victoria, the parliamentary mace, and the most luxurious of a chain of brothels under the protection of a police chief who was not unconnected with the Army, probably caused slight offense in some quarters. For this reception my log book makes interesting reading. The only QSL letter which I have is unfortunately not for this broadcast but the lack of an answer to my report of the revue may be explained if all the people capable of verifying it were under close guard in the stockade at the time.

Work submerged my SWling after 1956 but I took it up again in Texas last year as a distraction from the hostile Indians there. (Another way of stating what must regrettably be a private joke is that we had the traditional trouble of too many chiefs and not enough Indians, complicated by the fact that even our chiefs were Indians).

With this background, it is perhaps not surprising that my first meeting with Unofficial Radio last year was in Ireland. Most Irish clandestines stick to MW, but I was able to give some encouragement to Gnomes of Ulster, an anarchist station on both MW and 49 meters. Although I was unable to be present at the first broadcast in Belfast, because of an engagement in Derry, I had the consolation of being able to send the Gnomes a report. Since that time they have distinguished themselves by retransmitting British Army communications during raids, with added commentaries in the style of football broadcasts.

For this and other reasons, they have picked up some influential enemies and lost one transmitter, so they are now adopting a low profile. In Ulster all the political pirates are irregular but the tourist with a portable receiver can usually find something interesting at nights on the BBC Radio 4 frequency after the BBC closes down. Almost everywhere in the U.K. these frequencies attract low-power local hobby pirates like a light attracts moths. In Belfast the traffic is heavy and toes are occasionally stepped on, e.g. "Will you Orange bastards get off me frequency? I was here first."

The European open season for SW hobby pirates starts each Sunday at 0900 and closes around 1500, in a range between 6210 and 6325 kHz. Some of the stations with 100 to 150 watts (R.Gemini, 6235; World Music R., 6250; R. England International, 6260) may make it to the U.S.A. in winter for a few minutes--just long enough for a QSL but short enough to hide the low quality of the programs. I have heard about 25 of these stations in 9 months but only the 3 Scottish stations and their theme music of bagpipes are of any special listening value. Bagpipes are of course political and not just a hobby; Oxford University students have been forbidden since 1580 to play the bagpipes within 3 miles of the center of town without formal permission in order to avoid 16th-Century type racial riots.

In South America the attitude towards unlicensed stations is rather casual outside the major cities. In the bush nobody cares what goes on and pirate broadcasting.....(Cont.)

PLEASE TURN TO PAGE 6

How Can I Identify The Rare DX Stations?

This is the Fourth in a Series of articles on DXing at the serious level. The articles proceed from some basic questions and the approach is part essay, part "how-to-do-it". They assume some knowledge of DXing and cover advanced techniques not found in the usual beginner's manuals.

ON TO THE TOP: (4)



By DON JENSEN

OK, you've followed the various tips suggested earlier in this series. You've tuned a signal that may..or may not..be a real DX station. Now you've got to identify it.

This is where the going really gets tough. It's the test that separates the men from the boys, the place where DXing experience really counts.

The first case to consider, strange as it may seem, is just what constitutes an identification?

Identifying a station should be an easy thing, theoretically. Either yes or no, go or no-go! Practically, though, station identification comes in varying degrees of certainty. Although this certainty spectrum is a continuum from total certainty about a station's identity to complete uncertainty, let's divide it into four broad brackets.

POSITIVE IDENTIFICATION-- You're 100 per cent sure of the station's identity because you heard the ID announced. There

are other ways to positively identify a station, of course. For instance, if you hear "Moscow Mailbag" you don't need an ID to know you're tuned to Radio Moscow. Now all this is a snap when you're dealing with strong signal stations broadcasting in English. But our topic is rare DX and identification of these outlets is harder because they're usually weaker, plagued with QRM and broadcast in languages other than English.

TENTATIVE (or Probable) Identification-- No definite ID is heard, or if heard, not fully understood. But various clues in the programming, etc. lead you to believe strongly that you are hearing Station "X".

POSSIBLE IDENTIFICATION-- Again, no station identification heard but some factors lead you to suspect you've logged Station "X". However, those factors might also apply to other stations. In short, your degree of certainty as to identity is rather low.

UNIDENTIFIED-- Here you either have no idea, from announcements or program details, as to the identity, or you have a very low degree of certainty as to which of several--or many-- possible stations you may be hearing.

Broadly speaking, a reception report is always justified when a station is positively ID'd. A report is never justified with an unidentified station. In the mid-ranges of ID certainty, even experienced DXers differ as to when a reception report should be sent to a station. The following represents the author's viewpoint.

If you strongly believe, based on a number of factors I'll discuss in a later article, that you've heard a certain station, coupled with some pretty convincing program details, a report may be sent to the station on the strength of tentative identification. But that report should spell out that you didn't positively ID it. It should mention the reasons why you believe it to have been the station reported. And you should ask that it be verified only if the station authority is convinced it is correct.

Rarely should you report a station on the strength of a possible identification. A report seeking a verification is justified only when you've noted some especially unique factor that could apply only to the station in question. Example: You think your station possibly could be Station "X" and during the course of your logging, a transmitter problem knocks the station off the air at 1413 GMT. It is very likely that the station could determine the accuracy of your report on the strength of this detail.

The sensible rule of thumb to follow in most cases is report those stations which you know or strongly believe you logged. The burden should be on you, the DXer. When in doubt, don't rely on the station's QSL to resolve those doubts.

NEXT: "he factors involved in identification.

GR-54 Conversion

--We have an excellent article on hand by NASWA member Danny Richardson on changing the GR-54 to Dual Conversion. This rx is no longer in the Heathkit catalogue and there are probably not enough NASWA members with GR-54s to warrant publishing the article in FRENDX. HOWEVER, if you want a copy of the article, write the NASWA headquarters and a copy will be sent to you if you enclose a long SASE.

An All-Around Great DX Catch



EDITOR'S NOTE: DXers Ed Insinger and Hank Michalenka, working independently, came up with the information for this fine feature.

By EDWARD J. INSINGER

The Galápagos Islands are situated 600 miles west of Ecuador in the Pacific Ocean. They are a territory owned and maintained by Ecuador, having a population of 3,000. The islands are scattered over 23,000 square miles at the equator—yet their total area is only 3,000 square miles. There are more than 60 islands in all and most are largely desolate.

The islands' human inhabitants, half Ecuadorian, speak Spanish; English is known and understood to some extent. Their lifestyles are simple, basic and primitive. They are poor monetarily, but rich in heritage. Their clothing is casual and informal, due to a combination of limited income and the weather at the equator. Most either work for the Ecuadorian government or are fishermen. They are Ecuadorian citizens.

As far as most DXers are concerned, the Galápagos Islands might be considered nothing more than Prehistoric Islands out of the grasp of even the far reaching shortwave receiver. This was caused by the fact that La Voz de Galápagos transmitted in the 49 meter band and was a difficult catch. However, last December they suddenly appeared in the 90 mb (actually 86) on 3520 KHz, to the delight of DXers! By early 1973 they were being well heard (most often from 0300 to 0400 GMT).

The Galápagos Islands (the word Galápagos is Spanish for the large, land tortoise found here) are truly more than a great DX catch. The history, geography and animal life are unique. When a DXer hears and perhaps receives a verification from the Galápagos Islands he becomes a part of this unparalleled uniqueness. Consider this: how many other places have you heard or QSL'd that:

Have as natural tame wildlife lizards, iguanas, scarlet crabs, albatross, finch, seals and tortoises in 15 species that are known to be 150 to 200 years old;

Have a terrain so rough it is best described as "moonscape";

Have unpolluted islands rigidly controlled by Ecuador, to the point where tourists must carry a plastic disposal bag over their shoulders;

Has no fresh water supply on the islands (must be imported; residents catch rain water in barrels);

Has one doctor for all its islands;

Has no tourist hotels (boats they came in must serve as visitors' hotels);

Has a Darwin Research Center actively involved in uncovering the relationship between man and animal. (Charles Darwin visited the islands in 1835. His studies of wildlife on these islands provided most of the data for his famous Theory of Evolution).

Your reception report to the Galápagos Islands first arrives in Quito, Ecuador. From here it is sent by ship to the islands—the first island it reaches is too small to land on! It arrives at Puerto Baquerizo Moreno on the island of San Cristobal where the shortwave facility is located. Program announcer Father Jorge Narváez reads and answers mail. He responds to inquiries in English, sometimes sending a personal note on the station's official stationery. A station pennant (see next page) is also sometimes sent to listeners, along with an attractive, complete QSL card.

Check Flashsheet or Log Report for current listings of La Voz de Galápagos and by all means give it a listen!

The address for reception reports is:

Radiodifusora "La Voz de Galápagos"

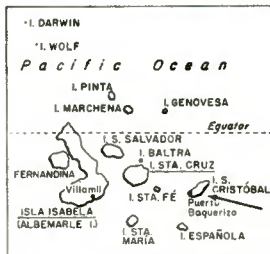
Mision Franciscana

Puerto Baquerizo Moreno

San Cristóbal

Galápagos Islands (Ecuador).

(EDITOR'S NOTE: Thanks, Ed, and shed a tear for your SWC editor whose troop ship stopped at the Galápagos Islands for refueling in World WAR II but with no personnel allowed to leave the ship! You can't win 'em all.)



ARROW POINTS TO SAN CRISTOBAL, SITE OF RADIO STATION.

LA VOZ DE GALAPAGOS (Cont.)

Article obtained by NASWA Publicity Director Hank Michalenka directly from Padre Jorge Narvaez of La Voz de Galapagos.

By PADRE JORGE NARVAEZ

Our station operates from San Cristobal Island, capital of the Province of Galapagos, which was freshly created by the Central Government, i.e., the President of Ecuador, General Guillermo Rodriguez Lara.

It was the dream of Monsignor Juan de Dios Campuzano, Apostolic Prefect of Galapagos, but was converted in reality by Monsignor Hugolino Cerasuolo. Our motto is "God, Fatherland and Culture"; we serve as a link of union among the islands of the Archipelago, especially the permanently-populated islands of San Cristobal, Santa Cruz, Floreana and Isabela.

Incidentally, I am typing this at the school "Cornelio Izquierdo" on Isabela Island. The island was named for the Queen of Spain, Isabela la Catolica. It has marvelous landscapes, flamingoes, and even penguins at the port.

"La Voz de Galapagos" was inaugurated on the same date the American astronauts Armstrong, Aldrin and Collins went to the moon; that is, July 20, 1969. Our programs are cultural and religious. The Franciscan fathers Mareclo Uria, Angelico Sisalema and Edgar Pinto are working here with the Sisters Mariela Montoya, Eufemia Meza and Teresa Jacome; also we have yours truly, Padre Jorge Narvaez, Brother Carlos Andres (with the programs of Cooperativism) and over all, Msgr. Hugolino Cerasuolo.

We ask the help of our good friends and listeners to make better programs for our dear radio, "The Voice of Galapagos", with the turtle Speaking.

P.S. I am 34 years old and a teacher (geography/history) at the college "Alexander von Humboldt". I also serve as an announcer for our radio station.

Unofficial Radio

By JOHN CAMPBELL

(Continued)

...is a means of passing the time if a transmitter is available, even if it belongs to the government during working hours for PTP traffic. As very few people expect to have listeners, IDs are rare and announcements of addresses are even rarer. Porkknockers' BC Service in Guyana is the only station that has sent me a QSL after my last tour in that area, but this is not remarkable because it was also the only one I tried to report which took the trouble to air songs by live artists. Brunk, maybe, but still live. When I heard them in Surinam, one of my friends said: "We behave properly and do not do such things here"; bad news for country-hunters who wish to add Surinam to their collection.

The nearest thing to SWBC in Surinam is the harmonic of Radhika on or near the 120 meter band, but its exact position depends on the state of the MW transmitter. This is not so strange; the company's funds may have been exhausted by the purchase of its mast, because the interior and exterior of the station at ground level, complete with friendly pigs, have the appearance of a recent camp of the cavalry of Genghis Khan.

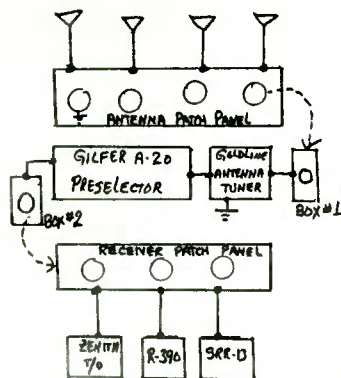
For the record on Surinam, the description of R. Nickerie in the 1973 WRTS is factual, while the story about 3240 kHz in previous editions is what the licensing authorities in Paramaribo may even continue to believe today. As I said, radio in South America is a casual business.

What concrete results can political pirates achieve? Let me end with a word about Radio na Gaeltachta, whose memory I have just toasted at a party in Dublin. The first recorded promise of an Irish Cabinet Minister to give the Gaeltacht (or Gaelic-speaking area of Ireland) a radio network for its own language was in 1927. Since that time, there have been numerous committees, study groups, investigations and so on, a family of political chickens making egg-laying noises while not producing a single egg. Relatively recently Radio na Gaeltachta appeared: "If the government won't do it, we'll do it ourselves." (After all, "Sinn Fein" means "Ourselves Alone"). Following some exposure to this Gaelic pirate, the government gave in and started a network with the same name at last, at Easter 1972. Alas, I was too late on the scene to hear the pirate, but I have passed the information on to some friends in the Welsh language Society. Will they see the moral? For further developments, watch these pages.



Antenna Switching Again

By CHARLES A. WOOTEN



a similar system. Several months ago I built a cabinet to house my three receivers, a surplus SRR-13 and R-390 plus a Zenith Transoceanic, a tape recorder, a workshelf and a file cabinet.

This did not leave me much room to work in: namely about 2 square feet. So after figuring out where I wanted my antenna system to remain permanently an 11" x 6" box was built and installed and enough holes drilled to permit entry of 4-antenna lead-in wires, a groundwire and output wires to the receivers. In block diagram form it looks something like above sketch.

The antennas, two 100-foot longwires, one 50-foot longwire and one 18-foot vertical, are fed directly into the antenna patch panel and hooked (soldered) to one side of the jack plug. The shielded mesh part of the coax cable is soldered to the ground side of the jack plug. (Note that the vertical antenna is the only one with its own ground). Then the same thing is done on the receiver patch panel and Boxes #1 and #2. Mainframe ground is at the tuner.

Assembly is done exactly as shown in the block diagram. The antenna tuner and preselector are permanently wired to each other and Boxes 1 and 2. It was done in this fashion because the preselector, unfortunately, has only one output and I have three receivers and I needed to feed the preselector output to all three receivers (not at the same time) when needed.

To use this setup, two double ended patchcords and a jumper cable are necessary. (The jumper cable is just a patchcord with an alligator clip at one end). One end of a patchcord is permanently in Box #1 while the other end plugs into whichever receiver I am using at the time. Normal tuning procedures then apply.

I found in this arrangement that neither frequency diversity nor space diversity could be used. (Frequency diversity is using two different freqs for the same station and space diversity is using two different antennas $\frac{1}{2}$ -wavelength apart on the same freq). So it was necessary to construct the jumper cable. The plug end of the cable is used at the antenna patch panel and the alligator clip is attached to the input at the jack on the receiver patch panel. There is a slight loss when this arrangement is used but on fairly strong stations the loss is negligible. The jumper cable bypasses the tuner and preselector.

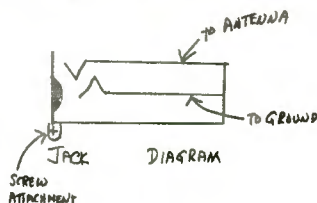
The reason for the two double-ended patch cords is that if you wish to bypass the preselector and tuner and use 2 receivers at the same time this can be done quite simply by disconnecting the setup from Boxes #1 and 2 and patching direct from antenna to receiver.

The simple test to see if this working properly is that if you only hear receiver noise in your speaker or headphones, there is an improper connection made somewhere. This whole system works on the same principle as an on-off switch: when it is on current flows, and when it is off no-current flows.

Just for informational purposes: on my old system I used to receive the BBC, and a couple of other.....

After reading F. Earle Hall's article (Antenna Switching Simplified) in the June issue of FRENDX, I was suddenly aware that my own antenna switching system was completely inadequate. Since I do not have the room to use his idea, it was necessary to take the same plan and put it in smaller form. (My old system was just a grounded rotary switch with all four of my antennas attached to it and the feedover was terrible.)

So, rummaging through my "junk-box" with the idea of using his plan, I found that I had no switches or anything to make even a reasonable facsimile thereof. I did find that I had a large assortment of jacks, jack plugs and twin lead coax wires. WHAM! The idea hit me so suddenly I had to sit back in astonishment and wonder why I hadn't used it before! I work with a more advanced system in my job as a Radioman in the U.S. Navy so there was no reason why I couldn't jury-rig



JACK PLUG DIAGRAM

R-4B --CONCLUDEDfrom the VFO screw shaft and elsewhere and replace it with a thin coat of petroleum jelly. This makes for smoother operation, less wear and better stability.

R-4B OPERATING TIPS

Especially if you are into utility DXing, you may have need for more than the 10 accessory crystal positions provided. There are two things you can do to overcome this: First, any of the inboard xtals for ham-band use can be removed and replaced with xtals appropriate for that bandswitch range. In practice, this gives you 3 or 4 additional sockets. Second, you can leave the #1 socket position vacant and, by feel from the front, insert any extra

crystal into it in a few seconds. This gives you 14 SWBC xtals and 1 vacancy for an infinite number of additional crystals.

If you've found sensitivity lacking on 31 meters, you

may care to try putting the bandswitch in the 14.0 position, rather than the 7.0 position suggested in the instruction manual. This tends to improve sensitivity without producing any ill effects.

Another tip is that the R-4B can be used in the "exalted carrier" mode* very fruitfully to improve intelligibility, especially in the 2.4 and 1.2 kHz bandwidth settings. Here's how....

Tune in a signal QRM'd on the side. Set the lower-middle switch to SSB/CW Slow AVC; you will likely hear a howl. What you have done is to inject a local carrier (BFO) near the transmitted carrier; the audio frequency of the howl represents the distance, in Hz, between these two carriers.

As you tune, the howl will get lower in pitch as you approach the center of the station's signal. Finally, you will reach--with very precise tuning--a point at which the two carriers (transmitted and BFO) will be "in phase", i.e., exactly on the same spot, and not only the howl will be gone, but the voices will sound "normal"; like the "normal" flesh tint on a color TV set.

Now you can tune the passband control around for the best performance; select USB if the interference is on a lower frequency and LSB if the interference is on a higher frequency. Does it make a difference? Switch the lower-middle knob to "AM" and see!

Finally, if you are into tape recording, you can use the "spare" RCA socket hole in the rear of the chassis to advantage. Install there an RCA female socket, connecting to it a 17" length of coaxial cable. Solder the center lead of the coax to the center lead of the RCA socket and solder the coax braiding to the outer portion of the RCA socket.

Connect the other end of the coax to the AF Gain potentiometer, soldering the center coax lead to the lug nearest the copper chassis and the coax braiding onto the lug farthest from the copper chassis.

You may now connect your tape recorder directly to your set and get high quality recordings, especially when you use the "microphone" input of your recorder, i.e. the high-gain socket normally designed to be connected to your microphone.

You can put this new connection to other uses, too. You can use it to run shortwave programs through your hi-fi system. You can run your tape deck's output into the new connection and use your R-4B's audio system to hear your tapes. There is even a way by which you can connect a wireless microphone to your new socket and transmit your favorite shortwave programs through your neighborhood on FM. Ah, but that's another matter!

*The benefits of exalted-carrier are detailed in a FRENDX article by Editor Al Niblack; reprints are available from NASWA headquarters.

 ANTENNA SWITCHING- (Concluded)....strong stations, at -11 db with about +5 db of noise. With this new system the figures are almost reversed: these same stations come in at +8 db with about -10 db of noise. (This is based on 0db=6mw at 600 ohms). Using the right combination, this propagational noise can be made to disappear almost entirely. Carrier level input increased from 20db to almost 60db and higher in some cases. For those who are more technical minded, you may wonder how I received anything at all. My answer is that I wonder too! On SWDX this system has pulled in my 108th to 112th countries, all low power stations, and has also boosted my MW total a lot.

48 00	Shortwave Solitaire Anyone?				SPECIAL LOG SHEET STATIONS HEARD BY NAME ONLY--DETAIL AND DATA IN REGU- LAR LOG.DON'T TH- INK ANYONE WILL NEED MORE THAN 7 COLUMNS!	
05	By JOHN TUCHSCHERER					
10	Bands a bit boring at times? QHN gives you a					
15	queasy feeling? Ragged nerves from all that					
20	RTTY?					
25	Add a little spice to your listening and play					
30	SW Solitaire. Here's how:--					
35	1. Pick a band. This choice will depend on					
40	your QTH, listening time available and specific					
45	station interest.					
	45	R.CATOLICA	BUKARANANGA	BOTSWANA	TERESINA	R.FIDES

each frequency of the band you have selected.

3. Start today and everytime you hear a station record it by frequency on this special log. Object of the game is to log at least one station per frequency but, of course, the more logged the merrier.

4. Game continues for 12 months. Then count total stations heard.

Sorry, Charlie, no prizes.

As a diversion, I played the game as described above during the period Sept. 12, 1971 through Sept. 11, 1972 on 60 meters. Although I was not able to concentrate on 60m to the extent that Anker Peterson did back in 1969 (See his excellent article "DXing 60 Meters" in "How to Listen to the World", 1971), I was most pleased with the results. One of the "goodies" logged during this period was Beira, varying 4891 to 4890, though it took many nights monitoring before I got a positive ID.

Stations were logged on all frequencies except 4835 and 4935. The log was kept in 5 kHz increments and such stations as Grigota and Capital were recorded on the 4830 line, with actual notation as 4832 where actually heard.

Let's suppose you decided to give the game a try on 60 meters. Faithfully you have recorded every station heard. Six weeks have elapsed and you have heard 5 different stations on a single frequency. Fine business! But what about those blanks? Monitor as often as time permits those frequencies for which you have no loggings. And don't be satisfied with one station per frequency. Look and listen for the low power stations when the stronger ones close down. Your patience will eventually be rewarded with additions to your station total, or perhaps even your country list.

SW Solitaire--It's fun and educational and maybe even surprising.

WARNING! Play game at your own risk. Seems International DX Superstar went berserk when his wife turned on the vacuum cleaner just as Radio Maldives was about to ID.

Vatican Radio--Where?

NASWA Member John Tuchscherer (see article above) has called to our attention an excellent long article, with many illustrations, on Vatican Radio in the July issue of "Columbia", national magazine of the Knights of Columbus, which may be purchased for 25 cents.

The article seems to resolve the dispute over whether all Vatican transmitter sites are on Vatican territory. "Vatican transmitters are on Vatican territory exclusively," the article states. Says: The transmitter site at Santa Maria in Galeria, a tiny rural community on the northwest edge of Rome, "was acquired by the Vatican in negotiations with the Italian government/the transmitter site at Santa Maria in Galeria enjoys the same extraterritorial status as St. Peter's basilica." Get the article--you'll enjoy it.



what's doing

China's electronic industry has doubled its pace in producing radios and television sets for the people. The Chinese press reports there has been an incessant growth in the number of peasants in the rural areas buying radio sets. Production of receivers has increased in 1972 by 12 per cent over the same period of last year. The electronic industry is particularly well developed in such industrialized places as Shanghai, Kiangsu Province, Peking and Shantung Province, the agency says. Is it just a question of time before China will be exporting SW sets to the U.S.? Will, by the way, Perry Ferreel be reporting on their availability via Gilfer one of these days? Who knows? Meanwhile, Ulan Bator reports a SW rx costs \$175 in Mongolia but they are unable to hear the VOA from there. Tit for tat!

North American Short Wave Association

QUESTION I'm thinking of buying Heathkit's GR-78. Any comments? How would you rate it 1 to 10 for receivers in its price range? ...I haven't ever used one, and don't believe I'd want to try such a rating if I had. However, for the price(\$130 plus shipping) one ought to be able to find a used Hammarlund with better selectivity than the 7.5 kHz at 6 dB down which Heath quotes for the GR-78. Anything that wide is simply unuseable on today's crowded bands....I recently obtained a used Hammarlund HQ145A at well below the price of the GR-78 or DX150 receivers. For my money, that's the best way to go. Only thing that might cause problems is that, from what I've been told, Hammarlund cannot supply parts should they be needed.

QUESTION What is the QTH of Partridge(Joymatch)? Of Hammarlund? Of Lafayette? For Partridge, contact Bill Paschke, 855 Elm Street, Beloit, Wis., 53511. Bill has considerable data on Partridge equipment. Hammarlund is not currently manufacturing DX type receivers, according to what I've been told, and I don't have a current address on them. Nor, strange as it may seem, can I locate an address for Lafayette at the moment. A note on the latter two would be appreciated from someone in the know, both to HDQ, and to Paul Boudreau, 247 Willow Drive, Gretna, LA 70053.

RADIO CANADA SHORTWAVE CLUB The October 6, 1973, edition of the RCSWC program will be extended to mark this WORLD DX FRIENDSHIP YEAR 1973. The program will bring together, via transoceanic cable, Arthur Cushen of New Zealand, Harry Van Gelder of Radio Nederland, Arne Skoog of Sweden Calling DXers, and Reg Kennedy & Henry Hatch of the BBC World Radio Club, hosted by Bob MacGregor at RCI in Montreal. Times are as follows..... October 6, 1973

0706 to Africa	on 21600, 17820, 15325
0706 to Europe	on 6125, 9655
0838 to S.Pac.	on 9625, 5970,
1224 to Eur/NA	on 17820, 15325, 5970,
1224 to Carrib.	15315, 11720
1839 to Africa	on 17820, 15320, 21595
2115 to Europe	on 21595, 17820, 15325
2306 to Carib/USA	on 9625
2306 to LA	on 15190, 11945
0106 to NA	on 15190, 9625, 6085

There will be a contest in conjunction with the program. RCI will issue a special QSL card for all correct reception reports during the week of October 1 to 7 inclusive. Give 'em a listen!

WORLD UTILITY DXers HANDBOOK It is rumored that one or two NASWAs occasionally tune for QRM UTES. Should you be one of those you may well be interested in the "WUDXH". We haven't seen it, and would be unqualified to comment on it if we had, not being involved in utility listening. We are told it will be on 8 1/2 x 11 inch paper for insertion in 3 hole binders. Cost is \$7.95 for non-SPEEDX members. Order from Jack White, 780 NW Wallula, Gresham, Oregon, 97030. If you'd like more info, it would undoubtedly be available

QUESTION In the article by Ed Shaw on the use of a tape recorder in DXing, emphasis is placed on reel to reel recorders. Do not stations accept and have facilities to play cassette tapes?...No. Cassettes are not used in radio stations, although cartridges may be used in other advanced countries, like UK, Japan, Germany, Holland. US DJ's find these handy. Otherwise, cassettes are little used except for personal business in other countries. Stick to reel recordings if you can. One side only, 7 1/2 or 3-3/4 speeds. (ECS)

QUESTION Would you please write a short paragraph in MAIL CALL on the subject of the A-index and its value in low band DXing. When is the A-index broadcast in WWV transmissions? What do the A numbers stand for? Do low A numbers mean good low frequency conditions might be present or vice versa?...Information is as yet incomplete on the use of the A index in DXing low SW frequencies. Efforts are being made during the upcoming DX season to obtain sufficient data to analyze & hopefully arrive at some procedures that will enable the individual DXer to, with some degree of reliability, make the decision as to whether he should try for some DX, or do something else, like maybe sleep in the mornings! At this point, however, one can only give some preliminary results, and some hypotheses...The daily A index, broadcast by WWV at 18 minutes past the hour, is essentially an average of eight 3 hour readings made during the day. As I understand it(Gordon, if I'm wrong, please correct me!) the higher the A index, the higher the degree of auroral activity. It must be recognized, however, that the daily A index, for the previous day, broadcast by WWV is an average, and the DXer is in need of knowing just what is the current situation, not yesterday's, not today's average, but the current activity. But why is it useful? Again, as I understand it(Gordon?), the higher the current value, the further south the auroral

donut moves. For signals that must pass through that auroral donut on their (great circle) path to the receiver, this means that there will be greater auroral absorption. The effect is greater at lower frequencies - thus the interest of 90 & 60 meter band listeners in the subject. The absorption can mean that interfering signals are weakened or eliminated, while, possibly, other signals arrive (from more southerly directions) at useable levels.

All this means, really, that the current A index would mean different things to DXers located in different areas of the world, even in different areas of North America. There has been some data indicating that, for example, good reception of East Africa on WCNA at 0300 or thereabouts, depends on the A index (current) being in a certain range, rather than very low or very high.

It is a very complicated subject, and much work needs to be done in order to develop some useable predictive tools for the DXer. All that can be said at this time is that it does appear from data gathered over the past year, that the A-index may well prove to be a useful tool.

As mentioned above, careful monitoring efforts will be made over the next several months in an effort to provide some hard data to evaluate. Anything of this nature requires a great deal of data, and a great deal of work evaluating that data before anything at all can be said at any useful level of confidence. As soon as further information on the subject is available, we expect to present it to FRENKX readers. Dan Ferguson

PROPAGATION will be the subject of a special project to be undertaken shortly. Some of you who are DSWCI members have the January issue of their bulletin containing the maps & charts for use in determining the great circle path & darkness path at any given time. We will, through arrangement with DSWCI, be putting the charts/maps on transparencies, in such a manner that members will not have to draw their own maps, and so that tracing paper does not have to be used.

DANISH SHORTWAVE CLUB INTERNATIONAL Larry Magne, editor of NASWA's CLANDESTINE BULLETIN, is the new NA representative of DSWCI. Full data on the club is available from Larry. See the CB section for his address. DSWCI is, in the opinion of this writer, the top club in Europe. NASWA members looking for a European club to join will be hard pressed to beat DSWCI.

HELPING HAND For sale...Sony CRF-150 double conversion SW portable. Ten SW ranges from 1.6 - 26.1 MHz. Also FM, LW, and AM. Like new, \$110.....Also, Hammarlund HQ180AC, w/24 hour clock, noise blanker, new tubes, realigned, new spare tubes. Immaculate \$300. Write Tod Hutchings, 18 Seckelpear Rd., Levittown, PA 19056. Phone 1-215-946-9546.

QUESTIONS How do I get something in "HELPING HAND"? Easy, just send in the info. Helping Hand is a service to members. There is no charge. Nor do we accept any responsibility for equipment advertised through "helping Hand". DF

AND SPEAKING OF RESPONSIBILITY, we know of only one mail order source of SWL/DX gear from whom we would be willing to order anything. That is Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656. We are not able to recommend the syracuse dealer as a number of people have had difficulties getting materials/equipment ordered, according to information received here.

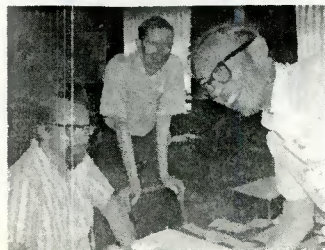
IT IS AMAZING JUST HOW MANY "DX" CLUBS THERE ARE IN THE WORLD! We maintain exchange memberships with quite a number of clubs, as it benefits both clubs. However, we are frequently approached about "exchanging bulletins" with clubs which are primarily of a very local nature, and whose bulletins contain little or nothing of interest to our members that we wouldn't be receiving already direct from members reports, etc. While we try to be as friendly as possible in the "bulletin exchange" matter, there must be a limit: If we "exchanged" with everyone who requested the exchange, we would soon be doing not much else! While we favor the local group idea (ODDX, CADX, BADX, MAD MEN-that's Manitoba area, sorry Maryland! - CONN MEN, etc.), we feel the best approach for these groups to take is that taken by those mentioned. They have area get-togethers, talk abt DXing, support the clubs of which they are members, even in some cases have a small bulletin. But they have tried to build up what has not heretofore existed in NA DXing circles - the local DXing group. More & more local groups are trying the "DXpedition" approach to meetings. (Like the Mountain Creek DX Association one & only convention last year!hi. And watch for the POOR DX CLUB - really! We've got a meeting in a few days!)*....On these "DXpeditions", even if conditions are nothing to brag about, a good time is always had by all....I even bought a tent & associated equipment, a station wagon to pack it in, an SX-190 for battery operation, and a lot of wire, primarily for DXing trips into the wilderness. (That's antenna wire, not extension cord!)*....And when good conditions coincide with a DXing trip, you can really turn up some goodies; as Ed Shaw and I discovered one day last winter, and as Dan Henderson discovered on some of his trips to western USA, when conditions are good it makes it even better out away from power lines, etc. And out where there is plenty of space for antennas. Dan F.

ANARC

The Association of North American Radio Clubs (ANARC) held its annual convention from July 27-30, 1973 at the Fabulous Inns of America in San Diego, California. Around 50 radio enthusiasts from all sections of the United States attended the convention. All the ANARC member clubs were represented at the meeting. The activities began on Friday, July 27 with registration. A meeting of ANARC representatives and club officers was held after the registration had been completed. Convention Chairman Father Jack Pejza then opened the convention officially. A round table seminar on "Various Aspects of DXing" was held, with Steve d'Adolf talking on Utility DXing, Father Jack talking on ECB DXing, and Woody Seymour talking on Shortwave DXing. Other forms of DXing were also touched upon briefly. At the conclusion of the seminar, the DXers conducted informal seminars of their own, some of which lasted into the wee hours of the night. The conventioners assembled Saturday morning for a trip to two radio stations.



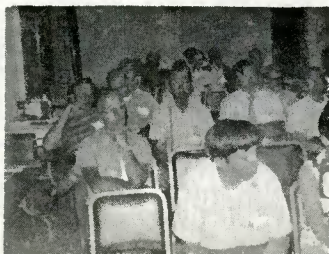
Fabulous Inns of America



Bill Flynn(right) registers while Father Jack Pejza(left) and Al Reynolds(center) watch.

They first toured the studios of KFMB AM-FM-TV, a major San Diego broadcaster. Engineer Doren conducted a thorough tour of the facilities. The DXers next traveled to the site of a U.S. Navy radio transmitting station, where they marveled at the various transmitters and antenna systems (See picture on next page). Upon their return to the Fabulous Inns, the conventioners had an opportunity to see the latest receivers from Swan Electronics in the company's mobile display van. The rest of the afternoon was spent with meetings of the individual clubs. In the NASWA meeting, discussion centered on the satisfaction of those present with the operation of the club. The main accomplishment of the meeting was the taking of a group picture (See bottom of next page). After the group meetings had been completed, the DX contingent went to their rooms to prepare for the convention banquet. A no-host cocktail party was held prior to the banquet. At the banquet (the meal consisted of stuffed chicken breasts, etc.), ANARC Executive Secretary Al Reynolds spoke briefly to the group. Then Father Jack Pejza introduced the speaker for the evening, a representative of U.S. Naval Communications. An interesting film on naval communications was shown, after which questions were fielded by the speaker. At the conclusion of the banquet, the DXers and their guests left the Hanalei Hotel (the site of the banquet) and returned to the Fabulous Inns for a business session of ANARC conducted by Executive Secretary Al Reynolds. During this meeting, a brainstorming session was held, in which the DXers were challenged to come up with new ideas to improve the operation of ANARC or "How Can ANARC best help its member clubs?" Many new ideas were presented and some of those present were delegated responsibilities in the implementation of new ANARC programs. Al further issued a plea to all member clubs for some sort of input to him during the coming months. The DXers then adjourned for the night, but it was rumored that some late night DX sessions

Father Jack talking on ECB DXing, and Woody Seymour talking on Shortwave DXing. Other forms of DXing were also touched upon briefly. At the conclusion of the seminar, the DXers conducted informal seminars of their own, some of which lasted into the wee hours of the night. The conventioners assembled Saturday morning for a trip to two radio stations. They first toured the studios of KFMB AM-FM-TV, a major San Diego broadcaster. Engineer Doren conducted a thorough tour of the facilities. The DXers next traveled to the site of a U.S. Navy radio transmitting station, where they marveled at the various transmitters and antenna systems (See picture on next page). Upon their return to the Fabulous Inns, the conventioners had an opportunity to see the latest receivers from Swan Electronics in the company's mobile display van. The rest of the afternoon was spent with meetings of the individual clubs. In the NASWA meeting, discussion centered on the satisfaction of those present with the operation of the club. The main accomplishment of the meeting was the taking of a group picture (See bottom of next page). After the group meetings had been completed, the DX



Some relective DXers



ANARCers at U.S. Navy radio transmitting station(All photos by Woody Seymour)

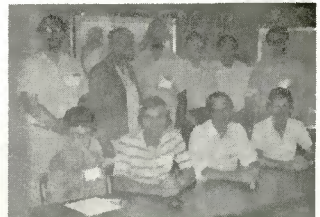
the time. There were many activities in the San Diego area for the tourist, including the world famous San Diego Zoo, Tijuana(Mexico), Sea World, and the Harbor Tour. Those arriving by air had a thrill in the low approach to the airport over downtown San Diego. Whew! Some random notes...NASWAer Rob Harrington(RHX) would have to be considered the official photographer of the convention. Rob must have taken dozens of pictures as well recording most of the proceedings on the San Diego Tapes...Many fine compliments were given the Fabulous Inns. The quality of the place was evidenced by the fact that your reporter hardly noticed the freeway, horse stables and golf course located on various sides of the hotel. And for those who attended the convention in Boston last summer, the air conditioning worked(though it was not really needed)!..Charlie Loudenboomer was at the convention, and when asked to give a comment for this report, he replied "No Comment"...As is the case at most conventions, there was a lot of free literature available to the conventioners...As a souvenir of this year's convention, each registrant was presented with a certificate from Dan D. Receiver, Executive Secretary and Mike R. O'Phone, Convention Chairman of ANARC(Anachronistic and Nomadic Auroral Radio Club)-(that's the way the certificate reads, folks!). It was a great convention!

Group Picture 1

Charlie L. was there! ↘



Group Picture 2



NASWA members in attendance: 1st picture(L-R) Sitting-Elinor Leistner, Alan Brooks, Al Reynolds; Standing-Lou Leistner, Woody Seymour, Steve d'Adolf, Bill Whitacre. 2nd Picture(L-R) Sitting-Agnes Herbold, Scott Dickson, Larry Marshall, David Whaley; Standing-John Kolb, Harry Johnson, Don Johnson, Bill Flynn, David Browne, Larry Nebron. Not Pictured-Rob H.

(Con't) were held. Sunday morning some of the conventioners went to a Ham meeting held at another hotel. Others went to church or slept late. Sunday afternoon many of the DXers went to a softball game and picnic at the beach(along with the Second Annual Steve Kamp Pool Party). Others planned different activities(this reporter attended a Major League Baseball doubleheader). Sunday evening the remaining DXers(many departed Sunday afternoon) heard a technical seminar conducted by Grant Manning. Various ways of stopping manmade interference were discussed during this informative seminar. At the conclusion of the seminar the convention was adjourned by Father Jack, and the convention was then a collection of wonderful memories. Some mention should be made of the San Diego area. The climate was mild, with temperatures in the 70s. The air was clear and there was a sea breeze most of the time in the San Diego area for the tour-



Al Reynolds addressing the group at the banquet

.....Woody Seymour, Jr.

Log Report

NASWA LOG REPORT
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- 2360 GUATEMALA R.Maya good at 0130 w/mx, SS ID, (Heutte)
2446 REUNION ORTF St.Denis 0235-0305, 7/6 FF guitar mx, 0300-nx, FF tx by
OM, YL (Cwikla)
3139 COLOMBIA UNID prob. harmonic, many days at 0400-0500* mentions
"Super Radio" (R.Perry)
3204 NIGERIA RNI Ibadan pop mx 0435 on 8/4 (Reeves)
3215 DOM.REP. R.Libertad 0035-0400, light mx, ads, ID as "la emisora
nacional" irr. s/off (Lohe, Reeves, Wallace)
3227 LIBERIA ELWA good at 2300 with EE nx (Heutte-Que)
3240 PERU R.America fair at 0300 with SS nx (Heutte-Que)
3245 VENEZUELA R.Liberator 0127-0140 ID by OM @ 0130, SS nx @ 0131 on
7/16 (Mayer)
3250 S.AFRICA RSA 0215-0230 EE on 7/16 RSA Coffee Club, tea bag comms.
(Cwikla)
3255 VENEZUELA "La Voz del Tigre" 0245 LA mx, ID's (McCall, Estes)
3255 LIBERIA ELBC fair @ 2300 w/EE nx, light mx (Heutte-Que)
3260 NIGER low level w/chants 0540 (Reeves)
3265 BRAZIL R.Riberao Preto fair w/soccer @ 2345 (Heutte-Que)
3270+ ECUADOR R.Cosmopolita HC mx, also TC's, ads, ID after every song,
mentions of Ambato, Quito, lots of UTE, only 8/3 @ 0405-0443* w/
fanfare (Reeves)
3275 VENEZUELA R.Mara 0051-0202 LA mx, SS, anns. (Megysey, Tuchscherer)
3275t PAPUA R.South.Dist. 1015 w/island mx, unid lang faded 1030 (Behr)
3290 GUYANA Action R. good at 0300 w/bluegrass mx (Heutte) 0800-IS,
*0815, mx (Megysey)
3295 VENEZUELA R.Trujillo good at 0135 with LA mx, anns., ID's (Heutte)
3300 GUATEMALA TGNA 0100-0300 ID on 1/2 hr and hr. SS/EE rel. px. Straus
(Yamron, Spayd)
3315 BRAZIL R.Gazeta 2350-0010 7/15, PP, US pops, nx, ads, (Lohe)
3315 MARTINIQUE Ft.de France 0235* FF (McCall)
3315 VENEZUELA R.Maracay 0030, 7/17 SS, LA mx, ads with exuberance
(Miller)
3316 SIERRA LEONE RSL 2300-2330* with mx, nx, s/off, anns. in EE (Heutte)
3320 S.AFRICA RSA Int.Svc. EE/Afrik. nx, mx, anns. 0130 (Spayd)
3323 PAPUA R.Bougainville 1056, 8/4 Pid, c&w mx, into lcl choral mx
1100 (Miller)
3325 VENEZUELA R.Monagas 0340-0401* SS, 7/7, LA mx, full ID and NA*
(Tuchscherer)
3325 GUATEMALA R.Maya 0254-0310 SS, 8/4 rel.tx. (Tuchscherer)
3325t ECUADOR Ondas de Vendanas 0745 SS tx, LA mx, (Wallace)
3331 COMORO IS. Moroni 1900 Vern. prob nx @ 1900 to lcl mx covered at
times by phone sta. (Martin)
3335 BRAZIL R.Marajoara 0115-0200 7/8 only PP, LA mx, pops& rock (Tuch'r
3335 INDON. R.Wewak 0953-1000 chorals, pops (Robinson)
3339 ZANZIBAR RTZ *0300 w/AA chants, Swahili anns., (Heutte)
3346 ZAMBIA Lusaka Gen.Svc. 0430 ID, soul pops, lcl mx, EE/Vern. anns,
(Perry) rel. tx., to 0440 fade on 7/23, 7/27, 8/4 though list 0430*
(Reeves)
3350 GABON Franceville relay*0420-0433 var.s/on, IS of lcl mx, non-
military NA & several ID's to 0530 fade, at times //4777, AA chant
hi-life mx, FF tx, at 0530 hit by Ghana s/on but usually gone by
then 7/23, 7/25, other times (Reeves)
3350 GHANA RG fair at 2300* with anthem (Heutte)
3355 N.GALEDONIA R.Noumea 1057, 8/5 FF, nx, "Marsellaise" off @1100
(Miller)
3355.5 DOM.REP.LVde la Romana (list) 0330-0402* w/HI NA, but no ID under-
stood (Reeves)

- 3360 PAPUA R.MilneBay 0950 EE tx, (Robinson)
 3366 GHANA RG good @ 2300* after EE nx, NA (Heutte)
 3375 ANGOLA Em.Off. 2305 PF, pop mx, m&w tx, (Martin)
 3380 GUATEMALA R.Chortis 1113, 8/4 SS ID, LA mx (Miller)
 3380 MALAWI MBC Blantyre 2200, EE m&w anns. off at 2210 w/ant. (Martin)
 under R.Iris 0345-0420 mostly tx(EE/Vern), NX-C400 (Reeves)
 3381 ECUADOR R.Iris 0345-0454* the usual, off w/sked & "hymno nacional
 de le republica de Ecuador"(Reeves) 3378 to 0500*(McCall)
 3385 PAPUA R.Rabaul 1000-1200 Pid. native chorus & songs (Robinson,
 Miller, Mayer)
 3385 FR.GUYANA ORTF 0112-0135*, 0137* mx, NA, FF (Tuchscherer, Lohe)
 3385 VENEZUELA R.Barcelona 0354 into nx, chimes bet. items, 0357-ID,
 ID on the hr, anthem and 0405*(R.Perry) 0400* (Heutte)
 3390 ECUADOR R.Zaracay good @ 0330 w/some RTTY (RM, Andean mx, (Heutte)
 3395 VENEZUELA R.Universidad SS, mx ID-0345, 8/1 (Mayer)
 3396 RHODESIA RBC Gwelo 0420 EE, ads, TC's, DJ patter, orch'l pops, 7/
 31, 8/4, (R.Perry, Miller)
 3396 NIGERIA RN Kaduna (the last of the 9 NBS outlets for me) 0515-0600
 fade out W.Afr mx, AA chants 7/27 (Hausa/EE) (Reeves)
 3668 TIMOR R.Dili 1130-1600 PP, some Amer. pops, 1200 ID, 1600 ID,
 (Robinson, Smith, Muhlhaupt)
 +3905 INDON. J.Irian RRI-Jayapura, Islamic chants, 0840 on 7/24 (Padula)
 3910 JAPAN FEM Tokyo, world nx 1000, ID-1005 // 6155 (Robinson)
 3925 INDIA AIR-Delhi 1100-1115 7/29 lcl lang. Indian chorus mx (Nebroy)
 3925 PAPUA ABC 0830-1130 EE tx, ID as "Nat'l SW Radio", nx as sked,
 (Smith, Reeves)
 +3945 INDON. RRI-Denpasar mx w/OM in Indon. tx, 1200 "Inilah RRI Studio
 Denpasar" into Djakarta mx (Robinson)
 3952 S.AFRICA RSA Int.Svc. EE/Afrik. IS//3320, 0445-0540 tho list 0521*
 BBC sked here also, not heard (Reeves)
 3965 S.AFRICA SABC Int.Svc. EE 2315 TC @ 2321 (Martin) 0450 7/31, 8/1,
 not here 7/30 seems// 3285 past 0540 tho list 0520* (Reeves)
 3971 CAMEROON R.Buea 0450 open carrier, 0457 mx, IS, NA *0500 FF ID &
 lang. tx, AA chants, W.Afr mx to 0545 fade, regular tho not always
 heard too good (Reeves)
 3985 ECUADOR Radiofonica Popular 1015-1030, 0300-0340 th usual (Reeves
 3990 TAIWAN AFRTS 1045 EE 2-AFRTS ID's OM tx, mx "you've got to hear it
 to believe it" on 8/5 (Hardester)
 3990.5 LIBERIA VOA 0620 m&w DJ's in lang. drums, EE ID-0630 7/28 (Burlew)
 3995 SOLOMON IS. 0730-1115 EE mx, ABC nx, 1115 GSTQ to 1117* (Reeves,
 Behr, Mayer, Robinson)
 +3995 INDON. RRI-Bjak w/nx @ 1200, tx past 1215 after SIBS s/off (R'bsn)
 3997 S.AFRICA RSA Int.Svc. 2315, 0440-0540 EE tx, ID, nx//3250 @ 0500-
 0540 (Reeves, Schwartz, Burlew, R.Perry)
 4350 UNID FF YL tx 0400, strong signal thru jamming, any ideas? (Muhl
 haupt)
 4610 USSR Khabarovsk, 1038 class. mx, RR anns. regular, 8/4 (Padula)
 4620 CHINA PR Peking, Korean Svc. 1305 8/4 (Padula)
 4679 ECUADOR R.Nac.Espejo 0352-0445 SS, sports, lcl mx, 0500ID (Step-
 hens, Martin)
 4688 ECUADOR R.Nac.Espejo 0351-0409 SS, LA mx, TC, nx (Barto)
 4747 BRAZIL Em.Acreana FF mx, clear ID's during PP tx, 0420 past 0505,
 fair on 8/4, clear freq. no distortion, previous distortions caused
 by nearby UTE's (Reeves)
 4749 ECUADOR R.El Mundo, mx to 0345 when SS tx, ment. Guayaquil, fair
 not 3kw, trans. prob? (RM-R.New York 4746 8/7 (Reeves)
 4750v ZAIRE R.Lumbumashi 0405-0530 W.Afr mx, FF & vern. tx, Beware last
 three listings 4747, 4749, & 4750 have never heard 2 at a time, all
 are fair reception, almost similar px, I think I got it right
 though (Reeves) I'm sure they are Scott-ed.
 +4750 CHINA Hailer (listed) revolutionary sgs 1305 8/4 (Padula)
 +4764 INDON.RRI-Medan still noted this spot 1100 past 1230, Fak Fak
 continues on 4790 @ 0900-1300 (Padula)
 4766v ECUADOR C.R.E. list. tx w/various ID's 0230-0500* as R.Esmeraldas,
 Em.Gran Colombia, CJAZ, R.Cenit. etc., Nat'l/ internat'l nx @0330-
 0340 (Reeves)
 Sorry folks, got a couple out of place here-ed.
 4755 DOM.REP. Onda Musical LA mx, SS ads, anns. @ 0215 (Ball) 0400 LA
 mx (Martin, Stephens)
 4755 BRAZIL R.dif do Maranhao 0240 PP anns., mx (Ronda)
 4755 COLOMBIA Em.Nuevo Mundo, Caracol 0400-0457 SS, ID, musical ads,
 LA mx (Ball, Miller)
 4765 CONGO LV de Rev. 0505 7/20 FF OM tx, YL tx (Eichenhorn)
 4765 BRAZIL R.Soc.de Feiro do Santana 2300-2337 PP Bossa Nova mx, ads,
 TC & abrupt s/off 7/15 (Lohe) 0015 PP heterodyning carrier on this
 freq. mx, nx, many ID's (Wootten)

- 4777 GABON RTVG 2245- 2300* FF Afr mx, 8/9 (Gendron)
- 4780v ECUADOR R.Atahualpa is pretty reg. 0315 and later, on 7/16 past 0650 hetting Mali 4781 mostly mx, few tx (Reeves)
- 4780 HINDURAS R.Juticalpa 0227 SS mx, ID (Stephens)
- 4780 ECUADOR R.Progreso 0510-0525 SS, Andean mx (Tuchscherer)
- 4785 PERU R.Atlantida 0400 SS pop & lcl mx running to 0510 (Martin)
- 4790v ECUADOR Em.Atalaya 0300-0450 SS, ID, ads, LA mx to 0457* (Miller, Lohe, Tuchscherer)
- 4795 BRAZIL R.Tabjara, rel. px, PP pops 0856-0930 (Reeves)
- 4796.5 BOLIVIA R.Nuevo America 0320-0504* SS propaganda, ads, ID's, pop mx, 7/17,7/19,7/20,7/31.s/off varies about 0500 (Reeves)
- 4800 ECUADOR R.Popular 0345-0359* class. & lt.mx, SS ID (Wallace) 0400-0630 (Reeves) s/off 0359* and heard 04-0600,eratic sked?-ed.
- 4800 VENEZUELA R.Lara 0026-0341 LA mx, ID's also @ 1100 (Tuchscherer, R.Perry, Stephens, Ronda, Reeves) I guess it's back Steve!
- 4806v BRAZIL R.Amazonas 0335-0350 PP on 7/8 LA mx, UTE free for 15 minutes (Tuchscherer) 0855, heard once past 0520 (Reeves)
- 4810 VENEZUELA R.Popular 0058-0341 SS, mx, ads, ID (Ronda, Stephens)
- 4815 cf. July LR report of R. Canal Manabita to 0501* is unlikely; only R.San Martin is noted here to 0500* (Behr)
- 4815 ECUADOR R.Canal Manabita 0410-0420 SS, LA mx, ID 8/3 (Tuchscherer)
- 4815 PAKISTAN Quetta locla nx in Urdu 1515, ID-1518 on 7/21 (Padula)
- 4820 INDIA AIR-Calcutta *1225 w/ID's, lcl nx,@ 1230 7/23 (Padula)
- 4820 ECUADOR R.Faz y Bien 0515 -0628, 0930-1030, HC mx, SS 7/31,8/1, ID's, gongs (Reeves,Perdue,Ball)
- 4820 GAMBIA RG 0730-0800:45* vern. tx, chants, some EE, off w/IS (Reevg)
- 4820 HONDURAS HRVC to 0330* EE 7/16 rel. px., s/off- ID & freq (Lohe) 0335 EE rel/ px. (Stephens)
- 4826 ECUADOR R.Luz y Vida 0330-0352 SS 7/16 female ann. lively Andean mx (Lohe)
- 4832 COSTA RICA R.Capital 0100-0600* the usual (Stephens,Martin,Cwikla, Burlew,Wootten,H.Peters,Ronda)
- 4835 BRAZIL R.Triangulo Mineiro 0817-0900 PP OM& mx, w/QRN only 7/27 (Reeves)
- 4835 GUATEMALA R.Tesulutan 0305-0345 SS, two speeches by OM's, still on at 0530 8/1 (Tuchscherer)
- 4839 INDON. RRI-Ambon 1315 Indo. 8/7 Indo.mx, rock mx, anns. in Indo. (Marshall) 4840khz. to 0933 Islamic chants (Robinson)
- 4840v ECUADOR R.Cindahayalas,mixing YV till 0456, chimes, net ID 0359 after class. mx, off w/march mx 0400* 8/7 (Reeves)
- 4845 BRAZIL R.dif.Teresina earlier than list, hrd 8/6, also is reg. to 0400* (Reeves)
- 4854 BOLIVIA R.Centenario 0529 ID after inst.mx, 8/1,7/25@0330 (Reeves)
- 4855 MOZAMBIQUE R.C. 1900 PP mx, futebol scores and lots of "hot air" (Martin)
- 4856 BRAZIL R.dif.Taubate IS to *0955 when ID's, freq. & call letters in PP (Reeves)
- 4856 cf. July LR-Report of R.Cobija to 0702* is very doubtful, if no ID was heard, only R.Chinchaecocha,Peru was heard here in May & June s/off at 0602 or 0702 (Behr)
- 4856 PERU R.Chinchaecocha positively not same as R.Cobija before, usually good-very good heard to 0402* on 7/22,23,24,31, 7/30 to 0502* 8/3 0230,8/7 0240, some days not hrd. R.Chin. is the main ID, tho there are others, off w/short IS(doubt Peru NA)(Reeves)
- 4865 BRAZIL R.Cl.do Para 0814 also late w/sports 7/13,15,25,28, 0310-0400 QRM-Colom. 4866(Reeves)
- 4865 BRUNEI RB under Chinese sta. in Malay tx by OM 1100 7/23 (Robinson)
- 4870 DAHOMEY Cotonou in FF OM 1936 (Calkin)
- 4872 INDON.RRI-Sorong 0944 Indo tx by OM, choral song 0946 also at 1100 w/YL tx (Robinson)
- 4874 DOM.REP. Onda Musical 0326, ID, SS mx (H.Peters)
- 4875 BOLIVIA La Cruz del Sur 0200-0304* SS,mx,tx,ID's EE rel.px. on lcl Sun. (Reeves,Stephens)
- 4880 ZAIRE no QRM 0410 chants & Drums, some FF in tx,px 0415 (R.Perry)
- 4880 VENEZ. R.Universo 0050-0130 SS on 7/10 ID's (Ronda,McCall) 0956 (H.Peters)
- 4882 DOM.REP. R.Commercial 0524 SS, Amer pops/LA mx (Gendron)
- 4885 UNID 0430-0500* AA tx by OM, US inst. mx (Wallace)
- 4885 COLOMBIA Ondas del Meta -0257* SS, s/off w/ID & freq. NA (Lohe) 4884khz 0357-0430 SS TC's & ID LA mx (Cwikla)
- 4885 BRAZIL R.Proneira de Teresina 0400-0421* fair & distorted 7/30, 4886 on 8/7 @ 2300, 0306* w/ID 8/3, 4887 TC 0812 on 7/27 obviously variable (Reeves)
- 4886 PERU R.Villavia 0421-0440 7/30,HJ-het 4884 0415-0800a (Reeves)

- 4890 PAPUA ABC Port Moresby EE 1029 8/4 ID,TC, radio drama (Miller)
1200-1230 Amer mx, 7/15 (Nebron)
- 4890 VENEZUELA R.dif Venez. 0355 SS nxby OM then NA & off 0402 (Miller)
noted w/Amer pops, freq. & ID, string of comms. sometimes reaching
6 consecutive (R.Perry)
- 4890t MOZAMBIQUE R.Cl.Beira 0427 lang? 8/4 Afr. mx (ads?) (Miller)
- 4890 SENEGAL R.dif. 2200 PF nx, ID (Martin) repeating IS, anthem 0600
then "Ici Dakar" 7/17 (Burlew) 0755-0815 w/Aust. mix (Reeves)
- 4890 BANGLADESH Dacca Ext 3vc nat'l lang 2045 into EE 2100 ann'c'd for
ur. 7/30 (Padula)
- 4890 HONDURAS R.Lux 0220 SS 7/15 SS/EE pops, ID (Ronda)

Considering the fact that many DX-ers are extremely interested in the 60 mb. We urge all to take extreme care in reporting. This month there are many time contradictions, which may be due to erratic sta. skeds but if your report is not a positive ID, please note as such. Thanks to the new reporters and sincere 73's to all--ERJ

RADIO FREE AMERICA

Via telephone call from Larry Magne, NASWA's CLANDESTINE BULLETIN editor, we have the following flash information.....

RADIO FREE AMERICA, the shipboard station being put together by Dr. Carl McIntire, after the closedown of his New Jersey medium wave station, is soon to hit the airwaves. If all goes well the station could be on the air by the 6th of September. The used 10 kw RCA transmitter will be operating on 1160 kHz, from a shipboard location some 3½ miles off the New Jersey coast. Hours are not yet known; eventually the station plans to operate 24 hours a day.....Initially all program material will be taped....It is said that programming will be "more controversial than ever".

The antenna design will provide 2 lobes, and a heavy skywave component, so there should be some good skip signals.

QSL cards are being designed and will be printed shortly. Address reports to RADIO FREE AMERICA, CAPE MAY, NEW JERSEY, USA, ATTN: John Jones, Engineer

The government has reportedly said they will not jam the station, nor harass those supplying the ship.

NASWA's FRENDX will carry complete details in the October CLANDESTINE BULLETIN. Meanwhile, when you tune then in, listen for the NASWA interview to be broadcast!

READ NASWA'S FRENDX FOR UP TO THE MINUTE DX NEWS! AND THE MID-MONTH FLASHSHEET IS INDISPENSABLE TO THE DX'er. MEMBERS CAN RECEIVE IT FOR \$2 YEARLY FIRST CLASS IN NA, or \$2.36 AIRMAIL IN NA. OVERSEAS \$3 per YEAR AIRMAIL. ORDER THRU HEADQUARTERS.

- 4902 SRI LANKA Colombo Sinhala svc, pol speech 1435, separable from RRI-4900 (Padula-Pac)
- 4905^{1/2} CHAD Ft Lamy moving up here from 4904^{1/2} some days, FF anmts, mx 2145 (Heutte)
- 4905 BRASIL R Relogio time checks from Observatorio Nacional each minute, interspersed with ads; same format as La Hora Exacta 9555, except in PP (Calkin-Eu)
- 4905 COLOMBIA Em Atlantico mixing with R Relogio at 0000, N:5 (Heutte)
- 4910 DOMINICAN REP R HIN 0430 SS ID, EE ID, 0502* w/NA G (Ball)
- 4910 GUINEA LV de la Révolution on nominal now; FF tx, mx 0730-0750 fade (Reeves)
- 4915 BRASIL Rdif Macapá 0850-0901 PP 7-20 VG IA mx (Tuchscherer)
- 4915 COLOMBIA R Guatapurí 0130 SS 7-12 IDs studio drama px 444 (Cwikla)
- 4915 GHANA RG 0550 Afro chorus mx, ID by M EE 0600 G (Wallace) 0555 8-5 YL talk with mx, drum IS @ 0614 into lang F 343 (Hardester) 0600 N:E, ID 0608 VG //3350 PP 7-17 (Surlew) 0604 7-24 EE OM tlk re food, CM ID, 22122 P (Eichenhorn) 2259 Lang 7-23 children singing rel hymns, man talking F (Miller) 2300 N:E best on band (Heutte)
- 4915 KENYA VOK 0315-0320 7-30 Swahili tlk by OM, local mx F (Mayer)
- 4920 AUSTRALIA VLM4-Brisbane 0710 drama px (Reeves) 1100 ABC N:E F (Ball) 1200-1300 EE 7-16 nx mx wx 333 (Nebron)
- 4920 HONDURAS R Progreso 0120 SS 7-19 ID ads fast LA mx F (Miller) 0238 SS mx IDs F (Stephens) 0400 SS F (McCall) Club Juvenil ad, 0405 ID R Progreso, la voz de un pueblo en marcha (Calkin-Eu) 1005 SS 7-27 LA mx, tlk, ID E (Perdue) 2230 SS 8-1 LA pop mx, nx, programa de comentario y canciones 633 (King)
- 4925 BRASIL R Industrial, Juiz de Fora, 0145-0215 8-20 PP anmts, light mx, ads, N:P 0200-0215, #76 Trombones" theme, complete ID, G w/QRM R Progreso (Heutte)
- 4926 EQ GUINEA R Bata late occasionally, blocked until 2200 by LM B px 4925; noted with SS political speeches around 2200-2300 (Padula-Pac)
- 4930 DOMINICAN REP R Mil 0325 SS mx, many IDs, CW QRM 8-7 (M.Peters)
- 4932 INDONESIA RRI-Surakarta 1231 Love Ambon, dual 5047 5054, YL ID, TC 1233 (Robinson)
- 4935 BRASIL R Poti 2305-2330 Brazilian mx, US pops, loud but RTT'd (Reeves) 0100 N:P, anmts, ads, ID (Heutte)
- 4937 ANGOLA R Clube do Lobito 2155 piano mx, PP anmts F (Heutte)
- 4940 IVORY COAST RTI 2335 lang 7-19 Afro mx & tlk F (Miller) 2340 FF 7-17 pops & anmts 343 (Ronda)
- 4940 VENEZUELA R Yaracuy 0257 SS 7-31 LA mx 444 (Cwikla)
- 4945 COLOMBIA R Colosal 0508 SS mx, talk (Yamron)
- 4950 SARAWAK RMS EE rel talk by M, commercial 1129, ID, Mx & Songs for the Family (Robinson)
- 4955 COLOMBIA R Nac 0039 SS talk, piano mx F (Stephens) 0330 classical mx, 0410* w/full ID NA G (Ball) t 0715 7-25 SS, LA mx, nx, E (Dolyak)
- 4955 INDONESIA RRI-Banda Aceh 1455 II vocals, local ID 1459, Jakarta nx; CW QRM 7-27 (Padula)
- 4955 VENEZUELA R Sucre 0130 SS Rumbos jet nx E (Heutte)
- 4965 COLOMBIA R Santa Fé 0157 SS commercials, nx, IDs P (Stephens) 0507 SS mx, IDs (Yamron) 0700 IA mx, SS, frequent IDs, TCs G (Ball) 2330 SS 7-23 classical mx, frequent IDs, nx 343 (King)
- 4965 SOUTH AFRICA R South Africa N:E 2200 VG (Heutte)
- 4965 ZAMBIA Lusaka 2015 EE, 2025 ID, talk re African Congress, ID as You are tuned to the External Service of R Zambia; QSL in 11 days (Martin-Eu)
- 4966 ANGOLA R Clube de Malanje 2300* w/AP, FF, some days not active (Heutte)
- 4970 SABAH RMS 1133 OM talk, YL ID 1139, mx 1140, three IDs 1145-1146, This is R Malaysia Kota Kinabulu (Robinson)
- 4970 VENEZUELA R Rumbos 0215 SS 7-11 mx, IDs 333 (Ronda) 0231 SS mx, anmts, IDs G (Stephens) 0505 SS mx, NA at 0505* (Yamron)
- 4972^{1/2} CAMEROUN R Yaoundé 2215 African mx, FF and dialects E (Heutte)
- 4975 BRASIL Unid 0245-0301* PP vocals, talks 7-30 G (Reeves)
- 4980 GHANA RG 2300 N:E G mix with Ecos del Torbes (Heutte)
- 4980 VENEZUELA Ecos del Torbes 0130 SS 7-22 IDs in SS EE, LA mx, nx 323 (King) 0153 SS G (McCall) 0210 SS 7-12 political talk 444 (Ronda) 0300 SS mx G (Yamron)
- 4985 ANGOLA R Eclesia 0520-0550 soft mx, PP ID 0534 G (Reeves)
- 4990 VENEZUELA R Barquisimeto 0025 SS 7-10 mx, IDs 333 (Ronda)
- 4990 NIGERIA NBC-Shagunle 0500 N:E F (Heutte)
- 4993v BRASIL Believe R Brasília Central in lower power to save CRUZEIROS (\$ to you!), down in frequency to avoid R Andina, #0300-0800*, low level, undermodulated (Heutte, Reeves) We've been following this one for three months and agree it's screwy enough to be so.
- 4995 BRASIL R Brasília Central E #0800, 2300-0310 (Reeves) 0022 PP 7-28 ID, Brazilian pop mx, FG (Miller) 0050-0120 PP OM, mx (Smith) 0205 PP 7-12 talks 222 (Ronda)
- 4995 Unid 0545-0600* SS, perhaps R Andina, Andean mx, weak (Martin-Eu)
- 5010 CAMEROUN R Garoua almost nightly; IS 0456, #0500 with FF ID, NA, AA-like chant (Perry)
- 5010 DOMINICAN REP R Cristal reactivated but irregular, 7-17 0300, over Eco (Reeves) No sign of either R Cristal or R Eco 0130-0300 8-20 (Heutte)
- 5010 PERU R Eco 0207-0223 SS 7-12 ads, instrumental mx, vocals, W (Barto) 1000 E easy IDs, Andean mx, also some evenings 0400-0500* (Perry) 0915-0930 SS 7-27, R Cristal no estaba aqui, exc LA opening, Andean mx, TCs, many IDs, ads, VG; Cristal on 0945 (Perdue)
- 5010 SINGAPORE RS 1400 CC orchestral mx, M&W ancrs, F w/poor cdx, noisy (Martin-Eu)
- 5015 ANGOLA R Clube Moçambédes 0553 carrier, 0558 IS, instrumental AP & CR6 NA, #0601 PP ID, pops to 0630, then possible N:P, 0650 fade; 0600 G, 0640 P; 7-27, 7-31 (Reeves) Fine!
- 5015 BRASIL Pogos de Caldas 0840-0900, also 2315 under Grenada (Reeves) 2300 N:P F (Heutte)
- 5015 WINDWARD ISLANDS RG 2350 EE 7-27 economic talk, drums, 0000* PP (Miller) 0000 EE 7-16 ID 333 (Ronda) *You almost didn't get an August 2nd quarter; sent to 85421 (Heutte)
- 8452 NASWA HQ box number; double check it to make sure I didn't; consternation at HQ!

- 5017v BOLIVIA R Universo different pgm, frequency and strength each day, 7-17 0315-0500, 7-29 to 0413* w/IS, also other days; Andean mx, LA mx, SS political talks (Reeves)
- 5017 ECUADOR R Nacional 0409-0425* SS 8-1 LA mx, NA (Tuchscherer) Ex-4940, new stn, or what?
- 5018 ECUADOR R Centinela del Sur ex-5023, 0350-0400*, pleasant Ecuadorian folk songs, off abruptly with no anthem (Perry) Latin pops, 7-31 0330-0423*, off with frequencies, two TCs, himno nacional de la republica del Ecuador; 8-3 0359*, no NA; 8-7 0315* (Reeves)
- 5020 VENEZUELA R Mac 0445 LA mx, SS ID by M, 0500* NA G (Wallace)
- 5025 PERU R Quillabamba 0200-0210 SS 7-12 Andean mx, instrumental mx, several IDs G (Barto)
- 5027v BRASIL V de São Francisco 0805 7-27 G, sudden off 0809, back 0816; 0000-0100 (Reeves)
- 5030 VENEZUELA R Continente 0015 SS 7-16 mx, talks, IDs 333 (Ronda) 0920-0931 SS 7-20 LA mx, IDs E (Tuchscherer)
- 5033 ANGOLA R Clube Cabinda with light and orchestral mx, PP, ID & AP 2259* (Heutte)
- 5034 BRASIL R Anhanguera EE pops to 0359*, PP OM ID, freq., NA 7-31, 806 (Reeves) 5035 0038-0101 PP 7-17 US pops, boletims, resumes (Tuchscherer)
- 5034 CENTRAL AFRICAN REP Bangui 2230 FF amts, African mx G (Heutte)
- 5035 COLOMBIA LV de Caquetá 1010-1045 SS 8-7 mx, ID, TC G (Lohe)
- 5039 SUDAN Ondurman 0330-0415 E 7-19 (Reeves) 0500 AA chants (Wallace)
- 5040 BURMA BBS-Rangoon 7-29 1100-1200; sound of racing cars 1125-1135 (Reeves) AJ Foyt DXes?
- 5040 PERU R Libertad de Junín 0445-0500 SS 8-3 Andean mx, IDs (Tuchscherer) 0510-0530 ranchera, Andean mx, often E (Perry) 0606 Indian mx, SS IDs (Megyesy)
- 5045 BOLIVIA LV del Altiplano reactivated 0130-0300 SS mx, amts, IDs (Heutte) Andean, classical mx, M&W 0300-0600 7-23 7-25 7-30 7-31 8-3 E (Reeves) 0330-0400 mentions of Bolivia, orchestral mx, pops (Perry) 0910-1010 SS 7-25 also Indian dialects, Andean mx, IDs, ads FG (Lohe)
- 5047 INDONESIA RRI-Yogyakarta 1132 7-30 W N:E, mx from 1137, going by 1155 (Tuchscherer)
- 5047 TOGO Lomé 0553 7-16 in lang, African mx 33333 F (Eichenhorn)
- 5050 VENEZUELA R Mundial 0010 SS 7-16 mx, CW QRM 222 (Ronda) SS mx, TCs 0130 E (Heutte)
- 5055 INDONESIA RRI-Ujung Padang 1013 II tx, ID after flute IS 1015, 1110 chant (Robinson)
- 5060 ANGOLA R Clube do Huambo on weekends 2145-2300* with PP sports, light mx, amts, NA 7-7, 8-18 (Heutte, Padula-Pac) Dual 3345; may run late some weekdays; usually 2200*
- 5060 YEMEN FR Aden local mx 2120, talk, possible N:A 2130 (Martin-Eu) AA chants, talks, ID and possibly NA at 2159*, but increasing RTTY (Heutte)
- 5065 GERMAN FEDERAL REP VOA-Munich *1700 Romanian with EE ID F (Wootten-Afr) Sure abt freq?
- 5075 COLOMBIA R Sutatenza 0140 SS G (McCall)
- 5095 COLOMBIA 0120 R Sutatenza 7-10 talk, not dual 5075 444 (Ronda) 0200 SS talk, nx G (Stephens) 0300 N:S dual 5075 at "this point in time" (Heutte) Ha!
- 5873 HONDURAS LV de Honduras SS mx, ID 0200, QRM F (GLDXA) SS talk, bits of LA mx, het to 0400, then clear, ID 0401 7-28 G (Burlew) GLDXA? WDX9HDB? FH
- 5930 CZECHOSLOVAKIA R Prague *0100 EE ID, nx G (Schwartz) *0300-0315 EE 7-5 M Topics of the Day, IS, ID, amts P (Fino)
- 5935 USSR R Majak 0310 PF w/utility QRM; is QTH Riga at this hour? (Perry)
- 5945 ALBANIA R Tirana ending Czech 2130, then Polish; no sign of "Minsk" pgm (Padula-Pac)
- 5955 GUATEMALA TGNA dual 3300 0305 EE rel pgm (Yamron) 0340 EE 7-31 rel talk, ID 0345, rel mx G (Whaley) 0400 EE rel pgm P (Ball)
- 5960 CANADA RCI Northern Svc 0615 EE FF 7-26 nx, pop mx G (Dolyak)
- 5970 DOMINICAN REP RTVD 0420 SS nice mx, VOA QRM; QSL & pennant in 23 days (Martin-Eu)
- 5970 PERU R El Sol 0500 8-8 SS nx 343 (Marshall) 0525 SS 8-5 OM & YL talk, instrumental mx, several IDs 343 F (Hardester) 1035-1050 SS 7-17 Peruvian mx, amts, TCs F (Lohe) 1046-1110 SS 7-27 Peruvian mx, talk, ID E (Perdue)
- 5980 EL SALVADOR R Nac ex-6010 0130 N:S, amts, mx (Heutte) 0435 SS 8-5 definite ID (Brock) Mx & ID to 0450* w/NA (Behr) 1220 ES 7-22 variety of American & LA mx, ID F (Miller)
- 5980 SABAH RMS-Kota Kinabulu N:E relay from Kuala Lumpur E, usually weak here (Padula-Pac)
- 5985 NEW BRITAIN R Rabaul daytime svc hrd 0315 with Pidgin nx 6-27; on holiday in Mackay, Queensland; never heard at home in Melbourne; scheduled 5985 0200-0400 (Rabaul px) 0400-0530 (ABC px); 3385 2000-2200, 0600-1300 (Padula-Pac) Tnx fine info, Bobi FH
- 5985 TANZANIA Dar-es-Salaam 0325 African chorals F, splatter from 5995 (Perry)
- 5987 INDONESIA RRI-Menado 0920 request pgm with mx G (Robinson)
- 5993 SAUDI ARABIA Riyadh 3-8 (Aug 3) Koran chants 2255-2300* NA (Padula-Pac)
- 5095 AUSTRALIA RA 1020 EE cmtry on \$ 33333 F (Eichenhorn) 1130 EE stock report PF not dual 9580 (Brock) 1100 7-28 nx, talk, pop mx F; 1145 7-29 mailbag, DXers Calling, pop mx E; 1130 7-30 world of mx, nx E; 1145 7-31 world of mx, nx G (Dolyak)
- 5995 MALI R Mali 2330-0000* FF 7-31 African style mx 443 (Zilmer) 2345-0000* FF 7-15 African mx, ID before s/off 333 (Wiklia) 2355-3358 between DW-RTE s/off and Vatican s/on with African mx, FF amts 7-21 (Padula)
- 5995 USA VOA 0210-0225 EE 7-31 Breakfast Show, N:E, cmtry, M&W G (Fino)
- 6000 AUSTRIA ORF-Aldrans *1800 with classical mx, ID, nx, talk in GG (Calkin-Eu)
- 6000 SOUTH AFRICA R RSA 2232 EE 8-3 His & Hers show, jazz mx, talk F (Miller) 2330-0245* pgm to NA this time slot ex-11970 433 8-4 (Zilmer)
- 6005 CANADA CFCX EE pops, 2224 wxcast E (Burlew)
- 6005 ENGLAND BBC N:E 7-28 F (Burlew)
- 6005 GERMAN FEDERAL REPUBLIC RIAS 0430 GG 7-18 nx under QRM F (Lohe)
- 6005 PAKISTAN Karachi *2345 with World Svc to SEA, into Urdu, N:E 0000; seems ex-6170; dual 9778 also hrd 7-21; first time hrd 49-meter outlet this time period! (Padula-Pac)
- 6006 COSTA RICA R Relej 1030 SS 7-27 dance mx G (Dolyak)
- 6015 ENGLAND R Canada-Daventry 0914 7-3 EE M&W poem 32222 P (Eichenhorn)
- 6020 PERU R Victoria 1020-1035 SS 7-17 mx, ID, Campesino Revolucionario pgm F (Lohe)

- 6020 Cf July LR: LV de Colombia unlikely as has been inactive several years; 2305 s/off indicates rather Emgu-6025 (Behr)
- 6025 PORTUGAL Lisbon Q205-Q240 EE 7-4 mx, talk about collaboration, mx, anmts, IS G (Fino)
- 6030 GERMAN FEDERAL REP SDR-Stuttgart 0435 GG 7-18 nx, mx, TC, M&W, some QRM (Lohe)
- 6035 SOUTH AFRICA R RSA NF 2310 EE 7-23 mx, s/off 2315, IS (Miller) 2330-0245* EE 8-4 pgm to NA ex-6085, //6000 9695 9585 443 (Zilmer) 0130-0145 EE 7-30 world nx, political talk (Tuchscherer) Still searching for good frequencies, like everyone! FH
- 6040 BOUGAINVILLE Milne Bay reported here not noted during Queensland holiday tunings 2000-2200; perhaps only for special broadcasts, or just on drawing board (Padula-Pac)
- 6040 COLUMBIA LV del Tolima 0000 SS 8-4 mx, talks, ads, jingles, nx 433 (Zilmer)
- 6040 GERMAN FEDERAL REP DW 0230-0255* EE 7-31 M&W talk, mx, GG lessons, anmts, ID G (Fino)
- 6045 PERU R Santa Rosa 0321-0340 acoustic guitar melodies, 0330 ID, QRM: F (Perry)
- 6055 RWANDA Rdf of la Rep Rwandaise f/in 2035, local & US mx to 2100, then ID, anthem, cycle tone to 2102* P 7-27 (Burlaw)
- 6055 USA VOA 0630 EE 7-27 Jazz mx, Stephen Foster melodies E (Dolyak)
- 6055 URUGUAY LV de Melo 0930-0941 SS 6-22 TCs, instrumental mx, IDs, G (Barto) (Padula-Pac)
- 6060 ITALY RAI HS from Rome, Notturno pgm 2325, into FF nx 2330 7-21 (9:30 a.m. local)/
- 6062 THAILAND Ministry of Education 1110 Thai nx, vocals 1120 7-30 (Padula-Pac)
- 6065 SPAIN RNE 0210-0225 EE 7-27 M&W, Spanish songs, anmts, ID, talk about Atlantis G (Fino) 0300 7-10 EE OM ID, nx, 54444 VG (Eichenhorn) 0315 EE 7-17 Spain Today (Ronda)
- 6066 COLOMBIA R Super 0732 LA mx, SS ID by man G (Wallace) 0900 SS talks F (Megyesy)
- 6070 CANADA CFRX 0413 mx, mx P (Jeffrey)
- 6070 INDONESIA RRI-Jayapura 0845 pop mx, chants 0840, 7 gongs 0900, N:I, ID GE (Robinson)
- 6070 THAILAND NBS-Bangkok Thai cmtry ll35, QRM RRI-Jayapura 7-30 (Padula-Pac)
- 6075 COLOMBIA R Sutatenza 0425 soccer, frequent IDs 7-8 (Burlaw) 0350 SS talk PF(Brock)
- 6075 GERMAN FEDERAL REP DW 0100-0109* GG to LA, nx, ID G (Schwartz) 0225 7-10 EE OM, nx, cmtry 54444 G (Eichenhorn)
- 6076 HONDURAS LV del Junco 1055 SS 7-17 IDs, ads, QRM R Sutatenza (Lohe)
- 6080 NEW ZEALAND RNZ 0625 ID, LM 7-26 FG (Burlaw)
- 6085 ZAIRE Kisangani late 7-13 2300-2390 fade, African vocals, FF anmts, first time heard as normal 2000* far too early for propagation here (Padula-Pac)
- 6085 BRASIL R Jornal do Comercio 0055 PP 7-28 local mx (Zilmer)
- 6085 GERMAN FEDERAL REPUBLIC DW 0245 GG cmtry on Papadopolous regime in Greece (Schwartz)
- 6086 COLOMBIA Ondas del Darien 0515-0610 SS 7-19 Buenos Dias Suraba G (Lohe)
- 6090 AUSTRALIA VLI6 0840 rel pgm, ID by M F (Wallace)
- 6090 LUXEMBOURG RLI 0000 EE 7-17 Daily Mirror nx 333 (Ronda) 0010 EE rock, TCs, DJ 7-29 VG (Burlaw) 0131-0145 EE, 2323* GG, 0045-0110 GG FGE (Schwartz)
- 6095 BRASIL R Tupi 0045 PP 7-28 talk 443 (Zilmer) 0225-0235 7-27 nx until 0230, ID, PP talk 0232, 18gt mx F (Mayer)
- 6100 NIGERIA NBC-Maidugari 2245 local chanting, EE ID, talk by W 2300, QRM VP (Burlaw)
- 6100 VENEZUELA Observatorio Nac Cacigal 0630 pips 7-26 F (Burlaw) 0630 QRM P (GLDXA) 0830 some QRM F (Wallace)
- 6105 COLOMBIA R Visión 1028 SS songs, ID F (Megyesy)
- 6115 MEXICO R Univ de Sonora 1645-1730 SS 8-1 talk, Mexican mx 433 (Nebron)
- 6119 VENEZUELA R Canaima 1010 SS 7-25 Noticias Rumbos and local ads G (Lohe) Right ID?
- 6120 PHILIPPINES FEBC quite strong 2315 CC dialects 7-4 (Padula-Pac)
- 6120 SWITZERLAND SBC 0158 EE 7-10 nx, press review 444(Ronda) 0345-0400 Italian 7-25 talk by M, ID, some mx PF (Fino)
- 6120 VENEZUELA R Angostura 0915-0930 Nova margarina ad, ID: R Angostura, la primera emisora en la ciudad Bolívar, Estado Bolívar, transmitiendo nacionalmente (Perry)
- 6125 COLOMBIA R Continental 0520 slow ID in SS, then mx, mix VOA 7-25 F (Burlaw) 0730 SS mx, IDs G (GLDXA) 0725 SS 8-5 ads, TC, La Hora Colombiana, TODELAR; ID: R Continental, la primera en TODELAR; 1110 7-17 mx, talk, pops, QRM Suyapa (Lohe) 2330 pops and tangoes, QRM RBI (Martin-Eu)
- 6130 CANADA CHNX 0512 7-13 EE OM singing, 22222 P (Eichenhorn) 1134 7-22 DJ show, wx, TC, mx F (Miller) 2225 EE ID, rock mx 7-28 E (Burlaw) 2300 mx, ads, IDs G (Ball)
- 6130 USA VOA 0020-0100 EE 7-4 W talk, pop mx, anmts, ID F (Fino)
- 6140 AUSTRALIA VLR6 longpath 2345-0000 7-31, 8-1 with nx, IDs, TCs F (Mayer) FB Alexi FH
- 6140 COLOMBIA R El Sol with IDs, TCs between records (Perry) 6142 SS M ancr, mx 0500, frequent IDs 7-25 G (Burlaw)
- 6140 NEW GUINEA R Wewak daytime svc 6-27, noted on holiday in Queensland; national chants and vernacs 0300-0400; same mtr as used morning/evening 3355; believed first reception of this outlet, signal never makes it to Melbourne further south (Padula)
- 6150 AUSTRALIA VLR6 1135 EE 7-28 American MoR mx PF (Miller)
- 6155 AUSTRIA ORF 0250-0305 GG ID, nx, mx F (Schwartz) 0345-0355* EE classical mx, Blue Danube IS 353 F (Hardester) Nice going, Mike; not too easy WCNA. FH
- 6160 COLOMBIA Emisora Nueva Granada 0445 SS coverage of sporting event 7-29 G (Burlaw) 0430 SS IDs, mx (Megyesy)
- 6160 CANADA CKZU 2130 mx, nx, EE sports P (Jeffrey)
- 6160 VENEZUELA R Canaima 0940-1005 many mentions of San Felix, IDs, TCs between records, meringues venezolanas, network nx 1001, listing all stations in net (Perry)
- 6165 MEXICO LV de la América Latina 0524-0552 SS 7-18, 7-19 nx pgm, then 0550 SBC sign on wiped them out G (Lohe)
- 6170 FRENCH GUIANA ORTF-Cayenne 0940 7-3 FF 22222 P (Eichenhorn)
- 6175 BRASIL R Guarani 0450 PP 7-16 late with mx, TC G (Lohe)
- 6175 MALAYSIA RM 1125 II 7-29 vocal mx, anmts in II 333 (Ronda)

- 6180 CYPRUS BBC-Limassol *1700 IS, local relay ID, EE WS (Galkin-Fu)
 6185 ETHIOPIA R Ethiopia 0335-0345 7-30 chanting F (Mayer)
 6190 MOROCCO Rdif Television Marocaine 0535-0600 North African mx, then pips, ID in AA 7027 G (Burlaw)
 6190 USA WOA-Greenville 0310-0330* SS 7-24 ID, talk about workers, anmts VG (Fino)
 6195 TUNISIA RTV-Tunisienne 2315-2355 AA 7-12 mx, few talks 222 (Cwikla) t 0645-0700* AA talk by M, North African mx, ID, extended sked? F (Wallace)
 6198 Unid LA, perhaps same as Bill Sparks' (et al) after 0400, Banco ads, thought heard mention of del Perú, no BBC or Springbok 8-8 (Perry)

And so we close up shop for another month. In the end, overwhelming response to the proposal of omitting the country name for each item was against, so they are reinstated this month. Dan Ferguson makes it a moot point, moreover, with the extra space available on each page. This month's experiment abandons my usual style of editing, in favor of one submitted by Glenn Hauser back in May to all the editors. On my part it involves little more than recopying verbatim what the reporters have submitted; there is little editing of the sort I am accustomed to. What do you think of this system as opposed to the former? (Funny how those typos which keep showing up resemble Afrikaans!)

This is being most uncomfortably typed at our vacation QTH in the Eastern Townships of Quebec. Not too much DX activity here the first half of the month, with very noisy band conditions. In recent days, though, the lowest solar flux numbers I've ever heard (in the low 70s) have produced some fine African DX on 60 and 90 meters in the afternoon, as well as unusually strong Latin American conditions.

A reminder-double check your mail to Headquarters; ye ed. sent the August 60-49 meter Log Report to Box 8542 (should be 8452) with the result of great consternation in South Charleston and Washington! More reminders: now is the time to upgrade your receiving and antenna equipment. This winter is shaping up as one of the best low-band DX seasons yet. Those who have been keeping track of Bob Padula's longpath reception see what is in store for us, barring another propagation disaster like the one we've had since last January. 73-Fred Heutte, Jr. WA3QIA/YDX3FH 1600 Newton Street, N.E. Washington, D.C. 20018.

AN EXAMINATION FOR DXERS

PRODUCED BY:

NORTH AMERICAN SHORT WAVE ASSOCIATION

WRITTEN BY

EDWARD C. SHAW

DXers EXAMINATION - PART I

Name: _____

1. How does one compute the wave length of any given frequency?
2. What is the impedance of RG-58/U coaxial cable?
3. HCJB is also known by what name?
4. What kind of bird sings in RSA's interval signal?
5. Who is the editor of World Radio-TV Handbook?
6. How many hours difference are there between E.S.T. and G.M.T.?
7. How many languages are represented on the reverse of an I.R.C.?
8. What meter band would most likely be used for a South American SW station?
9. Who is the Executive Editor of NASWA's monthly bulletin, FRENDX?
10. What 31 meter frequency does ORF in Austria use?
11. Deutsche Welle QSL cards are of what basic color?
12. WWV broadcasts on how many different frequencies?

- 6220 Pirate, R Gemini w/replay of old R Caroline South tapes at 1004 tune, 7/15. Asked listeners to return to 6235 at 1030 (Calkin-Eu)
- 6240 R Libertacao; 0730-0800+ PP OM, YL (Smith) 2303* w/drums, Id, anthem(Calkin-Eu)
- 6250 Santa Isabel: 1930t/i ending news and into lite mx(Calkin-Eu)
- 6250 World Music Radio: begin Sat sked 7/7 at 1005t/i; formerly Sun only-0900-1500(Calkin)
- 6255t OEY21, 0322 GG splr w/ Franconian/Austrian accent, mentioned Ulbricht's death(Schwartz)
- 6275 R Freedom, Scotland 1020 on Sun, test, P (Martin-Eu)
- 6900 VoMeteorology, Turkey TT mx to brief anmt and s/off 1830(Calkin-Eu)
- 7095 Peking, 0915-1000 CC mx/tx, loud (Reeves)
- 7098 RRI-Yogyakarta 0950-1000* only 7/29, chants to 0958 then OM, low level, het(Reeves)
- 7100 Petropavlovsk, Kamchatka RM CC t/i 1400-1600*, *1700-2030* Hajak (Davis)
- 7100 UNID EE Back to The Bible 0656-0704f/o, Lakeland R?(Barto)Surely not Petro, hi!-DP
- 7102n TWR, Monte Carlo *0625 EE, ex-7293(Padula-Oc)
- 7102 Hanoi right in the noise at 1159 w/VV ID, IS (Heutte)
- 7105 RNE, Spain 2100 SS, CW QRM (Brock)
- 7108 Thai TV, Thailand, Sad oriental chants 1030-1250, CW QRM (Reeves)
- 7125n RM CC svce, (Asian xmtr) t/i 1400-1900+ f/o; //7100 until 1600 (Davis)
- 7125.5 LV du rev, Guinea 0505-0532 hi-life mx, 0532 FF ID (Burlew)
- 7130 BCC, Taiwan CC mx, tx 0915, into KK 0950 (Reeves) (Robinson)
- 7139 RRI-Ambon 0915-1000 very loud, pop mx(Reeves) 1025-1045 mailbag, mention Ambon/
- 7165 ETLF EE tx 0315, GG (Heutte)
- 7170 VOA Kavala *0300 EE ID, G (McCall)
- 7178v VTVN, Vietnam 0945-1045 VV chants, tx, het (Reeves)
- 7205n BBC EMR, Cyprus *0000 into EE WS, 0030* ex-7205(Padula-Oc)
- 7205n R Nderland, Malagasy Rep *0030 into EE for SEA, ex-11730(Padula-Oc)
- 7208 Senegal 0700-0804v* FF tx, mx, not //4890 (Hardester,Reeves,Peters)
- 7210 ICRC, Switzerland July 22 *1700 after IS, into EE (Calkin-Eu)2310 EE July 27(Padula)
- 7220n Soviet Asian-RM CC svce 1400 t/i-2000+f/o; separate from 7100/7125, much stronger& better sound quality-probably a frequency change for the station on 7185 for the past few years which is no longer being hrd(Davis) (Padula)
- 7220 Algeria 2355-0000*, late reception for this QTH, freq usually blocked by jammers/
- 7235 NIGERIA-ECSBS EE ID, freqs 0500, then vernacular tx by man (Burlew)
- 7235 R Australia-Shepparton EE mx to SEA 1705 t/i (Calkin-Eu)
- 7245 Angola, Emissora Oficial 2330-0000* w/ A Portuguesa(Brock, Smith,Mayer)
- 7245 VTVN, S Vietnam 0945-1045 VV tx, chants, G, (Reeves)
- 7250 Vatican Radio 2100 EE, F (Brock)
- 7255 VoNigeria ending EE nx at 0610, G, het(Burlew)
- 7260 E Germany Stimme der DDR 0130-0215 GG mx, mx, F (Schwartz)0320-0335 GG lite mx, nx at 0330 (Lohe) RRI 2358 EE nx, P (Brock)
- 7265 Sudwestfunk, W Germany 0510-0845 carries AN svce joined by all GG radio stations, but produced by a different station each nite(Lohe)
- 7269 RRI-Jakarta loud w/ chants 1015-1130, seems//6045(Reeves)
- 7270t RMalaysia, Sarawak 1030 much RRI mess, unlist(Reeves)
- 7300 R Libertacao 2230 PP tx (Heutte)0710 PP tx, W Afr mx (Wallace)
- 7310 Asian USSR HS w/ ID 1000 into RR tx 31 July NF this service (Padula-Oc)
- 7650 VOA feeder(50 kw Greenville to Munich) 0004 EE; sorry OM, lost your name
- 7772 VOA unlist feeder 0315-0340 EE breakfast club, pop mx, LSB. " " "
- 9022 Iran EE 2010-2026, then IS, 2029 into Parsi, G (Schwartz)
- 9375 Khabarovsk, USSR apparently have new xmtr working- *1800-1700*, now the strongest Soviet on 31 meters, all Hajak (Davis)
- 9380 R Peking RR *1700-1755*, P, badly jammed (Davis)
- 9455v Pyongvang, N Korea 0900 SS, 1000EE, //1207lv, new sked (Behr,Hardester)
- 9510 RRI-Ujung Pandang II songs, anmts 0735-0830*, apparently ex-9550 but never heard there; this freq is widely hd in Aust/NZ region (Padula-Oc)
- 9515 Ankara, Turkey s/on ib now 0300, no longer 0400 (Padula-Oc)
- 9520 R Denmark Danish to NA 0200-0245, QRM, seldom hrd Aust(Padula, Behr)
- 9520 R La Cronica, Peru 0000-0245 SS tx, ads, sports(Zilmer,Tuchscherer,Lohe,Leonhardt) hrd at 'impossible' hour of 1706 (Reeves)
- 9525 R Japan CC 1400-1515*, //11780,11840 (Behr)
- 9525n BBC EMR Hindi 0100, NF ex 7250 (Padula-Oc)
- 9530 RNE Spain, SS to SS Seamen 0145, very potent //11775,15145,9360, not // 9630 (Padula)
- 9545 Solomon Islands, SIBS noted on a Sunday 0110-0125 when Cologne not on freq; 1st time on this new frequency, W and fading badly, typical of 'E' propagation mode (Padula)
- 9550 Finland 2030 EE nx, G (Wootten)
- 9555 R Nderland, Malagasy 1945-1950* EE, P (Leonhardt)
- 9555 ELA Liberia 1815-1915 FF, 1915-1945* vernacular (Heutte,Ronda,Reeves,Leonhardt)
- 9560 R Japan poor under Moscow w/00S 1700-1715* f/o (Heutte)
- 9575 VOA, QTH unknown, NF, 2150-2210t/o FF, US pops, 2200 nx (Tuchscherer)
- 9577 VoPhilippines F at 1600-1900 EE to 'NA', f/o 1900 when 'Eu' svce began (Heutte)
- 9585 Damascus,Syria 0325 'Call to Prayer' f/o 0425 (Padula-Oc)
- 9596 R Mar, Nicaragua 1715-1900 w/ ultra-hard rock, into big band mx (Reeves)
- 9600 R Universidad, Mexico 1200-1500 SS, educationally oriented format(many!)
- 9601 Tunisia fair w/ AA chants 2235, QRM (Heutte)
- 9605n Japan, RJ 1030 PP, 1100-1130 SS, //9530,11780 (Behr)

9618 RCH, Mozambique 1305-1340 t/o, US pops, local mx (?????)
 9620n RDI, E Germany 2315 PP, 00003S (Behr)
 9625 R Atlantida, Peru low level w/SS 1725-1845 f/o (Reeves)
 9630 RND, Spain *2200 w/IS(new!), also *0000, new IS is only 10 min long(Brock,Marshall)
 9635 BEC, England "European Service" 1900 European lang, P-G(Brock)
 9640 Volfope, Portugal 0505 EE on Sun, into unid lang 0515 (Harlester)
 9645 R Pocos de Caldas, Brazil 2230-2330 PP tx, ads, futebol 'Pre-game show'(Lohe,L-hart)
 9655 Damascus, Syria FF 1900, EE 1930 to past2030 (Brock, Calkin-Bu,Burlew)
 9660 R Rumbos, Venezuela *1000-to 2000+ (Nany)
 9670 Portugal: Secretaria de Estado da Informacao e Turismo (SEIT) Dutch 2200-2230-----
 IBRA Radio 1800 EE, 1830 RR-----R Trans Europe 1545-1600 when
 Volfope begins(Calkin-Bu)
 9675 R Del Pacifico, Peru 1117-1130 Andean mx, IDs (Barto)1745-1825 SS (Tuchscherer)
 9695 R Rio Mar, Brazil 'Lara' theme from Dr. Zhivago 1804, past 1930(Reeves)
 9695 Australia 1230 CC pgm, mx, ex-9690, //11945 (Behr)
 2708 Unid LA 0030 SS political speech, // 9750 R Minería; from 0104 station had own
 mx pgm---hrd 27 July only; perhaps R El Mundo but why relay Chile? (Behr)
 9725n BEC ER, Cyprus WS to SEA 0315 (Padula-Oc)
 9730 R Australia 2230 EE ID, into lang, earliest heard here in the summer(Perdue)
 9750 AIR Madras HS w/ "Variety Pgm", national lang 1025 (Padula-Oc)
 9755 VTUN S Vietnam 0005 VV armts, some western vocals, not usually heard here at this
 time; freq usually blocked by VOA Monrovia 22 July (Padula-Oc)
 9768 Zaire, LWDE 2205-2231 vernacular mx, no strain (Tuchscherer)
 9774 R Pakistan 0000 EE mx to SEA, //6005 also hrd, 22 July (Padula-Oc)
 9785 USSR R P+P 0010 EE mx (Miller)
 9810 Soviet Asia---HS now *2145-0800* (Davis)
 10111 R Espana Independiente 2100 SS tx, heavy jamming, 2100 ID, P (Brock)
 10260 R Peking---HS--- t/1415-1600* not // 11290 group (Davis)
 11350 Pyongyang *1950-past0705, usually quite weak (Davis)
 11496n Pyon'yang-buried under 15 layers of ute stations most mornings, *1300 CC-1355*,
 FF *1400-1455* (Davis)
 11500 R Free Russia 1930-1955* RR tx by man, woman, G (Smith)
 11620 AIR, India 2200 EE mx, 342 (Zilmer)
 11690 R P+P, USSR 0000 EE on Sat, //11745 UR, 12040 fair(Behr)
 *****That's all for this time 73's-DP-----

HDQ NOTES

*****Before you gripe, remember that griping automatically carries with it the clear implication that you are willing to assume editorial or other duties in the club.

*****Due to the late arrival of two sections(not the above LR section!), FRENDX for September is going to the mails several days later than earlier anticipated....This did, however, allow for including the information on Radio Free America(see page LR-4), and for a short note from...

THE POOR DX CLUE...I just arrived home from two days atop Poor Mountain, in Virginia, with Ed Shaw & Danny Jamison. We arrived atop the mountain about noon Sept 1, and after installing a number of antennas, including two 600 ft longwires, began tuning the bands. About 1945 we discovered a signal on 4788, playing pop music, usually with no armts between songs. Naturally Turk Island came to mind and we spent quite a while jokingly claiming it was VS18 on Turk Is. As the afternoon wore on and the signal became stronger we were able to get clear ID on the station and it was, in fact, VS18, Turk Island! WEAT A WAY TO START A EXPEDITION: With 5 receivers and plenty of good antennas, not to mention the 4060 ft altitude, we were able to pull in a fair amount of DX, but TURK IS at 1945 topped it all!

HELPING HAND It makes it easier(and faster) to get things in "Helping Hand" if they are submitted typed, 7 inches wide...

NEW QSL SIGNERS LIST will soon be available from Ed Shaw, 621 Bursleigh Ave, Norfolk, VA 23505. Cost is 50 cents postpaid in NA. "Soon" means it will be printed & shipped to Ed as soon as the September issue is taken care of. It will take a few days to get to him.

TECHNICAL SECTION We are hoping/expecting to add a technical section in the near future, covering equipment and such things as propagation prediction techniques, etc.

SHORTWAVE CENTER Editor Al Sizer notes that, due to increased responsibilities in other areas, he will be unable to handle the SHORTWAVE CENTER after the October issue. In addition, there are often times when we need back-up editors. Direct your letters volunteering for such posts to Dan Ferguson at HDQ.

GIVE A FRIEND A FRENDX/NASWA MEMBERSHIP FOR CHRISTMAS! GIFT MEMBERSHIPS GO FOR THE SAME SPECIAL RATE(!) AS REGULAR MEMBERSHIPS - \$10 FIRST CLASS, \$11 AIRMAIL IN NA.

- 11700 GERMANY (DR) REI 1435 CC, YW & OM read items, F-G (Miller)
 11705 ISRAEL IDA 0500 EE, TC, nx by W, F (Whaley); 2245* FF, t/k, s/off w/anthem, F (D'Angelo)
 11705 SWEDEN RS 0200, 0330 EE, into PP 0210, ID, nx, F-G (Zilmer, Eichenhorn)
 11710 NEW CALEDONIA ORTF Noumea 0515-0710 FF, drama, EE & FF pops, F-G (Robinson, Burlew, Marshall)
 11710 ARGENTINA RAE 2300-2330 EE, nx, t/k, F (Nebron)
 11713-5 INDONESIA RRI 0804 CC, 0830 Malay, 0900 EE, 1000-1300 chants, lang. t/k, QRM de Australia, sometimes E (Robinson, Reeves)
 11715NF BELGIUM RTB 2300 EE, Belgium Speaking px, ex 15235 1st?, G (Muhlhaupt)
 11715 ALGERIA RTVA 0635, 2200, 2315-2359*, AA, chants, t/ks, mx, P-G (Eichenhorn, Yamron, Stephens, McCall)
 11715 SWITZERLAND SBC 0436-0500 EE, nx, t/k show, (Bettenhausen)
 11720 USSR RM 0110-0200 EE, ID, IS, pops, propaganda, M&W ann, //11770, G (Fino)
 11730 NETH ANT RN 0200 EE, His & Her px, spec 500 broadcast, E (Dolyak)
 11730 HOLLAND RN 1904 EE, Happy Station px, F-G (Miller)
 11740 VATICAN VR 1444 PP, ID, s/off by YW, F-F (Miller)
 11740 USSR R Vilnius 2230-2300 EE, (Smith)
 11740 USA OAS via Bethany *2345-0130 EE s/on, nx, then SS, FF, & PP, //9640 & 15160, both Greenville, G (D'Angelo)
 11740c TANZANIA RT 0412 AA or Swahili, heard Tanzania twice in ID at 0415, gone 0420, new freq., P (Wallace). See next item-ed.
 11740 UNID LOC BBC 0400 AA, //11680, 9825, (Behr). England and Ascension listed-ed.
 11745 ECUADOR HCJB 0305 EE, DX party line, E (Eichenhorn)
 11750 NEW ZEALAND RNZ 1430-1500 EE, sports, (Bettenhausen)
 11760 CUBA RHC 0520 EE, anti-american prop, G (Marshall)
 11770 MEXICO R MEX 1319 SS, lovely Mexican mx, F-G (Miller)
 11775 SPAIN RNE 1955 SS, IS, ID at 2003, anthem, amnts, mx, G (Whaley)
 11775 ROMANIA RE 1940-1950 EE, nx abt. Romania, t/k by YW, mx, P-F (Eichenhorn, Miller)
 11780 ARGENTINA R Belgrano 0140 SS, sports event, G (Mayer)
 11785 AUSTRALIA RA 1410 EE, World of Mx px, (Bettenhausen)
 11790 LEBANON RL *0230-0302 EE, ID, nx, spotlight px, AA mx, t/k, into SS at 0301, M&W ann, P-E (many)
 11790 SWEDEN RS 1830 EE, nx, Panorama to ME, //15240, F (Zilmer)
 11795c ZAIRE Lvd Zaire 0540, OM in FF, P (GLDXA)
 11795 GERMANY (FR) DW *2140 PP to SA, G (Jeffrey)
 11800 ITALY RAI 2130* II, nx, mx, ID, F (Schwartz)
 11800 CANARY IS RNE 2145* SS, ID, nx, mx, G (Schwartz)
 11800 SRI LANKA SLBC 1400 t/i-1730*, Hindi, EE ID on the half hour as Sri Lanka Broadcasting Corporation, G most mornings, (Davis)
 11810 ITALY RAI 0100-0115 EE, nx, ID, into FF at 0120, G (Peters, Bettenhausen)
 11810 JAPAN NHK 1415 EE, 1630-1715 EE/JJ, nx, mx, cmntry, P (Bettenhausen, Schwartz)
 11815 POLAND Polish R 0325-0335 EE, contest px, (Smith)
 11820 MEXICO R Dif de Sonora 0210-0530, 1450-1530 SS, ID, sports, EE/LA pops, jingles, ads, very strong, increased power?, F-G (Behr, Lohe, Zilmer, Miller)
 11823NF GERMANY (DR) RBI 0400-0415* EE to WCNA, split freq., //11840, 11970, F (Reeves, Jeffrey)
 11825 TAHITI RT 1740 FF, vocals, EE ID & nx at 1746, rock mx, G (Whaley)
 11830 PHILIPPINES R Veritas, 1100 Lang ID, time pips, EE rel px, //15310, (Robinson)
 11835 HAITI 4VEH 1630-1710* EE, mx to 1700 ID then nx & wx to s/off, F (Burlew)
 11835 URUGUAY R EL Espectador 0045-0215, 2355, SS, t/k, nx, mx, P-E (Lohe, Yamron, Zil.)
 11835RF SRI LANKA VoA Colombo 1330-1815*, ID on the hour and at s/off as VoA Colombo, back on this freq ex 11850, F-G, some QRM to 1645, (Davis)
 11840 GERMANY (DR) RBI 0124 EE, Armchair stroll through Berlin by YW, E (Eichenhorn)
 11840 PORTUGAL R Nac 0214 FF, s/on IS, ID, Anthem, to Canada, G (Whaley, Jeffrey)
 11845 VATICAN VR 0100-0115 EE, church nx, t/k by M&W, P-G (Nebron, Peters, Bettenhausen)
 11850 GHANA R Ghana 2030-2035 EE, cmntry, African mx, F (Zilmer, Whaley)
 11855 BRAZIL R America 2115, 2300, PP, nx, poetry, t/k, P-G (Zilmer, Mayer)
 11855 USA WYVW 0010 SS/EE, 0230 EE, mx, G-E (Jeffrey, Miller)
 11865 BRAZIL RC de Pernambuco 2100, 0200, 0340 PP, light mx, amnts, sports, P-G (Brock, GLDXA, Zilmer, Ronda) G (Perdue)
 11865c ZAIRE R Lubumbashi 0515-0540 FF, African mx, t/k, mention Zaire in song and t/k, / SWITZERLAND SBC EE into GG at 2130, mailbag, F (Mayer)
 11870 INDIA AIR-Bombay 1040, Variety px w/national mx, (Padula-Australia)
 11870 USSR Khabarovsk 1430-1530, special px to Pacific fishing fleet in RR Wed, Fri, Sat, & occ. Sun., //12010 (stronger), 1735-1805 FF, nx, youth festival prop, cmntry, G (Davis, Schwartz)
 11880 TURKEY VoT *2100-2130* GG, 2200-2230 EE, nx, ID, mx, t/k by W, G (Schwartz, Stephens, Wallace, Eichenhorn)
 11890 GERMANY (DR) RBI 0340 EE, YW&OM t/k about Crime, //11820, 11840, G (Eichenhorn)
 11900 PHILIPPINES FEBC noted here occ. w/EE nx 0900 when not on 11890, could be signal for a permanent move, (Padula-Australia)
 11900 USSR RM 0830 EE, nx, (Robinson)
 11900NF NIGERIA VoN 1807 EE, local mx into nx at 1830, F (Miller)
 11905 PORTUGAL RCI relay *0345-0401 RR px, //9615, 7285, G (Behr)

- 11905 TAIWAN BCC HS Minhsiung, traditional CC mx, ammts 0855, tlks 0900, always jammed as is 6085, (Padula-Australia)
- 11905 THAILAND R Thailand, chimes at 1025, EE ID by YW at 1026, px summary, F (Robinson)
- 11910 HUNGARY RB 0300-0314 EE, tlc by OM abt cooking, P-G (Jeffrey, Eichenhorn)
- 11915 ENGLAND VoA Wofferton 2000, ammts in Lang, F (Brock)
- 11915 ECUADOR HCJB 0415-0430 EE & Lang, QRMing themselves, (Tuchscherer)
- 11920 IVORY COAST RTVI 1845-2155 FF, EE ID, nx at 1850, FF tlc, EE & FF pops, over RNE, F-E (Burlew, Lohe, Yamron, Smith)
- 11920 PHILIPPINES FEBC 1130 EE, tlc, mx, medical px, F-G (Zilmer, Brock)
- 11920 SPAIN RNE 1920-2005 SS, mx, nx for SS workers in Europe, F-G (Lohe)
- 11925NF NIGERIA VoN 0605-0620 EE, world nx, review of editorials, Af mx, ID, G (Perdue)
- 11925 BRAZIL R Bandeirantes 2115 PP, sports, F (Zilmer)
- 11925 SPAIN RNE 0311-0344* EE, nx, tlc, mx, F (Nebron)
- 11930 ECUADOR HCJB 0200-0230* SS?, uninterrupted national mx of Ecuador on Mon, G (Jones)
- 11930 CUBA RHC VoV px 0220 EE, E (Stephens)
- 11935 PORTUGAL RP 0347-0430 EE, nx, tlc, cmntry, YW w/freq., F-G (Eichenhorn, Nebron)
- 11940 SINGAPORE RS 1250, 1630* EE, ID, freq., times, Sports Mag, easy listen mx at 1255, NA at s/off, F-E (Robinson, Whaley)
- 11940NF SWEDEN RS *0515 EE, nx, bad (Eichenhorn) Schwartz, Bettenhausen)
- 11940 ROMANIA RB 2100-2120, 0218 EE, to NA, tourist nx, ID, prop., G (Stephens, Zilmer, /)
- 11940 LIBERIA ELWA 1915 EE, ID, rel mx, F (Miller)
- 11945 GERMANY (FR) DW 0220* EE to SEA, P (Jones)
- 11950 BRAZIL R Min. Educacao 0210-0240, 2300 PP, tlc, mx, class mx, F (Zilmer, Lohe)
- 11955 MALAYSIA BBC 1617, malaysian mx, tlc, F (Drake)
- 11960 ISRAEL IBA *0500 EE, 0515 FF, 2200 FF, //11705, 9009, P-F (Zilmer, Behr)
- 11960 HOLLAND RN 1320 SS, Happy Station in SS, speaks slow enough to understand, //15130, E (Wootten-Morocco)
- 11960 USSR R Vilnius 2300 EE, also 0030 EE, nx, cmntry, F-G (Muhlhaupt)
- 11960 AUSTRIA ORF 0107-0130 GG, Polka mx, (Tuchscherer)
- 11960 GREECE VoA Kavala 1729 EE, IS, ID, S/off, G (Miller)
- 11965 ALGERIA RTVA 0740 FF, //11835 hrd, (Padula-Australia)
- 11965 RWANDA DW Kigali 2114* GG, ID, discuss Athens regime, G (Schwartz)
- 11970 SWEDEN RS 2045 EE, nx to Far East, F (Zilmer)
- 11980NF CHINA RP *1330-1425* Malay, F, but not as strong as 11990 RP, (Davis)
- 11990 CZECHOSLOVAKIA RP 2015 AA, mx, chants, ID "Huna Prague", (Estes)
- 12000 USSR RP&P 0240-0300 SS, then ID, IS into RM SS format at 0300, RM also at 0450, 2300 EE, tlc etc., P-G (Burlew, Eichenhorn, Brock)
- 12000 AUSTRALIA VNG time station 0555, 0615, ID by M, P (Yamron, Burlew)
- 12005 EGYPT R Cairo 2000, 2200, AA, nx, chants, P-G (Agner, Yamron)
- 12020 USSR RM 1900 FF, 1930 PP to Eu, clear ID, but Mrs. S denies that this freq used for anything but Korea, (Reeves); 2005 EE, cmntry (Yamron)
- 12034 CLAND (VENEZ) R Euzkadi 2035, not jammed, F (Yamron)
- 12055 ISRAEL IBA 0344-0400 RR, IS, jammed after IS, P (Nebron)
- 12055 CHINA RP *1800-1855* RR, poor sound quality, jammed, (Davis)
- 12074NF N KOREA R Pyongyang new schedule, replacement for one of the lower freq to Eu, *1600 Korean, 1700 AA, 1800 EE, 2000 FF, 2100 Korean, 2200 CC or continue in Korean, weak, s/off 2255, (Davis); 0900 SS, 1000 EE, //9454, (Behr)
- 12115 CLAND R Liberation 2020 EE, M ann tlc re Saigon & Viet, ID, 2045*, jammed, (Martin-England)
- 12140 CLAND R España Independiente, IS, *1600 with nx and current events, minimal jamming until 1613, then clobbered, (Calkin-Spain) Megyesy, & ?)
- 12175 ICELAND Reykjavik R 1158-1255, EE ID, nx, tlks in Icelandic F-G (Gwikla, Miller, /)
- 12213 USA VoA 1830-2230 SS & PP, fixed circuit relay AM, E (Jenkins). Dont know why SS & PP this early unless advance feed to Monrovia from Greenville-Häuser.
- 12215 USA VoA feeder in Eu Langs 1500-0600, Good AM not SSB, (Davis)
- 13863 USA VoA feeder 2 programs at once on independent side band (ISB), 1600-1800 EE & Langs, (Jenkins)
- 14500 USA VoA 1730-1800 Lang, rapid fade in/out, probably another feeder, (Jenkins)
- 14526 USA VoA 1730-1800 same as above, good after 1800 CW-phone, (Jenkins). Feeder.
- 14860 USSR RM Tb11si? 1220 RR, tlc, cmntry, F (Wootten-Morocco)
- 15000 ARGENTINA LOL time station, 2330-0005 SS, ID every 5 min, G, no WWV, (Behr)Ronda)
- 15012v N VIETNAM VoV 1445 JJ, 1800 EE, 1830 FF, nx, tlc, mx, P-G (Burlew, Eichenhorn, /)
- 15060 CHINA RP 1625 EE, G (Jeffrey)
- 15070 ENGLAND BBC 1419, 1520-1547, 1645-1700 EE, horse race, concert, book reviews, F-G (Schwartz, Miller, Burlew)
- 15084 IRAN R Iran 1429, 1645-1700, 1830-1845, 1930, 2100-0015, 0300 sometimes, Farsi, local mx, TC, fanfare ID, nx, tlc, G-F (many) (GLDXA)
- 15085 EGYPT R Cairo 1845-1905, AA, nx, chants, mx, F (Schwartz); *2330 PP to Brazil, G /
- 15095 CHINA RP 0032 ID in SS, SS tlks, F (Burlew)
- 15100 USSR RM 0715 EE to WCMA, cannot recall when RM last used this freq for foreign svce, (Padula-Australia). Cf July LR. R Yerevan 0301 Armenian, weak, //15180, 15210, 17865, (Behr)
- 15105 WINDWARD IS R Grenada 2045-2100 EE, tlc, request px, QRM NHK 2055, G (Lohe)
- 15105 JAPAN NHK *0500 EE, (Jones)
- 15105 CYPRUS BBC 0200, EE, nx, G (Agner)

- 15110 NEW ZEALAND RNZ 0200-0510 EE, relay of MW HS, jazz, Pk for Children "Playbox
Nx, F-E, (Whaley, Jones, GLDXA, Robinson, Yamron)
- 15120v NIGERIA VON 1545, 1634, EE nx, ID, cmntry, weak, v 15119-20, (Peters, Zilmer)
- 15120 FRANCE ORTF 1612-1616* FF, ID, nx, G (Schwartz)
- 15120 SRI LANKA SLBC 1630, mx, melody time, G (Drake)
- 15125 MEXICO R Mex 2345 SS, mx, ID, G (Calkin-Spain, GLDXA)
- 15130 HOLLAND RN 1320 SS, Happy Sta px, E (Wootten-Morocco)
- 15135NF BRAZIL R Soc da Bahia 2200 PP sports, mx, to 0035* (7/29) Sundays only. Not
R Panamericana, (Behr); R Panamericana 2015 PP (7/15) tlc, P (Ronda); maybe Bahia?
- 15135 FRANCE ORTF 0135-0200 SS, tlc abt radioactivity and H tests, mx, ID, G (Fino)
- 15140 USSR RM 1600-1610 EE, world nx, political tlc, (Tuchscherer)
- 15145 BRAZIL R Jornal do Comercio 2330 PP, tlc, QRM de RNE, P (Zilmer)
- 15145 SPAIN RNE 0100-0130 SS, M&W ann, SS mx, songs, ID, IS, G (Fino); *2200-2330 SS
to SA, ID for Noblejas, E (Cwikla)
- 15145 GERMANY (DR) RBI 1845 EE, "Thank you for writing" to Africa, P (Zilmer)
- 15150 CHILE R Corporacion 0300 SS, mx, ID, VG (GLDXA)
- 15150 USSR Moscow HS, 1800-1830, class mx, IS at 1830, f/o about 1840, F (Burlew)
- 15155 BRAZIL Rdif. de Sao Paulo 2347-0000 PP mx, ads, ID, F (GLDXA, Ball)
- 15155 FRANCE ORTF 1600*, 1055 EE, ID, nx, mx, F-G (Schwartz, Eichenhorn)
- 15160 AUSTRALIA RA 0240, *0400-0430, 0805 EE, IS, nx, stocks, //15240 G (GLDXA,
Eichenhorn, Burlew, Drake)
- 15160 ALGERIA RTVA 2300-2400* AA, AA mx, nx, G (Cwikla)
- 15160 USA OAS Greenville SS tlks, mx, G (Megyesy). Time?, sched 2200-0200.
- 15165 ISRAEL IBA *1957-2145 EE, IS, ID, nx by YW, Israeli mx, //11705, 17755, 9009, 7360,
9625, 9780, F-G (D'Angelo, Brock, Marshall, Ronda, Nebron)
- 15165 DENMARK RD 1245, 1635*, Danish, nx, px abt Mozambique, F-G (GLDXA, Schwartz)
- 15175 NORWAY RN 1923-1930* NN, mx, nx, ID, G (Schwartz)
- 15185 NIGERIA NBC 0710 EE, cmntry by M, F (Wallace)
- 15185 FINLAND RF 1400-1430 EE, to NA, discuss of Int. Yoga Cong, G (Ronda, Schwartz)
- 15185 USA WINB 2136-2145 EE, rel tlc, F (Nebron) Zilmer)
- 15190 BRAZIL R Informencia 2200-2300 PP, nx, pol. tlc, QRM RCI carrier 2252, P (Lohe,
ETHIOPIA ETLF 1340 EE, nx re hijacking, F (Eichenhorn); 1510 AA, rel px, F (Ronda).
- 15190 USSR RM African svc 2105 EE, unlist WRTH, but FBIS indicates ex 15200, does
interfere with WINB tx on 15185 same time period (Wootten-Morocco).
- 15190 CONGO V de la Rev Congolaise 1300-1330, 1835 FF, mx, nx px, "24 Heures en Afrique",
F (Ball, Yamron)
- 15195 MALAGASY REP RN 1320-1350* DD, ID, nx, F (Schwartz)
- 15200 UNID 1920 AA, mx & chants, G (Estes)
- 15200 ENGLAND BBC 2130 EE, WS, F-G (Brock)
- 15200 AUSTRIA ORF, 1830-1856 EE, "rept from Austria" ID, px for ME, disc of Austrian
postal system, F (Schwartz, Smith)
- 15200 LEBANON RL 1855-1900* EE, nx, P (Zilmer)
- 15210 VATICAN VR 1648 AA, IS, ID in Latin, rel mx, F-G (Miller)
- 15220 S AFRICA RSA 0927, 1420 EE, sports, tlc, F-P (Miller, Eichenhorn)
- 15225 ALGERIA RTVA 1340 AA mx under VoA, P (Ronda)
- 15230 USSR RM 1120 EE, OM cmntry on party speech, P (Eichenhorn)
- 15235 USA VoA Greenville, 1500 Estonian, 1600 Latvian, 1630 Czech, 1700 Lithuanian,
1730 Hungarian, 1900 Polish, nx, cmntry, ID, IS, F-G (Fino)
- 15235 MOROCCO UN Radio 0645 SS, nx, usually II this time, (Padula-Australia)
- 15235 BELGIUM RTB 2315 EE, IS, ID, mx, tlc in SS, F-P (Eichenhorn)
- 15240 GERMANY (DR) RBI 1415-1430* GG, ID, nx, disc of Int Youth Cong, G (Schwartz)
- 15240 SWEDEN RS 1850-1857* EE, disc of labor problems, mailbag, G (Schwartz)
- 15245 USSR R Yerevan 0325 EE, F (Jeffrey) Wootten-Morocco)
- 15245 ZAIRE Lvd Zaire 1830-1905, 2004 FF, nx, cmntry, children sing, P-G (Ball, Miller,
15250 ROMANIA RB 1325 EE, OM w/ID, sport nx, G (Eichenhorn)
- 15260 USSR RM 1143 EE, OM nx, tlc re US dollar, G (Eichenhorn)
- 15260 USA KGEI 0020 SS, songs, EE lesson, ID, (Megyesy). Maybe 15280-ed.
- 15265 AFGHANISTAN R Afghanistan 1800-1827* EE, px essentially the same as before except
for some idealistic tlc abt the 'New Republic', nx, local mx, US pops, nx and
rejoicing on day of revolt, F-G (Miller, Wootten-Morocco, Reeves, Cwikla,
Burlew, Yamron)
- 15270 ENGLAND BBC 1315-1330 SS to Iberia daily, nx, cmntry, (Calkin-Spain)
- 15275 GERMANY (FR) DW 0600 EE to Africa, 1900-1915 GG, ID, tlc abt US Mars probe for
1979, G (Jeffrey, Schwartz)
- 15280 USA KGEI 0250, 0310 SS, tlc, cmntry, F-G (Spayd, Jeffrey)
- 15290 PHILIPPINES VoA 2340 EE, 'Breakfast Show', (Yamron)
- 15295 PORTUGAL RP 2200 PP, 2333 PP for Brazil, F-G (Brock, Reeves)
- 15300 GREECE VoA Kavala 1200 RR, nx, cmntry, F (Ball)
- 15300 ECUADOR HCJB 2100 GG, 2130 SS, rel mx, tlks, EE ID, F-G (Fino)
- 15300 JAPAN NHK 2300 EE, ID, Koto chimes at 2300, P (Martin-England)
- 15305 SWITZERLAND SBC 1825-1847* GG, 0204 EE, var tlks, G (Schwartz, Eichenhorn)
- 15315 PORTUGAL RP 0115-0125 SS, M&W tlc abt Port, amts, ID, IS, G (Fino)
- 15320 ECUADOR HCJB 1853* GG, ID, rel px, G (Schwartz)
- 15320 AUSTRALIA RA 0445 EE to Pac Is, //17795, G (GLDXA)
- 15335 FRANCE ORTF 1615-1630* FF, ID, nx, cmntry, G (Schwartz)
- 15335 S KOREA R Korea 0311-0315, cmntry on Korean economy, ID 0315, F (Mayer)

- 15345 TAIWAN VoFC 0300 EE, interview, ID, nx, CC mx, 0320*, P (Whaley)
- 15350 LUXEMBOURG RL 2006-2035 FF, pops, Johny Cash mx, 1915-1920* FF, ID, pops, G (Schwartz); 2200 FF, nx, EE rr pops, G (Mayer)
- 15360 USA WNYW 2350 SS/EE, 'Mx from NY', E (Miller)
- 15360 FRANCE ORTF 2328 EE, OM tkl abt Pres Nixon, F (Eichenhorn)
- 15365 PHILIPPINES VoA Tinang *0800 EE ID, F-P (GLDXA)
- 15365 CANARY IS RNE 0100, 0306, 0420 SS, mx, ID, nx to SA, G-E (Peters, Cwikla, Megyesy)
- 15390 JAPAN NHK 1450-1510 JJ, nx, ID, IS, F (Schwartz)
- 15395 USA VoA Greenville 1800 Greek, 1830 Bulgarian, 1900 Albanian, 1930 Romanian, EE ammts, nx, cmntry by M&W, ID, IS, VG (Fino)
- 15400 IRAQ R Baghdad 0350-0415 AA, YW nx, mx, (Smith)
- 15400a USSR RP&P 1500 s/on EE to Mid East, G (Agner)
- 15405 USSR R Yerevan px in Armenian 0300, into EE 0323 then 0330*, continues w/RM EE to NA, //17775, 17865, 15180 all hrd, (Padula-Australia)
- 15405 AUSTRALIA RA 2230-2245 Indon, EE ID then into Indon px, mx, (Lohe)
- 15410 USSR R S Rodina *1359-1417 RR, IS, ID, YW&OM tkl, mx, F (D'Angelo) Stephens)
- 15415 KUWAIT RK 1800-1835 EE, requests, US pops, YW ann, F-G (Martin-Eng, Miller, /
- 15425 AUSTRALIA Perth ABC 0800 EE, pops, tkl, G (Drake)
- 15435 GERMANY (FR) DW *2300SS, *0030 PP, to LA, ammts, tkl, mx, ID, IS, G (Fino)
- 15440 PHILIPPINES FEBC 2350 EE, nx, mx, ID at 0000, into Lang w/EE lesson, F (Whaley)
- 15445 JAPAN NHK 2345 EE, nx, //17895, F (Yamron)
- 15447 BRAZIL R Nac 2243, 2315 EE, 0334 PP, mx, tkl, hrd in Australia, unusual rx possible by long path over NA, F (Padula-Australia, Megyesy, Stephens)
- 15455 USSR Moscow HS 1900-1930 RR, tkl by M&W, IS, ID, F (Burlaw)
- 15460 USSR R Tashkent 1200 EE, nx, cmntry, P (Wootten-Morocco); R S Rodina *1959-2002 RR, IS, ID, G (D'Angelo)
- 15520 BANGLADESH RB 0230-0300 EE, nx, (Smith); 1430 Bengali ID, nx, F (Calkin-Spain)
- 15600 USSR RM HS SSB feeder, 1700, irr sched, chimes & ID, F (Jenkins). One of many.
- 15850 USA VoA feeder, irr sched, F (Jenkins). Unlisted-Hauser.
- 15865 USA VoA feeder, irr sched, IDs every 1/2 hr., (Jenkins). Unlisted-Hauser.
- 15753 USA VoA feeder SSB, EE jazz club, G (Jenkins). Bethany and Greenville fixed both listed here-Hauser. (Sorry about order)
- 15910 ENGLAND BBC feeder, ID as BBC operating in fixed circuit 1630-1700, also used for teletype, G (Jenkins). Daventry to Cyprus at this time, also to Ascension at other times-Hauser.
- 16222 USA VoA 1500-2230 SS, PP, EE, Jazz Club, AM feeder?, (Jenkins). Unlisted-Hauser.
- 17674 CHINA RP 0025 EE, 'Listeners Letterbox', //15520-E, 15060-F, E (Burlaw)
- 17700 USSR RM 1555-1600* EE, cmntry, G (Wootten-Morocco)
- 17715 AUSTRALIA RA 0515 EE, OM w/dateline re Mozambique, P (Eichenhorn)
- 17720 TAIWAN VoFC *0200 EE, OM w/ID, freq, nx, mx, P (Eichenhorn)
- 17735 PORTUGAL RFE 1900 Romanian, pops, nx, F-G (Brock)
- 17745 EGYPT R Cairo 1615 AA, ID Idha'at Misr Al-Arabyah, tkl, chants, (Wootten-Mor.)
- 17750 CLAND R Liberty 1640 Belorussian, tkl, mx, P due to CW channel marker repeat SU in code, (Wootten-Morocco)
- 17755 ITALY RAI 1400 II, IS, ID, Attentione Canada, G (Miller)
- 17770 PORTUGAL RFE 1104 RR, jammed, but not bad here, tkl, mx, (Wootten-Morocco)
- 17780 AUSTRIA ORF 1813-1835 GG, ID, nx, cmntry, F (Schwartz)
- 17790 ALGERIA RTVA 2230-2300 AA, ID, AA mx, tkl, E (Burlaw)
- 17795 AUSTRALIA RA *0055, *0259 EE, nx, mx, E (Nebron)
- 17805 SPAIN RNE 1500-1545 SS, SS mx & song, ID, IS, weak and fading, (Fino)
- 17810 NETH ANT RN 1955-2016* DD, ID, nx, ammts, P-G (Jeffrey, Schwartz)
- 17815 SWEDEN RS 1459 FF, 1943-2005 EE, ID, nx, F (Lohe, Miller)
- 17825 CHINA RP 0500-0530 Indon, recent NF this svce, (Padula-Australia)
- 17855 CUBA RHC 1735 FF, ID, IS, OM&YW tkl, F (Eichenhorn)
- 17855 MOROCCO VoA 1555-1700 EE to Africa, many II songs and other mx, ID, IS, G (Fino)
- 17870 AUSTRALIA RA 0124 EE to SEA, best hrd in Morocco, G (Wootten-Morocco)
- 17870 ISRAEL IBA 1135-1200 EE into FF, mx, ads for Barclay's Bank and an auto, F-E (Wootten-Morocco, Miller)
- 17925 EGYPT R Cairo 0030-0046* AA, comedy show, laughter, (Tuchscherer)
- 17935 BANGLADESH RB 1840 EE, tkl, local mx, 1900*, (Martin-England)
- 18275 USA VoA feeder 2000 Hungarian px, distorted, CW interference, E (Jenkins). 50 kw to Munich from Greenville-Hauser.
- 19260 USA VoA 2025 ISB tx lang w/C&W mx in upper, FF nx in lower, sometimes these px hrd on reg freq same time, sometimes ID as pt to pt in fixed circuit, (Wootten-Morocco, Jenkins). 50 kw to Tangier from Greenville-Hauser)
- 19510 INDIA AIR 1945 EE, nx, mx, (Wootten-Morocco) 2 x 9755?.
- 19723 USA VoA Greenville feeder on broad band SSB, jazz club px 1630, FF & GG, 2030-2130, ammts as fixed circuit, (Jenkins). 50 kw to Munich from Greenville-Hauser)
- 21645 FRANCE ORTF 1128 FF to St. Pierre et Miquelon, tkl, mx, G (Wootten-Morocco)
- 21740 AUSTRALIA RA 0130-0300 EE, nx, variety px, VG (Spayd)
- 23190 ENGLAND BBC feeder in ISB, EE cricket upper, FF nx lower, 1215, (Wootten-Morocco)
- 25630 FRANCE ORTF 1510-1535 EE&FF, feeder (Wootten-Morocco)
- 26000 USA VoA ISB feeder 1800-2115, FF&GG, (Jenkins). Believe Greenville-Hauser)
- 26040 USA VoA Greenville 2100 EE to Africa, F (Wootten-Morocco). Thanks to all again.
- Info on feeders, inc cmnts by G Hauser, inc for your information altho not reg SWBC. LR repts should be sent to Mac Leonhardt first, tnx. 73 from Jerry A. Lineback

A little more activity this month. 48 reporters, and here's the list

AGNER, Mike, Waldwick, New JerseyLafayette 17-0180L
BALL, David R., Downsview, Ontario. DX 150A
BARTO, Sam, Morris, ConnecticutBC-794
BEHR, Ernie, Winnipeg, Manitoba R4B/XCR30
BROCK, Pauline, Montreal, Quebec.SX 190
BURLEW, Doug, York, Pennsylvania.GR-64/SX 190
CALKIN, Gregg, A., Madrid, Spain.SW4A
CWLKLA, Tom, Wethersfield, Connecticut.DX 150A
D'ANGELO, Rich, Brooklyn, New York.
DAVIS, Bill, Laguna Niguel, California.Homebrew
DOLYAK, Evelyn, Griswold, Iowa. HA700
EICHENHORN, Sandy, Troy, Michigan SX 190/SFR4
ESTES, Steve, Newport News, Virginia.SX 190
FINO, Henry E., Rochester, New YorkRCA Victor Console
GENDRON, John C., Arlington, VirginiaSX 190
GLDXA - Great Lakes DX Assn. (Andy Robins/Kurt Cox &
Co., Kalamazoo, Michigan) . . (2)SX 190
HARDESTER, Mike, Modesto, California.Barlow Wadley XCA-30
HEUTTE, Fred, Jr., Washington, D.C. (QHT #1). R-390/URR
HEUTTE, Fred, Jr., Brome County, Quebec, Canada (QHT #2).HQ129X
JEFFERY, Tom, Bend, Oregon. HQ100A
JONES, Jimmy, Nashville, Tennessee.DX150A
KING, Donald, Haver town, PennsylvaniaDX150A
LEONHARDT, Mac, Liberty, Indiana.SB-310
LOHE, Ernst G., Alexandria, Virginia.RB4
McCALL, Calvin O., Newport News, VirginiaSX 190
MARSHALL, Larry, Chula Vista, California.SX 190
MARTIN, A. E., Warrington, Lancaster, United Kingdom.AR88D
MAYER, Alan, Park Forest, IllinoisSB- 310/DX150B/MC 173/A20
MEGYESY, Dave, Trenton, New Jersey
MILLER, Albert A., Youngstown, Ohio. HRO-500
MUHLHAUPT, Andy, Waldwick, New Jersey. Midland 11-500
NEBRON, Larry, Daly City, California SX 190
PADULA, Bob, Surrey Hills, Victoria, Australia MarconiCR100
PERDUE, Neal, Millington, Tennessee. HA-600A/SW4A/A20
PERRY, Ralph W., Evanston, Illinois.SX100MkII/A20/BC-221-AH
PETERS, Harold, Washington, PennsylvaniaSX 190
REEVES, Scott, Laurel, MarylandSX 190
ROBINSON, D., Levittown, Pennsylvania
RONDA, Jim, Youngstown, Ohio. HQ180/SW4A/A20
SCHWARTZ, Richard A., Dover, Delaware.SX 190
SMITH, Arthur, Wilsonville, Alabama.BC342N
STEPHENS, Robert L., Carrollton, GeorgiaSX 190
SPAYD, Steve, Waldwick, New JerseyLafayette HA63A
TUGHSCHERER, John, Neenah, Wisconsin HQ100A
WALLACE, Steve, Lewistown, PennsylvaniaDX150A/A20
WHALEY, David W., Ventura, California.SW4A
WOOTEN, Charles A., USN Morocco.Zenith Transoceanic/SRR-13/R-390
YAMRON, Larry, Pittsburgh, Pennsylvania.HQ180/SX 190
ZILMER, Robert, Milwaukee, WisconsinSFR4

Also a cknowledged are late reports from Kenneth A. Earhart, Allentown, Pennsylvania; Edward J. Pyatt, Atlanta, Georgia; Max Voran, Newton, Kansas. Come on fellas, ya can't mail them on the 11th or 12th and expect them to be here on the 12th.

LATE FLASH: Radio Sweden's "Sweden Calling DXers" broadcast of August 15, 1973 carried the following announcement:

"Effective September 7, 1973 Radio Nacional de Brasilia will add four languages to its existing broadcasts in English, French, German and Spanish. The new languages will be Italian, Arabic, Dutch and Swedish. The station also intends to broadcast in some major African languages. For this purpose, the station is just now in the process of acquiring three new shortwave transmitters of 250 kW each, also a 500 kW transmitter for the medium wave. Presently the station is using the following frequencies: 1210, 6050, 9665, 11720, and 15445. The address is Radio Nacional de Brasilia, P.O. Box 1620, Brasilia, DF, CEP 7000, Brazil." (Mac Leonhardt via R. Sweden)

FLASHSHEET

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

EXTRA

SEPTEMBER 1973



Freq: KCS

Time: GMT

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

IMPORTANT NOTE: In answer to several queries, the dates of Ramadan this year, will be with the beginning September 28, and continue through October 27. (Don Jensen, Wisc.)

AUSTRALIA 4920 Regional Brisbane, 1155-1200 in EE, music, talk by W, good no strain lvl. (Jerry Lineback, Ill...RA to Indonesia S/on 0830, is 9695, not listed in their Sept.

Sked. Bob Padula says is DARWIN. (August Balbi, Cal.)

BOLIVIA 4467 Now reported as CPL42, R. Movima, Sta. Ana, Beni; has QSLed. (Scand. DX Rept., via Ernie Behr, Canada)

BRAZIL 4915 R. Difusora de Macapa heard with definite ID, PP news, 0015-0100, native and EE pops. (Ernie Lohe, Va.)...9645 R. Bandeirantes noted several times on this new fgy, at around 2225 fade in with national prgm; at 2300 makes S/off by simply pulling the switch! (Ernie Lohe)...(See previous FS) This one is not R. Panamericana as reported to FS. Is R. Soc da Bahia in a move to 15135, for heard from 2030 to 2125 in PP with several IDs. (Ernie Lohe)...15445 R. Nacional de Brasilia, is also using the following fgy: 11720, 9665, with the following schedule: 1930 in GG; 2030 in FF; 2130 in PP; 2230 in EE; and 2330 in SS. Sometimes good lvl, asking for tapes. Says will return them with recorded native music there-on. (Ernie Lohe)

COLOMBIA 3139 The unidentified that I previously reported as 3140, is actually closer to 3139. It can be heard some nights and some mornings when the noise lvl is low. I still do not have a good ID, can any one else identify. 0420-0450 SS, music, talks, mention of Colombia, 8/24. (Jerry Lineback)(SWCDKERS says is: La Voz de la Cincorder at Cali. Was so credited in Mid-Month FS, though ID needs a confirmation, possibly, Editor)...5035 Voz de Caqueta heard at sprightly lvl, 1030, music, IDs, TCs, in SS. (Ernie Lohe)

DIEGO GARCIA (FLASH) I noted mention of Diego Garcia in July and August FS. Being interested that it was credited as a Navy Station I did a little checking, but should have done a lot of checking as all I found out was the following information: Diego Garcia is base for a U.S. Naval Communication Station(NKW). The location of Diego Garcia is unknown to me; however, communications and/or reception reports may be sent to the following QTH:

Commanding Officer
U.S. Naval Communications Station - NKW
Diego Garcia
FPO San Francisco, 96665

In regards to Diego Garcia, their "general mission (purpose) is to serve Navy Command and to support the U.S. Naval Operating Forces around the world". This information is via Naval Telecommunications Command. Hope its of help. (HN Michael S. Hardester, USN, U.S. Naval Hospital - Box 89, Lemoore, California 95245) (It sure is a BIG help, Mike, we can always use information like that, Editor)

DOMINICAN REP 3365 R. Exitos 0440-0450, SS, N&W, LA music in SS, an ID. (Jerry Lineback)

FINLAND R. Finland's one hour evening transmission to NA will be changed from 0300 GMT to 2300 GMT, effective September 2. And, fgy will be changed from 9585 to 15185. ES at 2300, Finnish at 2330. (Jimmy C. Jones, Tenn.)

GERMANY(W) DW on 6040 with EE news, music, 0130-0250. (William Higham, Ohio)

GHANA CBS on 11850, resumed EE 2000-2100, after a long absence. (August Balbi)

GRCE 11840 Kavala VOA, in the clear 2100-2130, strong signal in RR. (August Balbi)...

7295 VOA Kavala, 0520-0530 EE, talk about world economy, music, fair lvl. (Jerry Lineback)

HOLLAND 9590 RN at 0200-0320 in SS with pops. (William Higham)(Isn't this a Benaire Relay, Editor)

KOREA(N) R. Pyongyang, 11535, heard as early as 1130. Language talk, music. BEC claims FF at 1415, though I have not heard same, 8/18. (Bob Zilmor, Cal.)

INDIA 11620 AIR heard with EE news S/on 1800, though weak signal. (August Balbi)

INDONESIA VOI, Jakarta, 11713A, heard every morning now, though best after RA S/off an 11710 at 1215. At 1130 VOI is in EE with American pops to 1158. Then they play some Hawaiian guitar music as IS(Love Ambon, I think, Editor), into language till 1300 S/off. (Bob Zilmor)

ISRAEL IEA in EE 2000-2045 on 15165 good lvl, //17765 weak, // and 11705 fair lvl. FF at 2200 S/on 11960 good, //11705, fair lvl. Latter fgy also heard 0500. (August Balbi)...

IEA on 11960 with S/on 2200 in FF - must be a new transmitter, maybe 300KW?? Parallel with 11705, but this fgy QRM'd...17870 *1130-1200* in EE to NA, paralleling 15425, though 11865 outlet could not be heard due to Uncle's VOA QRM. (Bob Zilmor)

LEBANON 11790 Radio Lebanon now has EE news 0230-0300, for their friends, and etc.(William Higham)

LIBERIA 4770 ELWA 0640-0645 EE, religious music, an ID, poor lvl. (Jerry Lineback)

MAIL 4781 RM, Bamako, lang talk by M&W, Afro music, FF news at 0700. (Jerry Lineback)

MAURITANIA 4850 Nouakchott 0705-0715 in AA chants, possibly news, heavy UTE QRM. (Jerry Lineback)

MEXICO 11820 XEER Hermosillo, continues to be well heard 1400-1700 in SS talks, music and ads. Power must be up from listed 150 watts! (Ernie Behr)...15125A R. Mexico noted in SS 0230, with Latin-American music. (William Higham)

NEW HEBRIDES (TENT) (FLASH) 3945.2 I must say I just had a shocking experience! On 8/14, from 0816 to 0900, I logged Radio Vila. Prgram consisted of talk in FF and Pidgin, guitar and flute music. Station S/off at 0900:30 with no national anthem. Signal faded in and faded out. NO Japan or ARO QRM on a Tuesday morning. Report sent. If not Vila, who then?? (Doug Bentcoer, Pa.) (Apologies to the originator of this item, but I am not sure that I deciphered his last name correctly, Editor) (CONGRATS, the details sound good to me, and on a few checks I have found something there, though nothing conclusive enough to write a report on, as yet, Editor)

NEW BRITAIN 3385 R. Rabaul 1125-1130 in Pidgin, religious music, drums, talk, though poor lvl. (Jerry Lineback)...VL9ER fair at 1300, EE and native, 3385. (August Balbi)

NIGERIA Legos now a regular on 11923 S/on 0550, //7275 EE news 0600, 0700. (August Balbi)

PAPUA/NG 3925 Port Moresby, VIK-3, 1135-1145, vocal music, QRM de AROs, paralleling 4890. (Jerry Lineback) (On a recent check I found conditions currently two mornings, v. excellent openings to the So. Seas, with the fore-mentioned outlets, and the Indonesian Regionals popping up all over the dials, from beginning checks 1130, Editor)

PAKISTAN (See previous FS) First of all, there seems to be some dispute on this. Joe Helm said he hears Bangladesh at 0234, 17933V. This incorrect-this is Pakistan. R. Pakistan S/on every evening at 0158 GMT with ID and EE Freq Sked. Then at 0200, they have language (possibly Bengali) until 0245*. Following is a list of freqs heard last few months: Karachi- 11673A, 1300-1330, EE news; 17890 at 2000, EE news and both parallels each other. 15335, 0200-0245 in language, 17937, like time in parallel. 17844A, *1330-1345*, EE news at dictation speed, 21590, like time in parallel. 17915 (new) *1527-1545*, EE news dictation speed; and a parallel 21950(60) announced but not heard. (Credit all to Bob Zilmer)...Bob further says R. Bangladesh, Dacca is noted as follows: 11650//15522A, 1700 in language and music. And, 15455, *1230-1300*, EE news, cmtry, and music, noted 7/22.

PERU (FLASH) 4815 Radio San Martin, is new, and has the following QTH: Apartado 207, Iquitos. (This from DX Juke Box via Larry Yarnon, Pa.)...4825 La Voz de la Selva, Iquitos, now reported in Europe, ex-R. San Jose. (Scand. DX Rept. via Ernie Behr)...5040 Radio Reloj, Lima, is on this freq, according to Lorne Kliever of R. Del Pacifico. R. Mar was reported here in February. (Ernie Behr)...5010 R. Eco, 0130-0200, Latin-American music, ads, and IDs, all Spanish. (Ernie Lohe)...9562 R. Nac del Peru, again noted, in SS and ID, 0130. Lot of QRM around the spot. (Ernie Lohe)

PORTUGAL R. Renascenca is operative. Recent visit to station paid off as QSL received by card with full data. Signed by the Director. (6155) (I have been wondering if this low powered one is operative, it is, Editor) (Credit for this FLASH to Gregg Calkin, Spain, via Don Jensen)

SO AFRICA Springbok Radio replaced 11 mcs outlets with 8185 (I don't think this quote is correct, August probably meant 7175), 7275. EE language noted around 0530, EE news at 0600, fair to good lvl. (August Balbi)

TURKEY 11880 Radio Ankara heard in AA at 0700, also 1800; GG at 2100; FF 2130. And, EE including news 2200-2230 S/off, improved strong lvl signals. (August Balbi)

VENEZUELA 6010 Seldom reported Radio Los Andes, listed 1kW, observed at 1100 in SS. (Ernie Lohe)

UNIDENTIFIED: Sure hope some one IDs the one on 4856, soon. I got a lot of hours invested in this one. On 8/2, till 0535 closing down, after sports events, weak lvl. (John Tuchscherer, Wisc.) (John, its possibly R. Centenario, BOLIVIA, on 4853V, according to Don Jensen's NU, Editor)...4820 Heard from 1100 with many SS ads, "Cafe Oro", and etc, many cuckoo sounds and mx. Good lvl 8/14, no sign of HRVC that day. WHO?? (Ernie Behr)

LAST MINUTE ITEM: RN sent the following sked directly to the NASWA FS, courtesy of our friend Serge Neuman: Effective Sept. 2nd - 0800-0920 (D), Dutch, M Relay (MADAGASCAR), 17810; 0800-0920 (D), Indon, M Relay, 21480; 0930-1050 (D) Indo, M Relay, 21480; balance are all M Relays, Editor: 1100-1220 (D), English, 15320; 1230-1350, Dutch, 15195; 1530-1650 (D), Dutch, 11785, 21730; 1700-1820 (D), Dutch, 9555, 6020; 1830-1950. (D) English, 9555, 6020; 2130-2250 (D), Indon., 7285; 0030-0150 (D), English, 9605, 7285; ("D" indicates daily). (If any one wants the complete sked of RN and Relays, send an SASE to me, I will be glad to send to you, Editor)

JULY 1973: SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 8-4-73: 1-26, 2-25, 3-29, 4-24, 5-32, 6-44, 7-46, 8-44, 9-34, 10-30, 11-23, 12-14, 13-15, 14-09, 15-16, 16-9, 17-22, 18-36, 19-23, 20-8, 21-8, 22-14, 23-0, 24-9, 25-14, 26-8, 27-9, 28-10, 29-17, 30-11, 31-22.

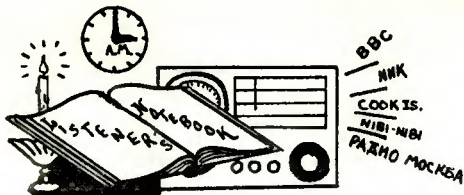
MEAN-20.4 PREDICTED: AUG-32 SEP-30 OCT-28 NOV-26 DEC-24 JAN-22 (Grady Ferguson, S.C.)

(Suggestion: Have a ball, you low band DXers, Editor)

ACKNOWLEDGEMENT: A hearty thanks to all those who so kindly assisted with material for the FLASHSHEET. Please keep the material flowing, the DX Season will soon be upon us. Last minute items may be phoned to 812-882-3976, after 2200 GMT. So ends the completion of this FS effort at 2022 GMT. Now to proof read it and get it in the mails.

.... Vy 73 to All,

AL



Dan Jamison
310 Roanoke Street
Apartment 21
Richmond, VA 23225

Deadline: 15th

SURVEY RESULTS - SPOTLIGHT, PART II I inadvertently omitted credits last month for the Survey Spotlight. Those credits as well as future credits go to "Numero Uno, SWBC Weekly", FRENDS, communications with DXers, and ye-ed's observations. (DJ) And on now to the spotlight.

* REUNION The ORTF station located on Reunion is scheduled from 0230-1830 on 2446 and 4807. The 4KW outlet on 2446 is the most often reported frequency in NA from Reunion. Signals seem to be at their strongest around 0230 s/on on 2446. Copy ranges from a few minutes to even 45 minutes to an hour. Signal strength, when noted, ranges from poor to even good at times on the East Coast and from poor to fair in the midwest. Of course copy and signal strength will vary from season to season. Needless to say, favorable African conditions are a necessity for reception of ORTF-R. Unsettled conditions with a minor geomagnetic storm in progress and a low coded radio propagation forecast (broadcast over WWV at 14 and 18 min's past the hour) denote a good omen for favorable African conditions. ORTF-R signs on with "La Marsailles" and, as with most ORTF stations, most of the programming is in the French language. There is slight QRM on the freq of 2446 but QRN (atmospheric noise) seems to be the greatest problem. When QRN is high, no ORTF-R, etc.

* COOK ISLANDS So the rumor has it, Radio Cook Islands is no more, ... fini - on SW that is. RCI has probably joined the swelling ranks of Pacific broadcasters who have deleted shortwave broadcasts in favor of AM or FM.

* GALAPAGOS ISLANDS LV de Galapagos, HCVG8, is often heard on 3521. CW RTTY, and phone QRM may be heavy at times and a high noise level often robs the signal of much of its potency. Nonetheless, LVG is often heard at a gud level. The best time for listening seems to be from 0300 to 0400 and the east coast seems to be blessed with the most favorable reception in NA. This is not to say that LVG is not heard in other areas of NA. (I have drawn this conclusion from information at hand) Midwest listeners report good reception at 0300. LVG has been also heard as early as 0130. You may also catch the local morning transmission which has been noted from 1100 to past 1128 fade out ECNA. Remember that fade out times vary from season to season, month to month, and are not the same in the next state. In concluding this tip, let us note that sign off time is usually around 0405 after an anthem; however, LVG has been noted til after 0435. When reporting to the station, be advised that the station engineer, Jorge Navarez, is a stamp collector.

* INDIA Many All India Radio outlets are easily heard throughout NA. The best reception from India has been consistently noted on frequencies in the 31, 25, and 19 meter bands. This is not to say that AIR frequencies in other meter bands are not copied well. The 60 and 90 meter band regional AIR stations seem to be heard best between the months of late November and late January. Reception of these stations seemingly occurs when the signal takes the polar route to NA. The following 31, 25, & 19 meter band outlets are just a few notable freq's on which AIR may be logged with minimal difficulty: 9525 as early as 2015 to after 2200; 9535 around 1230 w/EE //9575//11850 with fair signals noted in the midwest; Bombay has an outlet on 9575 which is noted at a fair level in the midwest which may be hrd around 1230 //9535//11850; Delhi on 9912 has EE around 2145 but the freq often suffers from ute QRM; 11620//9525 has EE to the UK at 2200 - fair to good; the GOS on 11710 is noted fm 2300-2400 but often lacks signal quality; some EE between 1330-1645 has been noted on the poorly received freq of 11810 which is also QRM'ed; Bombay on 15080 is often well received on the west coast from 1530-1800 when there is an EE nx b/c; Bombay again is often good on 15140 around 1100; 15165 has been noted around 1300 on ECNA. Also see "INDIA" in this month's LN for Phil Schnabel's notations on the regional AIR station located at Kurseong. (many thanks to Don Jensen for sharing his views with ye ed on portions of this rap)

* TRISTAN DA CUNHA This, probably could be termed the most difficult country of all to hear in North America. Indeed, to date, it has never been definitely reported as heard by any U.S. DXer. A former official of the station, quoted in the bulletin of the British Association of DXers, states that reports "have not been confirmable in the main, although one Swedish listener gave enough programme content to make it likely that he did hear something. The same applies to the South African expedition reports (of two DXers listening jointly several years ago). They could have heard us, but the reports are all very indeterminate." Tristan Radio, ZOE, uses a 40 watt transmitter, an old British Navy "62" set, transmitting on 3290 kHz. Its schedule is believed to be, still, Wednesdays, Fridays, and Sundays, from 1900 to 2200 GMT. It has been reported that a new 1 KW transmitter has

gone out to the island, but this supposedly was nearly two years ago and there has been no further data as to if it has been activated. If so, it has not resulted in receptions of Tristan Radio. Unless a higher power station is confirmed as being on the air, until such time as a more suitable frequency and schedule are effected, it seems unlikely that North American DXers will be hearing the station. (Don Jensen, Wisc. ... excellent Don!)

* **AZAD KASHMIR** Azad Kashmir Radio is located in Azad (or Free) Kashmir. Kashmir has been the site of a continuing dispute between Pakistan and India since old India was partitioned at the time of the British departure about 25 years ago. Azad Kashmir is considered by NASWA to be a separate radio country, although politically Pakistan retains strong control of the area. The station reportedly operates with 100 Kws from Trarkeel, although studios and offices are also maintained in Muzaffarabad. The station was rather widely heard in North America last winter and a number of prepared card veries resulted. December and January seem to be the best months to tune. Last season the station was heard variously from about 1200 to after 1330 GMT on 4730v. But AKR is notorious for changing frequencies and you should follow the LOG REPORT section during the coming season for frequency data. Recent reports from Ceylon indicate it has been heard around 1410 on 4934 KHz. (another excellent job by DXer Don Jensen of Wisc.)

Remember that LISTENER'S NOTEBOOK is operated on a club-wide basis. Your participation is requested. Feel free to share your observations on some of the stations which will appear in the Survey Spotlight. (A list of the Survey results appears on page LN-1, FRENDX, Aug. 1973.)

BRAZIL A letter from Jose Mauricio de Carvalho, Coordenador Geral, Radio Nacional de Brasilia has stated, "R. Nac. de Brasilia is planning to extend broadcasts to NA, but this will only be possible after we have increased our transmission power. We are hoping to have our new transmitters installed by sometime next year." (Tom Cwikla, Conn.)

CAMBODIA "Phnom Penh, (AP) - Communist insurgents attacked Phnom Penh's main international radio transmission center near the city's airport and blew up a major part of the installation, ... The 100 man government force defending the communications station threw down their weapons and ran when then insurgents attacked last night, the sources said. The communist force, estimated at 30 men, then occupied the main building without resistance and laid explosive charges in several radio rooms. Seven troops hiding around the buildings were wounded by the explosions." (NEW YORK POST, 8/8/73 via Ken Schnur, New York)

ECUADOR The WRTH is imprecise in reporting Radio Rio Amazonas's schedule. 'Tis from 1045-1215 and from 2000-2330 on 4870. The station is also known as La Voz de Macuma. (Philip Schnabel, New York)

GABON Radio Gabon has QSL'ed a report for California DXer Larry Marshall and also has typed the following schedule on the card:

0430-0630	on 4777	100 KW
0630-1630	on 7270	20 KW
1630-2300	on 4777	100 KW

GHANA The External Svc from the Ghana Broadcasting Corp. schedules Eng to

NA & Carrib	2000-2100	11850
S. Afr & Cen Afr	1445-1530	15285
Australia	1445-1530	21545
W. Afr	1400-2215	6130
Europe	2045-2215	9545
E. Afr	1400-1430	15285; 1445-1530 21720; 1645-1730 15285; 1815-19 15285

(Mike Ross, New York)

GUINEA, REP. La Voix de la Revolution, Conakry, again being observed on 15310 from 1500-1600 in French. (Dr. Richard Wood, LA)

INDIA AIR, Kurseong schedules the following releases from its Himalayan post to its Nepali, Tibetan, and Sikkimese speaking audience: 0125-0335 on 4895 0530-0935 on 7230 1130-1700 on 3355 ECNA DXers might check out 3355 from 1130 until 90 meter conditions degenerate around 1200 from early November until January when darkness has fallen in Kurseong by 1130. A quiet geomagnetic field should facilitate reception of their trans-polar signal. Assistant Station Manager S.P. Nag advises us to report directly to Kurseong; Eng reports are understood. (or if you would rather not trust your report letter to yak delivery, phone it in at telephone number 401, hi!) (Phil Schnabel, NY) do they have a toll free number Phil???? har!

INDONESIAN SPELLING REFORM INFORMATION As noted in last month's LN, an agreement for the unification of the spelling systems of Bahasa Malaysia and Bahasa Indonesian has been implemented. This largely involves a move from the Dutch-based spellings of Indonesian to the English-based forms of Malay. It has been further noted that the ch sound is in fact represented now by a simple c, thus Cirebon. This means that, if Malay (Bahasa Malaysia) follows suit and participates in the Malindo reforms, the capital of Sarawak will become Kucing. However you spell it, that means "cat".

(Dr. Richard Wood, Professor of Foreign Languages, LSU)

INDONESIA Jayapura, on the island of West Irian, has been noted on 15345 from 2200-2330. (Radio Nederland's DX Juke Box)

IRAN Radio Iran has an interval signal on every half hour GMT (which is on the top of the hour Tehran time) followed by a time tone and the time given in Farsi. The news in Farsi then follows. It is also noted that the program for "Iranians Abroad", which is broadcast from 2030-2130, has its own IS and does not use a time tone. Our reporter has noted English ID's at approx 2026 and were noted as, "This is the Voice of Iran in Tehran, this is the VoI in Tehran. For further information, please write to the Foreign Svc, P.O. Box 33-200, Tehran, Iran. We now say good night to you from Iran." ((15084 usually yields good to excellent signals til 2232 sign off-ed.)) (Mark Lucas, Ohio)

KOREA, REP. The Voice of Korea (formerly the Voice of Free Korea), Seoul, has been noted with Korean to the Far East signing on at 0830 on 15335, clear, parallel to 9640, mixing with BBC. (Dr. Richard Wood, LA)

MEXICO Radio Universidad Autonoma de Mexico, is now in uninterrupted operation weekdays 1300-0400 or later on 9600 and heard at all times. (many thanks Dr. Richard Wood)

MONGOLIA

Radio Ulan Bator has EE everyday except Sun evening & Mon morning 1220-1250 17780 17820
2200-2230 11810 11860

EE for Africa every Wed and Sat 2000-2030 17780 17860

Mongolian everyday except Monday 0820-0850 "in the 41.4 & 31.3 meter Bands" (maybe 7250 & 9585)

1400-1430 "in the 41.5 & 41.4 meter bands" (maybe 7250 & fm 7215-7225)

French every Tue & Fri 2000-2030 17785 17865

Chinese everyday 1300-1400 7235 7250

Russian every Tues 1030-1100

Russian every Friday 1040-1100

"in the 41.3 and 48 meter bands"

(maybe 7260 & 6250) (Dah Jamison, VA)

((Also see Aug. '73 LN-2 for additional info))

NORTH KOREA Radio Pyongyang has revised its schedule and is noted as follows: 11350 HS relay still signing on at 1950 but noted past 0705
12074 (new freq) noted from 1400-2255 to Europe. (Bill Davis, Calif)

PAPUA and NEW GUINEA The following sked has been contributed by Steve Estes

2410	2 KW	Goroka, Eastern Highlands Dist.	2000-2200	0600-1300
2450	2 KW	Mt. Hagen, W. Highlands Dist.	2000-2200	0730-1230
2468	2 KW	Popondetta, Northern Dist.	0800-1000	
3220	2 KW	Lae, Morobe Dist.	0700-1100	
3245	2 KW	Kerema, Gulf Dist.	2000-2200	0630-1300
3260	2 KW	Madang, Madang Dist.	2000-2200	0600-1300
3305	10KW	Daru, Western Dist.	2000-2200	0600-1230
3322.5	" "	Kieta, Bougainville	1930-2200	0200-0300 0600-
3335	10KW	Wewak, East Sepik Dist	2000-2200	0600-1300 1300
6140	10KW	" "	0200-0400	
3360	10KW	Alotau, Milne Bay Dist.	2000-2200	0600-1220
3385	10KW	Rabaul, East New Britain	2000-2200	0530-1300
5985	10KW	" "	0200-0400	
9575	10KW	Port Moresby, Central Dist.	0100-0200	0430-0530

PERU Radio Nacional del Peru, Lima, observed in all-night svc on 9562 at 0800. Hetrodyne from 9560. Other SW frequency of 6082 not then noted.

PERU Since the departure of Madrid from 9520, Radio La Cronica, Lima, is amazingly well heard from 2300-0500. (thanks Dr. Wood for the two above items)

PERU Radio del Pacifico in Lima has English on 4975 on Mondays thru Fri's from 0200-0300. (DXer Ed Shaw, Virginia - chief "ODD-BALL" of ODDX)

PHILIPPINES The Far East B/C Co. in Manila lists the following Eng sked:

0100-0530	17810	15440	0830-1000	11890	((all xmtr's are	
0100-0800 (Sun)	15440		1130-1230	11920	7225	50 KW))
0800-1000 (Sun)	11920		1245-1400	15440		
0800-0900 (Sun)	15300		1500-1630	15440		
0815-1000	11920		2030-1330	6030	(2 KW - Philippines Svc)	
0815-0900	15300		2330-0100	15385		
0815-0915	9505		2330-2400	15440		
0815-1000	21515 (2 KW)		2330-0530	21515 (2 KW)		
			2330-1000 (Sun)	21515 (2KW)		

(Many thanks Tom Cwikla, Conn.)

SOMALI REP Radio Mogadishu is noted at sign on at 0300 on 6095 in Somali. Good Signals. (thanks are again extended to Dr. Richard Wood)

SOUTH AFRICA Radio RSA, Johannesburg, to NA in Eng fm 2325-0245 and French 0245-0320 now on 6000, 6035, 9585 (non-directional, 100 KW) and 9695. 6000 and 6035 replace former 11970 and 6080. Best reception is on 6035. Effective Sept. 2, this transmission will be on 6035, 9585, 9695 and either 11880 or 11970. (LSU-8, LN-1)

SPAIN Radio Nac. de Espana, Madrid, has introduced an entirely new musical interval signal. They have replaced the excellent 9520 outlet with the less satisfactory 9630 via Noblejas and also added 9530 to Spaniards Abroad from 2200-2330 and to Latin Amer fm 0000-0600; noted in parallel on 9360 and 11775, which closes at 0400. (Dr. Wood ... now, LSU-9, LN-11)

SWEDEN Radio Sweden to WCNA eff. Sept. 2 will be on 6045 fm 0300-0430. To ECNA fm 1400-1530 unchanged on 17815. The evening transmission 0000-0230 frequency has not yet been decided. (Yep, you guessed it, LSU-10, LN-1)

SWAZILAND Trans World Radio plans to start transmissions from Swaziland in about six months (the last of 1973, the first of 1974 - unofficial). Beams will be directed to Southern Africa by using seven types of antenna systems being fed by a 50 KW MW xmtr and two 30 KW xmtr's. The main language will be English. In about 8-10 months, TWR will bring into operation a 400 KW MW xmtr and another two 30 KW xmtr's. It is also noted that TWR decided to establish their xmtr site in southern Africa after a survey of other station's religious broadcasts which showed a lack of such broadcasts to southern Africa. (Jeff Bell, Perth, Australia) SW broadcasts will appear on at least four frequencies once operations are under way. (Steve Estes, Virginia - member of the NASWA regional branch, ODDX)

USSR - SOVIET ASIA This month's wrap-up of Soviet b/c'ing operations has once again been compiled in an excellent manner by DX'pert Bill Davis of Laguna Niguel, California. NIKOLAEVSK or CHITA - 11980; 2100 - s/on, Soviet nat'l anthem, pgm in Korean. 2130: Chinese pgm 2200: Russian pgm. 2300: Eng to ECNA. The confusion factor is the Russian pgm. Its a relay of R. Kiev! Why would they relay Kiev through an Asian station? By 2200 the pgm is also on Khabarovsk on 12050 which makes it look as if it were on purpose! Or is it on one channel of the satellite relay, and they (the Asian technicians) are supposed to be using a different one? PETROPAVLOVSK, KAMCHATKA The new xmtr has been hrd fm 1700-2030 s/on w/the Majak HS. A gigantic carrier was present, but the modulation was running about one %! It was pretty good when it first came on a few months ago, but has slowly gone fm bad to almost useless! I'm pretty sure that this is the same xmtr that is used for the Eng svc to WCNA on 15210 fm 0330-0730. Same characteristics! KHABAROVSK - 9375 daily fm 1800 s/on to 1700 s/off. I suppose the daily hr, is for more or less routine maintenance on the station. The regular HS sta on 9810 (QTH-?) seems fairly regular fm s/on 2145, off at 0800. The pgm for the Pac. Fishing Fleet fm 1430-1530 is now on W,F,S, & irregular on Sundays.

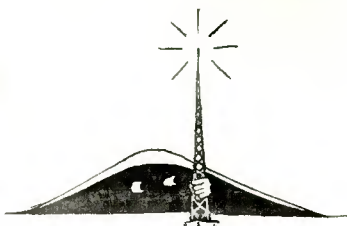
UKRAINE Steve "ODDXer" Estes, VA, rpts that R. Kiev broadcasts to NA on Mon., Thur., & Sats fm Sept. 2, onwards fm 1230-1300 on 17770, 15240, 12050, 9720, 9660, 9600, 9530, 7150 and fm 0330-0400 on 9600, 9530, 7150.

A hardy word of thanks is once again extended to all of our contributors. We are looking for material from you for LN because you all make LN what it is. It is all up to you. If you would like to participate in some of the LN Special Projects, (see Aug LN-5) just send DJ a SASE with the requested info.

NEXT MONTH: More Survey Results

73 and ready listening,

CLANDESTINE BULLETIN



Larry Magne, P.O. Box 2133, Middle-City Station, Philadelphia PA 19103 USA

MIDDLE EAST

IRAN: CIL, INTRIGUE...AND CLANDESTINE RADIO

Iran -- which most of us think of primarily as the home of Persian rugs and a pleasant radio station on 15084 kHz -- has quietly assumed the proportions of a pivotal state in the Middle East.

Because of Iran's importance, the world's major political powers have long engaged in various political intrigues -- including radio -- in order to influence Iran's government.

Why Iran Is So Important

There are two fundamental reasons Iran has assumed such importance in its region.

First, the geography of Iran has made it strategic. It is bordered on the north by the Soviet Union -- the U.S.'s chief rival for influence in the Middle East -- and to the west by Iraq, currently a thorn in the side of Israel and the U.S. Simultaneously, it serves as a stepping-stone between NATO (Turkey) and the pro-U.S. state of Pakistan. To top it off, by controlling the Strait of Hormuz, it has effective control over the Persian Gulf, which the oil-producing countries of Qatar, Bahrain, and Kuwait must utilize for oil tanker transport.

Second, the Persian Gulf states are expected to provide the U.S. with 25% of its oil by 1980. An anti-U.S. regime in Iran could withhold its own oil supplies from the U.S. and restrict passage through the Strait of Hormuz, thus causing a significant oil shortage in this country -- enough to bring important sectors of the economy to a standstill.

Fortunately for U.S. interests, Iran is firmly in the hands of the staunchly pro-Western Shah Mohammed Riza Pahlavi. But it wasn't always this way, and there is no law of nature that says it will so remain.

Communists Seize Power in Iran

The Shah took power in 1941 at the age of 21, whereupon the pro-Soviet "Tudeh" ("Masses") party was formed as part of the legitimate political spectrum. However, as World War II closed, the Soviet Red Army -- then occupying parts of Iran -- aided Tudeh in its program to overthrow the Shah and establish "People's Republics" in the Azerbaijan and Kurdistan regions of Iran. In November, 1945, Tudeh seized power in Azerbaijan and in December declared Kurdistan to be the "Mahabad Republic". The matter was brought before the United Nations and eventually the Red Army returned to the U.S.S.R. In October, 1946, the Iranian Army marched in to the two "People's Republics" and by mid-1947 reestablished the authority of the Shah.



Camera Press

Shah of Iran

CIA Helps Overthrow Socialist Prime Minister

The next coming to power by the political left took place in March, 1951, when the pro-socialist Dr. Mohammed Mossadegh was chosen Prime Minister of Iran. Mossadegh was given dictatorial powers and proceeded to nationalize the oil industry, heretofore owned by Western oil interests. The Shah strongly opposed this plan and, in August, 1953, dismissed Mossadegh.

However, Mossadegh refused to step down, so the Shah secretly requested the U.S. to come to his aid in replacing him. The Shah left the country for a week, whereupon a CIA-assisted action took place in Iran, resulting in the overthrow of Mossadegh and the return of the Shah to the Peacock Throne. In practice, he has ruled absolutely ever since.

Of course, the Shah was indebted to the United States for having helped pull his chestnuts out of the fire. He is now unshakably pro-Western and Iranian oil flows consistently and at reasonable prices to the U.S. and Europe.

The U.S., for its part, has reciprocated by providing huge quantities of sophisticated arms to Iran, along with 1,500 military and civilian "advisers". Additionally, the CIA continues to maintain a strong presence there, from low-level operatives up to the U.S. Ambassador himself, who is none other than former CIA chief Richard Helms.



The New York Times/May 20, 1972
U.S. is said to be advising Iranian forces, around Tehran, Khurramshahr and Abadan (underlined).

Clandestine Radio Threatens Diplomatic Recognition

During all this anti-Shah clandestine radio stations have a-bounded.

"Radio Courier of Iran", operated by Tudeh, has been on the air for years, and more recently several other clandestine stations have been added to the roster, sometimes being merely cosmetic refreshes of formerly "inactivated" stations.

"Radio Courier of Iran" deserves special attention, though; not only for its role as the voice of Tudeh, but also because of a recent imbroglio concerning "Radio Courier of Iran" and the establishment of diplomatic relations between Iran and the German Democratic Republic (GDR).

For whatever reason, Iranians have long considered "Radio Courier of Iran" to be located in the GDR. The rub is that Western intelligence sources long ago determined that it was not located in the GDR, but -- in part, at least -- near Sofia, Bulgaria. Given the considerable presence of the CIA in Iran, the persistence of the GDR thesis seems puzzling.

When, in 1972, the GDR and Iran signed a treaty extending to each other diplomatic recognition, the West German News Agency (DPA) reported that the GDR had "agreed to stop anti-Iranian broadcasts made by 'anti-Iranian groups'." DPA continued, "These broadcasts have been suspended since Thursday (7th December), the day the agreement was reached between East Berlin and Tehran."

However, the BBC Monitoring Service, confirming information from other sources, commented, "As far as it can be established no Persian broadcasts emanate from East Germany and recent observations show that there has been no change in the pattern of known anti-Iranian clandestine stations."

The only plausible reason the GDR would agree to such a restriction is that the Iranians insisted upon it and that the GDR, yearning for diplomatic recognition, finally decided to cease arguing the point and insert it in the treaty, even if it made little sense.

However, the Iranians thought it made sense and not long thereafter accused the GDR of not living up to the spirit of the agreement; the Iranians charged that "Radio Courier of Iran" had simply been dismantled from its "site" in the GDR and reactivated at a new site somewhere in Iraq.

Our own observations strongly suggest "Radio Courier of Iran" has not moved from its former site, regardless of where it was. So why have the Iranians persisted in this line of reasoning?

One theory suggests that the strong CIA presence in Tehran is responsible.

According to this line of reasoning, the CIA deliberately provided erroneous information on the "Radio Courier of Iran" site to discourage improved relations between Iran and the GDR, which the U.S. has consistently refused to recognize as a legitimate government.

Another school of thought feels that the Shah -- a shrewd fellow by all accounts -- is simply bluffing while playing a very hard hand of unorthodox diplomatic poker against the Soviet Union.

Either way, the dispute is still simmering, ready to boil over whenever the Shah chooses to stoke the fire.

Half-Dozen Clandestine Stations Operating Today

All the anti-Shah clandestine stations appear to be located in Iraq, the U.S.S.R., and Bulgaria; as one would expect, they take either a pro-Moscow or Islamic stance. None takes a pro-Peking stance, as the Chinese are very friendly with the Shah (however, one branch of Tudeh -- the "Maoist Revolutionary Organization" -- is Maoist in principle, but doesn't follow the Chinese foreign policy line).

Although we don't know as yet which organizations control which anti-Shah clandestine stations (except "Radio Courier of Iran"), we do have information on the stations and most of the organizations.

The anti-Shah organizations include:

- Tudeh: Pro-Moscow Communist (see story); large, now banned in Iran; operates "Radio Courier of Iran".
- Iran Liberation Organization: Stresses Islamic fundamentalism and conservative politics, although Tehran tries to picture it as Marxist.
- Maoist Revolutionary Organization: Small, not very active at present; ideology is Marxist revolutionary of the Maoist genre.
- (name not presently available): An offshoot of Tudeh with Marxist revolutionary leanings, but known to disapprove of terror tactics; small, but active, it broadcasts clandestine.

estinely from a site near Baghdad.

The six stations known to be broadcasting currently follow; any of them is liable to be jammed (often by nonstop music) by "Savak", the Iranian secret police. Except for "Radio Courier of Iran", these stations tend to change frequencies from time-to-time.

Although verifications from these stations are almost unheard of, one might succeed by contacting local Iranian students or student organizations. Although many of them are tight-lipped, due to fear of the U.S. immigration authorities, some may be able to provide useful leads.

IRANIAN REVOLUTIONARIES RADIO ("Radio-ye Enqelabiyum-e Iran"): First traced on January 13, 1973, by Ernie Behr, who feels it commenced broadcasting a week or so before then, this Iraqi-based station broadcasts politically-leftist programs.

1900-2000 Farsi 9555v kHz 1445-1545* Farsi 9555v kHz *repeat of 1900 program
ID: Farsi: "Injá Radio-ye Enqelabiyum-e Iran". V.: policy not known.

NATIONAL VOICE OF IRAN ("Seda-ye Mellî-ye Iran"), a/k/a VOICE OF THE IRANIAN PEOPLE:

Broadcasting pro-Communist (Moscow), anti-Shah programs via the facilities of Radio Baku, U.S.S.R., this station was first noted in April, 1959.

1730-1745 Farsi 6025 kHz
1745-1800 Azerbaijani 6025 kHz
1800-1815 Farsi 6025 kHz

ID: Farsi: "Injá Seda-ye Mellî-ye Iran". V. policy not known.

RADIO COURIER OF IRAN ("Radio-ye Peyk-e Iran"): Easily-heard station of the Tudeh

("Masses") party of Iran (see story), transmitted on 9560 kHz (50 kw) via the facilities of Radio Sofia, Bulgaria, and 11695v kHz (100 kw) from a site somewhere in the Sofia area. Additionally, "Radio Courier of Iran" transmits on 11415 kHz (50 kw), possibly from a site in Turkmeniya or Azerbaydzhan in the Soviet Union.

1430-1500 Kurdish 9560*, 11415, 11695v kHz
1500-1530 Azerbaijani 9560*, 11415, 11695v kHz
1530-1620 Farsi 9560*, 11415, 11695v kHz
1620-1650 Kurdish 11415, 11695v kHz
1650-1720 Azerbaijani 11415, 11695v kHz
1720-1810 Farsi 11415, 11695v kHz

*9560 not listed by Rumén Pankov of Sofia

ID: Kurdish: "Peyk-e Iran Sohongliak"; Azerbaijani: "Danishir Peyk-e Iran Radyosu"; Farsi: "Injá Radio-ye Peyk-e Iran". S/on: brief orchestral march. S/off: gives Stockholm address, then off with no music. V.: not wanted, but formerly verified rarely from Tudeh, Postbox 4176, Stockholm 4, Sweden.

VOICE OF IRANIAN FREEDOM LOVERS ("Seda-ye Azadikhanan-e Iran"): First traced January 21, 1972, under the rubric "Voice of Iranian Liberation", this politically-leftist station intersperses talks with musical interludes. Although the site is not known, it may utilize the facilities of Radio Baku, U.S.S.R.

1600-1620 Farsi 7210 kHz 1030-1050* Farsi 7210 kHz
1620-1640 Kurdish 7210 kHz 1050-1110* Kurdish 7210 kHz
1640-1700 Azerbaijani 7210 kHz 1110-1130* Azerbaijani 7210 kHz

*repeat of 1600-1700 transmission

ID: Farsi: "Injá Seda-ye Azadikhanan-e Iran Ast". S/on: brief musical interlude. S/off: brief march. V.: policy not known.

VOICE OF IRANIAN KURDISTAN ("Denge Kurdistanî Erana"): This Kurdish-nationalist station, broadcasting via the facilities of Radio Baghdad, Iraq, has transmitted anti-Shah programs since early 1973.

1400-1420 Kurdish 9630 kHz
1710-1730* Kurdish 9630 kHz

*repeat of 1400-1420 transmission

ID: Kurdish: "Denge Kurdistanî Erana". V.: policy unknown.

VOICE OF THE UNITED FRONT OF THE PEOPLES OF IRAN ("Seda-ye Jebhe-ye Mattahed-e Melal-e Iran"), a/k/a VOICE OF THE FRONT OF THE UNITED NATIONALITIES IN IRAN ("Saut Jabhat al-Qaumiyat al-Muttahidah fi Iran"):

First traced by the BBC Monitoring Service or an allied agency on March 19, 1973, this Iraqi-based clandestine broadcasts anti-Shah, anti-Bhutto programs and claims to be "the mouthpiece of all the toilers and strugglers from the various fraternal nationalities in Iran".

1500-1520 Farsi 9598v kHz
1520-1540 Arabic 9598v kHz
1540-1600 Baluchi 9598v kHz

ID: Farsi: "Injá Seda-ye Jebhe-ye Mattahed-e Melal-e Iran"; Arabic: "Huna Saut Jabhat al-Qaumiyat al-Muttahidah fi Iran". V.: policy unknown.

Those who made this writeup possible include (alphabetically): BBC Monitoring Service; Ernie Behr (Canada); Gregg Calkin (Spain); Bernard Chenal (France); Victor Goonetilleke (Sri Lanka); Don Jensen; NBC News (Chet Huntley & David Brinkley); The New York Times (Bernard Weinraub et al.); Rumén Pankov (Bulgaria); Roger Savory (Canada); Alvin Sizer; "Sweden Calling DXers"; The Washington Post (Jim Hoagland); and Richard Wood (via "Numero Uno").

TURKISH CLANDESTINES

"OUR RADIO": New Details on This Powerful Station

It's not often a clandestine is audible throughout the world, but "Our Radio" ("Bizim Radyo") is one such station.

Thanks to Rumen Pankov of Sofia, Bulgaria, we now have fresh and heretofore unrevealed details on this station, operated by the Turkish Communist Party (pro-Moscow).

First traced by the BBC Monitoring Service or an allied agency on March 21, 1958, "Our Radio" now broadcasts two separate Turkish-language programs several times daily to Turkey.

Recent monitoring suggests that Program 1 (6200 & 9585v kHz) emanates from Romania, while Program 2 (5915 & 9500v kHz) is broadcast from a site in the German Democratic Republic (GDR).

A powerful sister station, "Voice of the Turkish Communist Party" (see below), is also located in the GDR, but beams its programs to Turkish expatriate workers in the Federal Republic of Germany.

The Turkish authorities use nonstop music and the usual jammer hash to deliberately interfere with some of the transmissions of "Our Radio".

0600-0650	Program 1	9585v kHz	1640-1710	Program 1	9585v kHz
0600-0630	Program 2	9500v kHz	1740-1805	Program 1	9585v kHz
0810-0840	(Sun. only)		1910-1925	Program 1	9585v kHz
	Program 1	6200 kHz	2000-2030	Program 2	5915 kHz
1015-1045	Program 2	9500v kHz	2005-2020	Program 1	6200 kHz
1050-1115	Program 1	9585v kHz	2030-2100	Program 2	5915 kHz
1445-1515	Program 2	9500v kHz	2120-2155	Program 1	6200 kHz

ID: Turkish: "Burası Bizim Radyo". INT-SIG: 9 notes from a Turkish xylophone, then ID. V.: reportedly verified once via the Turkish Communist Party, Budapest, Hungary.

VOICE OF THE TURKISH COMMUNIST PARTY ("Türkiye Komünist Partisinin Sesi"): As indicated above, this station is related to "Our Radio" and shares a 250 kw transmitter at Magdeburg in the GDR with "Voice of the Emigrant" and "Voice of Greek Democrats Abroad"; all three clandestine stations beam their pro-Communist programming to expatriate workers in the Federal Republic of Germany.

2030-2100 Thursdays in Turkish 908 kHz

ID: Turkish: "Burası Türkiye Komünist Partisinin Sesi". INT-SIG: chimes, then Turkish music. S/off: "Internationale". V.: policy unknown, but can try as per "Our Radio".

Thanks to the following contributors to the Turkish section (alphabetically): BBC Monitoring Service; Ernie Behr (Canada); British Association of DXers; Bernard Chenal (France); Carol Feil (Denmark); & Rumen Pankov (Bulgaria).

"VOICE OF PEACE" WARMLY RECEIVED IN ISRAEL

According to various reports, the "Voice of Peace", which was off the air for 5 days in late June, is being enthusiastically accepted by a number of Israelis, some of whom have raised funds for it. Although the response from the Arab audience has been disappointing, Radio Cairo's "European Program" on 557 kHz from 0500-2200 may possibly have reacted by broadcasting heavy rock and "underground" music, complete with lively jingles.

Recent reports suggest both 25 kw transmitters (see July "Clandestine Bulletin") are now operating in parallel on 1540 kHz, which has resulted in the "Voice of Peace" being heard more clearly. The schedule is apparently 1100-2400 Sunday-Friday and 0800-2400 Saturday, including Arabic from 1900-2000 and Hebrew from 2000-2100, probably followed by English and French-announced pop music.

Due to increased use of 1546 kHz by European private and public broadcasters, Gregg Calkin has suggested 1542 or 1543 kHz would be preferable to either the once-proposed 1546 kHz or the currently-used 1540 kHz.

Finally, as "Clandestine Bulletin" first reported in the June, 1973, issue of FRENDX, the "Peace Ship" contains on board a ham SW transmitter. This transmitter was finally put into regular operation on June 30 in the 40 meter band (7,000-7,150 kHz) with the call HPLPAX. According to the BBC Monitoring Service, the station "would encourage operators in the Lebanon and Jordan, in particular, to tune-in and extended an invitation to King Hussein to participate." Incidentally, amateur radio friends of King Hussein inform us he still uses his Drake R-4B receiver during the rare moments he has time to DX.

Contributors (alphabetically): BBC Monitoring Service; Gregg Calkin (Spain); John Campbell (England); David Crystal (Israel via SCDX); Jeff Goldner (England via DSWCI); & Ed In-singer.

"RADIO FREE AMERICA": THAT WAS THE SHIP THAT WASN'T

As has been widely reported in the lay and broadcast industry press, Dr. Carl McIntire's radio station, WXUR-AM/FM in Media, Pennsylvania, was taken off the air by the Federal Communications Commission -- nominally for failure to keep proper logs, but actually for failure to adhere to the "Fairness Doctrine", which requires competing sides of a controversial issue to be aired.

Rev. McIntire, a highly-determined political and religious conservative fundamentalist, "

FLASH
SEE
PAGE
LR-4

operated WXUR for years basically as a vehicle for his unorthodox views, throwing in only for a time the equally-leftist "Marvin Burak Show" as a "balancing" technique. Various religious, political and civil-rights groups protested to the FCC, the matter was adjudicated up to the Supreme Court, and WXUR was finally forced off the air at midnight, local time, July 5.

However, McIntire insisted he would not be silenced and that he would inaugurate a "refugee station" -- "Radio Free America" -- about July 19, 1973. Since then the curious have tuned about, only to find nothing.

What happened? We launched our own local investigation to see.

As it turned out, Dr. McIntire's organization appears to have made no serious effort so far to locate a suitable ship or broadcasting equipment, mainly because of financial difficulties and pending litigation.

There is an outstanding \$450,000 mortgage on his seminary property for WXUR. Also, his small band of largely-unprosperous followers has just been drained of \$300,000 in legal and related expenses to try to keep WXUR on the air.

Additionally, WXUR-related litigation is still taking place and so long as such litigation is active, the FCC is prohibited from assigning WXUR to another owner.

With no money, few available funds, a large debt, and the hope WXUR may be reactivated, it is hardly a wonder the "refugee ship" never appeared. Based on our own calculations, it ought to be well into 1974 before such a scheme could get underway, even if Dr. McIntire leases -- rather than buys -- the ship, which he now claims he can do.

Although there have been suggestions that "Radio Free America" will broadcast on AM, FM, or whatever, his organization seems to have no fixed feelings on this subject as yet. However, McIntire has expressed interest in reaching large numbers of listeners, so shortwave is not entirely out of the question.

If you wish to pursue this topic further, contact Rev. McIntire at the Faith Theological Seminary, Collingswood, New Jersey.

Of course, "Clandestine Bulletin" will continue to keep you advised of any new developments concerning "Radio Free America".

Thanks to Jimmy Jones for sharing his information with us.

RADIO RED FLAG ACTIVE WITH NEW SCHEDULE

Despite published reports to the contrary, Tokyo DX ace Lars Rydén finds "Radio Red Flag" still active and using the same Chinese identification on 995 kHz, although with a new schedule.

This powerful anti-Maoist "black" clandestine -- pretending to represent insurgent forces within China, but actually operated by the Soviet KGB from a site probably in the Khabarovsk-Vladivostok region -- has been noted in Chinese for several years...heavily jammed, of course. It signs on and signs off suddenly, with no musical fanfare, and ID's, "Che-ben shi Hung Chi Kwangpo Tientai" ("This is Red Flag Broadcasting Station"). As is the case with virtually all "black" clandestines, verifications are not given out or acknowledged. The latest schedule is:

1130-1143 995 kHz 1230-1243* 995 kHz 1330-1343* 995 kHz

*repeat of 1130-1143 transmission

Our thanks to Lars for this update...and best wishes with the new SPR-4 receiver.

INSURGENTS SEIZE RADIO STATIONS THROUGHOUT SOUTH AMERICA

Recent commandings of once-legitimate radio stations in Chile, Uruguay, and Argentina have turned this volatile region into one of the most active for hearing history-in-the-making via clandestine radio.

Although the Uruguayan unrest was quickly settled, by mid-June of this year 10 Argentine stations* had been seized by anti-Peronist groups and the only active station in Rancagua, Chile, had been taken over by the wives of striking copper miners.

Now, fresh information indicates the striking Chilean truck owners have joined in, too, with their militant wives and daughters having recently "seized" 8 radio stations in one week, including "Radio Nuevo Mundo" in Santiago**, which is listed as having an active MW outlet on 930 kHz (10 kw) and inactive shortwave transmitters on 5955 kHz (1 kw) & 11740 kHz (5 kw) -- either of which could presumably have been reactivated, except that the Government cut the power supply. Informed sources suggest, however, that the recent Chilean "seizures" were actually done in collusion with the stations, which are anti-Allende anyway.

The Chilean clandestines can be identified by the nearly-exclusive use of female announcers reading statements such as (monitored last week), "What we are fighting for is freedom -- the freedom of truckers and all private enterprise which is threatened by Allende's Marxist Government."

Our particular thanks to George Schnabel, who has been following the Latin American clandestine radio scene closely; also, El Tiempo (New York) and The New York Times (Marvine Howe & Jonathan Kandell).

*Among them Radio El Mundo, 1070 kHz, 110 kw; Emisora Mitre, 690 kHz, 50 kw; Radio Antárvida, 1190 kHz, 5 kw; Radio Splendid, 1230 kHz, 15/5 kw; Radio Cerealista, 1160 kHz, 10/5 kw; & Radio Rosario, 830 kHz, 10/5 kw. Insurgent ID's included "Radio 11th of March", "Radio Falkland Islands", and "National Liberation Radio".

**Plus 2 in Valparaiso and others in Melipilla, San Fernando, Talca, Los Andes, and Los Angeles.

QSL Report

NEW ADDRESS!
Larry Yamron
P.O. Box 5103
Pittsburgh, Pa.
U.S.A. 15206

Phone: (412) 361-6832

Deadline: 12th of month.

-VERIE INTERESTING!-

Please make note of the new address of QSL REPORT (above) all other correspondence should be sent to my home address: 6830 Linden Lane, Pittsburgh, Pa. U.S.A. 15208

The following addresses which are not found in the 73 WRTVH should be useful to all QSL collectors. Radio Tesultan, Barrio San Marcos, Coban, Alta Verapaz, Guatemala. Radio Iran (address change) P.O. Box 33-200, Foreign Programs Dept, Tehran, Iran. OAS (Organization of American States) 17th and Constitution Ave, N.W. Washington, D.C. Ecos de Puerto Martinez, Oswaldo Martinez Chaverra, Cra. 5a N 30-54, Quibdo, Choco. Colombia

-SCOREBOARD NEWS-

Scoreboard will be postponed until further notice due to some changes. Fred Willshaw will become the new scoreboard editor and scoreboard will probably be done by computer!!! (what will they think of next?) Watch QSL REPORT for further details.

SEPTEMBER-QSLS RECEIVED-SEPTEMBER

Mr. David Ball of Canada reports a verie from Lebanon (finally!) so apparently the QSL drought from Lebanon is over. Hiroatsu Matsuura of Japan has received the first verie from the new Radio Southern Highlands, Papua/New Guinea. (see QSL-3) Many other interesting QSLS from Brazil, Guatemala, Peru, and two verifications from O.R.T.F. Reunion.

ALBANIA: R. Tirana, 7300, folder card in 5 months, no return postage. (?) full data card in 96 days for 1 IRC. (Ross)

ALGERIA: RTVA, 17790, card, sked, and report form, 87 days sea, 1 IRC. (Schwartz)

ANGOLA: A Voz de Angola, full data card in 3 months, EE report, (Martin)

R. Clube do Lobito, 4937, jungle scene card, air in 3 weeks, PP report. (Padula)

ARGENTINA: RAP, 9690, card in 5 months, EE report, 1 IRC. (Carlsen) 9690, card in 76 days, for mint stamps, not used. (Brook) 5 months, 2 IRCs. (Ball) 11710, 7 months air, 3 IRCs, (Strauss) 11710/9690, full data, sea mail, 6 months, no IRCs. (Fino)

ASCENSION IS: BBC, 9510, card w/site typed in, 3 months, no IRCs. (Nebron)

ASIATIC S.S.R: R. Moscow, 15100, Khabarovsk, 1 1/2 months. (?) same. (Barto) 11720, Chita, 15240, Nikolayevsk, 6050, Irkutsk, cards w/sites in 3 months, and U.S.S.R. map. (Barto)

AUSTRALIA: R. Australia, card w/full data in 96 days, 3 IRCs. (Stephens) 9580, flower card in 1 month, 1 IRC. (Carlsen)

ABC, Lyndhurst, 5995, card w/all data, 157 days sea, no IRCs. (Burlew) 9680, full data map card, 12 days air, no return postage. (Eichenhorn)

ABC, Brisbanen, 4920, Domestic SW network card w/full data, 3 weeks. (Ball)

BANGLADESH: R. Bangladesh, 15520, plain card w/full data, 19 days air, no IRCs. (Estes)

BELGIUM: ORU, 15235, map card and pennant, 24 days. (Rappel) 15235, all data except time, 3 weeks air. (Peters) 9655, card w/all data except time, 23 days, no IRCs. (Ross)

BOLIVIA: R. Altiplano, 5045, card w/data and freq. 2 weeks for SS report and mint stamps. (Carlsen)

BOTSWANA: R. Botswana, 4845, card (printed in U.K.!) w/freq. only, 21 days, 2 IRCs. (Bruce)

BOUGAINVILLE IS: R. Bougainville, 3322.5, PNG folder map, all data, 19 days, 1 IRC. (Behr)

BRAZIL: R. Clube de Varginha, EE letter w/veri statement but no details, 8 months. (Martin)

R. Clube de Pernambuco, card w/no data except veri. statement, 3 weeks, EE report, and mint stamps. (Martin) 6015, card in 6 weeks. (Barto)

R. Clube Ribeirao, veri. letter w/station sticker, 28 days, 1 IRC. (Austin)

R. Cultura da Bahia, 9595, areogram QSL w/date and freq. 3 1/2 weeks for mint stamps and PP report. (Orcutt)

R. Difusora de Pocas de Caldas, EE letter in 1 month, no return postage. (Martin)

R. Globo, full data card in 3 months, EE report and mint stamps. (Martin)

R. Dif. Do Amazonas, 4805, v/s. N.R. Porto, 8 weeks, 1 IRC. (Barto) sorry out order

R. Olinda, 3375, v/s. Josilda Cavalcante, 6 weeks, 1 IRC. (Barto)

Emisora Piratininga, letter in 3 weeks for EE report, no IRCs. (Martin)

R. Nacional de Brasilia, 15445/11720, card w/date and time only, 25 days for 2 IRCs. (Bruce)

BRUNEI: R. Brunei, 7215, full data map card in 30 days, after 2nd f/up, 4 IRCs. (?)

BULGARIA: R. Sofia, 9700, card w/full data, 2 months sea, no IRCs. (Johnson)

EYELORUSSIA S.S.R: R. Moscow 9655, card w/full data and site, 3 weeks, no IRCs. (Orcutt)

CAMEROON: R. Cameroon, Buea, 3970, prepared QSL returned w/official stamp, signature, and short message, "We are glad that you could receive us" 20 days, 2 IRCs, pop record. (Bruce)

CANADA: R. Canada Int, 9635, map card, 1 month. (Meehan) 5970, map card in 2 months, no IRCs. (Eichenhorn)

CBC Northern Svc. 9625, f/data card, 25 days. (Ross) 9625, 1 month, no IRCs. (Mayer)
CPCX, 6005, card w/freq. and date only, 8 months. (Carlson) photo card in 3 months
no IRCs. (Behr) card w/date and freq. only 285 days, 1 IRC. (Mayer)

CHNX, 6130, card w/freq. only, 9 days for stamp. (Ball)

CKZM, 6160, St. Johns, card w/all data except time, 8 days air, 1 IRC. (Henderson)

CENTRAL AFRICAN REP: Bangui, 5035, f/data form letter in 7 months sea, EE report, 2 IRCs,
(Johnson) letter w/full data explaining QSL cards not yet printed, 4 months, FF report, 2
IRCS. (Ball) full veri. w/skcd, 99 days for EE report, 3 IRCs. (Burlaw)

CHINA: R. Peking, card w/freq. and date. (Jeffery) card w/freq. and date, pennant, and sked
14 days. (King)

COLOMBIA: Emisora Nueva Granada, letter w/no data from v/s. Lucy Rodriguez, 1 month for
SS report and mint stamps. (Eichenhorn) 6160, letter in 16 days from above v/s. (Owika)

R. Guatapurí, 4915, letter from v/s. Glenix Peraza Moran, Sec. in 2 weeks, also
large 10th anniversary pennant. (Owika)

R. Nacional de Colombia, ship card w/full data in 15 days, SS report. (Stephens)
R. Santa Fe, 4965, card w/ veri statement but no data, 31 days for SS report and
2 IRCs, pennant enclosed. (Ross)

R. Vision, card in 1 week for 2 IRCs. (Megyesy)

CLANDESTINE: R. Espana Independente, full data Picasso card in 3½ months sea, EE report to
Prague, reply from Paris. (Martin)

CONGO: RTVC, 4765, letter in FF, sked, and EE letter promoting EE svc. 10 weeks. (Padula)

La Voix de la Revolution Congolaise, 15190, form letter w/full data in 2 months
for 2 IRCs and FF report. (Ball)

COSTA RICA: TIPC, 9645,
plain card in 13 days.
(Meehan)

CUBA: Voice of Vietnam,
9680, card from Havana
w/full data in 19 months
no IRCs. (Ball)

CYPRUS: BBC relay, card
with site typed in, 58
days, no IRCs. (Brook)
15420, card w/site, 1½
months. (Owika)

CZECHOSLOVAKIA: R. Prague
7345, mountain card in
2½ months, (Rappel)
5930//7345//9540, full
data card, 2½ months.
(Meehan)

DENMARK: R. Denmark,
15165, card w/all data,
11 days. (King)

DOMINICAN REP: R. HIN,
4910, flag card w/freq.
and date in 3 months for
SS report and mint stamps
(Orcutt) RTVD, letter and pennant and 65 days for post cards and mint stamps. (Austin
letter in SS, pennant, 3½ months for 2 IRCs. (Fino)

ECUADOR: HCJB, 11745, oil card w/all data, sked, 92 days sea, no IRCs. (Burlaw)

R. Luiz y Vida, 4845, letter from v/s. Hermana Amada Campos, 4½ months for SS
report and mint stamps. (Lohe)

R. Paz y Bien, card and letter w/all data in 1 month for SS report and mint stamp
-s. (Martin)

R. Rio Amazonas, 4870, letter in EE from Jim Hedlund, Eng. 4 months for mint
stamps. (Behr) full data letter from above v/s. 6 months air. (Henderson) 5½ months. (Barto)

EGYPT U.A.R.: R. Cairo, f/data card, letter, and sked, 3½ months air, no IRCs. (Johnson)
card w/full details, 34 days, 1 IRC. (Bruce)

EL SALVADOR: YSS, card, pennant and tourist info. 98 days, mint stamps. (Austin)

ENGLAND: BBC, 9410, red anniversary card w/all data!!! after 4 f/ups, total 7½ months,
(tougher to QSL than Burma! hi) (Behr) patience pays, ed.

ETHIOPIA: ELTF, 15250, blue card w/full data, 19 days air, 2 IRCs. (Schwartz) 15190, card
w/full data in 17 days for 3 IRCs. (Bruce) 15250, card w/full data in 2 weeks, no IRCs.
(Megyesy) 7165, personal letter from Bernhardur Gudmundsson, audience relations ofc. 5
weeks air, My best ever ELTF QSL, as reception via long path, noted very rarely here by
this propagation mode. (Padula)

FINLAND: R. Finland, 15185, f/data card in 1 month air. (Eichenhorn)

FRANCE: O.R.T.F, 15135, EE report for SS and PP program, personal letter from J. Supervie
-lle air in 11 days no return postage. (Fino)

الإذاعة والتلفزيون الجزائرية
RADIODIFFUSION - TELEVISION ALGERIENNE

Q. S. L.



Rapport - Report 22.4.73

Fréquence - Frequency 17790

H. GMT 1700/1800

تقرير
الذبية
التوقيت



DEPARTMENT OF INFORMATION AND EXTENSION SERVICES

Telegrams ADCAST
Telephone 59 1137
Our Reference 6/8/7 Makarai

Government Broadcasting Station,
Radio Southern Highlands,
P.O. Box 104,
MENDI.....S.H.D.

Mr. Hiroatsu Matsuura,
3442 Codoshukusha,
Gotenyama-minami-machi 4,
Hirakata-shi, Osaka 573,
JAPAN.

19th July, 1973

RE: RECEPTION REPORT

Dear Mr. Matsuura,

We apologise for the long delay in verifying your reception report of Radio Southern Highlands.

I would like to extend on behalf of the Staff of Radio Southern Highlands our thanks to you for receiving our signal.

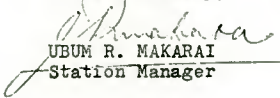
It is quite obvious that you are the first person in Japan to receive our signal. You picked up the station 3 days after we had initially commenced our test broadcast. The first time we ever went on air was on 4/6/73.

Radio Southern Highlands is one of the 3 new stations being established by the Government of Papua New Guinea. The other two are Radio New Ireland which will appear on 2428 khz and Radio West New Britain which will appear on 2340 khz in the 120 mb, in the near future.

So far the second person in Japan to receive our signal is Mr. Nobuaki Takahashi of Koishikawa, Japan.

We apologise again for the delay but otherwise thank you so much for your report and this letter endorses that your reception was correct.

Yours sincerely,


UBUM R. MAKARAI
Station Manager

Radio Southern Highlands is currently operating on 3275 khz. power unknown at the present time. This station should be audible in North America by the time the low-band Dx season begins, no?...ed.

GALAPAGOS IS: La Voz de Galapagos, 3520, personal letter from v/s. Jorge Navarez, advising that he is now at the Franciscan Mission on Isabela Is, and no longer connected with the station. He will be missed by Dxers. (Behr) veri. letter w/all data and pennant, 2½ months for mint stamps. (Orcutt)

GERMANY G.D.R: R. Berlin Int, 9730, card in 57 days. (Rappel)

GERMANY G.F.R: Deutsche Welle, 6040, multicolored card w/all details, 9 months, no IRCs, (Estes) 6040/15275, olympic card in 8 weeks. (Barto)

GHANA: R. Ghana, 9545, card w/full data, 68 days air, 1 IRC. (Schwartz) 9545, full data card and sked. 4 months, no return postage. (Pino)

GREECE: VOA, Kavala, 7270, card in 2 weeks. (Eichenhorn) 11960, card w/no freq. or time, 28 days, no IRCs. (Brook) 11805, card in 40 days. (Matsaura) 7170, 6 weeks. (Sellers)

GUATEMALA: La Voz de Guatemala, 6180, full veri. for SS report presented at station in person, v/s. Rodolfo Chenal Luna, Subdirector, address change: 5 av. 13-18 (21) (Lohe)

R. Chortis, 3380, SS letter and pennant from v/s, Byron Randolph Vásquez Paiz, for SS report and f/up from Guatemala City, 3 weeks, mint stamps. (Lohe)

R. Cultural, TGNA, 5955, Quetzal card, 2 months. (Meehan) 9505, card in 7 month for 1 IRC. (Carlsen)

R. La Voz de Atitlán, 2390, SS letter from v/s. Juan Ajtzip Alvarado, locutor (announcer) and president, submitted report while visiting station. (Lohe)

R. La Voz de Nahualá, 3360, card w/data only and pennant, submitted report while visiting station. (Lohe)

R. Maya de Barillas, 2360, card w/full data from v/s. Loran W. Veith Jr., claims 3325 as 90 m band outlet, SS report and mint stamps, 1 month. report made in Guat. (Lohe) TGBA, 3325, full data Indian Warrior card for EE report, 10 months and apology for delay 1 IRC. (Mayer) see QSL below..ed.

RADIO MAYA de Barillas TGBA

Barillas
Huehuetenango
Guatemala, C. A.

Frecuencias:
2360 kc.
3325 kc.

Es grato confirmar su reporte del día 6 de julio de 1973, a las

18:10-18:55 horas, en la frecuencia de 2360 kc. Tuvo el gusto de escuchar el Programa trans-

mitido en lengua K'ánjobal. La señal escuchada fue difundida por medio

de un transmisor Collins de 250 vatios de potencia, utilizando una antena

Dipolo.

Loran W. Veith Jr.
Gerente

GUYANA: R. Demerara, studio card w/all data except time, 1 month. (Martin)

HONDURAS: R. America, 6150, letter and 2 pennants from Rodrigo Wong Arevalo, SS report sent in Dec 72, presented at station. Has left SW for good. (Lohe)

R. Progreso, letter w/all data and pennant from v/s, Jerry Tolle, 2 weeks for SS report. (Martin)

La Voz del Junco, 6075, card w/date only for report from Guatemala, v/s. A.S. Hasbun, SS report and mint stamps, 15 days air. (Lohe)

HRN, 5875, form letter w/ details typed in, v/s. Carlos E. Riedel, Dir. 9½ months for SS report and 1 IRC. (Sellers) all data except time, v/s. Alma Blanca Villeda, sec. SS report, 9 months, mint stamps. (Johnson) 4 weeks after f/up, v/s. Alma Villeda, Sec. pennant. (Barto) 108 days. (Austin)

INDIA: AIR, card w/all data, sked. 137 days air, 2 IRCs, (Burlaw) 11810, card w/all details in 4½ months air, 2 IRCs. (Sellers) 11775, full veri. card, 7 months, 3 IRCs. (Strauss) 9525, full data card from v/s. P.N. Virmani, 5½ months for 3 IRCs. (Yamron) 149 days, 2 IRCs. (Austin)

INDONESIA: (Java) RRI, Jakarta, 2450, card w/all details, air in 10 weeks. (Padula)

R. Agostine Junior, Jakarta, 2420, personal letter from Rumulutur Idris, Comm. dept, air in 5 weeks for Indonesian report, believe to be first veri. from this station anywhere in the world, (Padula) certainly a first for NASWA..ed.

RRI, Yogyakarta, 7110, standard RRI card with all details, sea in 14 weeks for EE report. (Padula)

(West Irian) RRI, Jayapura, 6070, EE letter from Soedarsono, sea in 10 months for EE report. (Padula)

INDONESIA: (Melasena) RRI, Amboi, 7440, card and letter in 12 days. (Kahman, who request -s further reports, 16 weeks sea, EE report. (Padula)
INTERNATIONAL WATERS: RNI, 6205, card w/no data in 11 weeks, 2 IRCs. (Ball) 102 days. (Ross)
IRAQ: R. Baghdad, card, 17770// 7225, cards w/incorrect freq. air in 5 months. (Padula)
 9745, card w/full data, 4 weeks air, 2 IRCs. (Bruce)

JAPAN: NHK, 17825, card in 12 days, no IRCs. (Earhart) 11965, temple card, 2 weeks, no IRCs. (Eichenhorn) card and sked, 2 weeks. (Estes) card and large poster, 2 weeks. (Meehan)
 NSB, 9595, full data green card, 2 weeks, 1 IRC. (Mayer)

JORDAN: R. Amman, 7155, card in 25 days air for 1 IRC. (Schwartz)

KAZAKH S.S.R.: Alma-Ata, 7240, card w/site from South Asian svc, 3 months. (Behr)
KOREA: R. Korea, 15335, card w/full veri. 1 1/2 months air, 1 IRC. (Eichenhorn)
KUWAIT: R. Kuwait, 15415, full data card, 2 1/2 weeks, no IRCs. (Orcutt) folder card in 21 days air, 2 IRCs. (Schwartz) card in 27 days. (Estes)

LEBANON: R. Lebanon, 9545, card w/full data in 3 months on 3rd try for duplicate EE and FF reports, SASE, used stamps and postcards. (Ball)

LESOTHO: Voice of Lesotho, 4800, full data flag card in 103 days sea, EE report and 2 IRCs.
LITHUANIAN S.S.R.: R. Vilnius, card in 4 months. (Carlsen) (Mayer)

MALAWI: M.E.C. Blantyre, 3380, mimeo letter w/details typed in, 31 days for 2 IRCs. (Bruce)
MEXICO: R. Universidad, 9600, letter and postcard w/date only from v/s. Ing. Santiago Avalos, 5 weeks air for SS report and mint stamps. (Lohe)

XERMEX, R. Mexico, letter and pennant, 6 months, 3 IRCs. (Strauss)

MONGOLIA: R. Ulan Bator, 11860, letter w/full data in 44 days air, v/s. Tuvdennyam, head of EE section. (Matsuura) letter and sked in 5 months. (Martin)

MOROCCO: RIM, card for Tangeir site, 2 months after f/up. (Dexter)

NEW BRITAIN: R. Rabual, 3385, full data folder card, wrong date, 22 days air, no IRCs. (Estes) 5985, air in 1 week for reception of daytime transmission, heard in Queensland, (Padula) a 1st for this freq?...ed.

NEW GUINEA: R. Goroka, 2410, data sheet w/full veri. v/s. A.L. Phillips, 17 days air for 2 IRCs. (Matsuura)

R. Kundiawa, (former R. Chimbu), 2376, data sheet in 19 days air, 3 IRCs. (Matsuura)

R. Southern Highlands, 3275, v/s. Ubum R. Makarai, station manager. (Matsuura) see QSL-3...ed.

R. Western Highlands, (Formerly R. Mt. Hagen)

2450, letter and data sheet w/full veri. 17 days air for 2 IRCs. v/s. Brian Merret, Station Mng. (Matsuura)

R. Wewak, 3355, folder map w/all data, 2 1/2 months, 1 IRC. (Behr) folder map card w/date and freq. only, 146 days air, 1 IRC. (Mayer)

NICARAGUA: R. Atlantico, 6120, v/s. C.A. Castillo, SS report in 5 weeks for 1 IRC. (Barto)

R. Mar, 9581, letter in 5 months from Ricardo Perez Ulloa, 1 IRC which came back stapled to back of envelope! (Cwikla) SS veri. letter, stated that mine was first report from Canada, 5 months. (Behr)

NEW ZEALAND: RNZ, globe card in 137 days, w/full data, 3 IRCs. (Stephens) 15111, full data card, 64 days sea, no IRCs. (Schwartz) sorry out of order!...ed.

NIGERIA: VON, Ikorodu, 15120, card in 3 weeks. (Cwikla)

NBC, Maiduguri, 6100, white card in 1 month. (Cwikla)

NBC, Sokoto, 6195, white card in 3 weeks air. (Cwikla)

PAKISTAN: R. Pakistan, 11672, brief letter from Imaduddin, Controller Planning and research, sked, 32 days air mail, no return postage sent. (Schwartz)

PAPUA: New station MENDI, 3275, letter from Ubum R. Makarai, station manager. (Padula) station is now "Radio Southern Highlands"...ed. R. Southern Highlands, 3275, letter in 18 days after f/up, 3 IRCs. (Matsuura) station under New Guinea was incorrectly listed...ed.
 ABC, Port Moresby, 4890, map card w/full veri. 36 days air, 2 IRCs. (Matsuura)

PERU: R. del Pacifico, 9675, card w/date and time only, v/s. Lorne Kliever, 7 months for SS report after f/up, mint stamps. (Lohe)

R. Arequipa, directors business card w/thank you note and pennant in 3 weeks for SS report and SASE used. (Martin)

PHILIPPINES: PBS, 3286, letter w/full veri. in 24 days air for 1 IRC, v/s. Alejandro Laragan, Broadcast operations chief. (Matsuura)

POLAND: R. Warsaw, 11815, full data map card, sked, and pennant, 1 month air, no return postage. (Johnson) map card w/full data, 6 weeks for mint stamps. (Estes)

PORTUGAL: R. Portugal, 11840, world map card in two weeks. (Meehan) map card in 12 days no IRCs. (Nebron) 14 days, 1 IRC. (King) 12 days (Stephens).

Radio Free Europe, 11725, card in 9 days, no return postage. (Brock)

REUNION: O.R.T.F. 2446, form letter w/all data, 96 days air for 2 IRCs. (Mayer) 2446, letter for FF report and 3 IRCs, 6 weeks air. (Insinger) great!...ed.



La onda de la Alegría!!
 A LOS KILOS ONDA CORTA

Emisora
 Atlántico

1070 KILOS ONDA LARGA
 10.000 VATIOS



SAM BARTO
 BOX 402 B RD#1
 MORRIS, CONN. 06763

Dear Sir:

We wish to thank you for your reception report. We have found it correct and hereby acknowledge with this verification letter.

Date of reception. 1/15/73... Time of reception GMT. 117.1131.

Transmission was heard on 4.870 KHz.

Our program schedule includes transmissions in three languages.

1045 GMT Begin a.m. broadcast with Quechua language programs
 1115 GMT Jivaro language programs
 1215 GMT Terminate broadcast

2000 GMT Begin afternoon broadcast in Spanish language programs until
 2200 GMT Jivaro language programs
 2300 GMT Quechua language programs
 2330 GMT Terminate broadcast

It is interesting to see listener reports come in since we went to 5 KW around Christmas of 1972. We appreciate your interest in our transmissions and invite you to listen again.

Sincerely yours,

JIM HEDLUND
 Jim Hedlund
 Station Engineer

JUNE 24, 1973

CASILLA 7, SHELL, PASTAZA, ECUADOR

RHODESIA: RBC, Gwelo, 3396, full data in 4 months for 1 IRC. (Barto)
ROMANIA: R. Bucharest, folk dancers card, 65 days for 3 IRCs. (Stephens) 11730, full data card, personal letter, sked., 86 days air, no return postage. (Schwartz)
RWANDA: Deutsche Welle, Kigali, blue/yellow map card in 6 months air. (Sellers) 9700, map card w/full data in 24 days, no IRCs. (Ball) 9735, card w/all data, 24 days, 1 IRC. (Bruce)
SENEGAL: R. Senegal, 4890, Cora card in 16 days air for EE report, no IRCs. (Cwikla) 7210, banjo card in 2 weeks, 2 IRCs for EE/FF report. (Eichenhorn)
S. AFRICA: RSA, 6000/6035, birds card in 2 weeks. (Padula)
 Springbok Radio, 3395, Industrial card in 8 days air. (Megyesy)
SPAIN: RNE, Noblejas, 15145, antenna card w/full data, 82 days sea. (Matsuura) cards in 30 days, no IRCs. (Schwartz) 14 days, 1 IRC. (Bruce) card, pennant, 15 days. (Nebron)

SWAZILAND: Swazi Radio, full data letter from Johannesburg in 12 days air for 2 IRCs, also poster, bumper stickers from station manager Stan Gobbi, (Johnson)

SWEDEN: R. Sweden, 11705, SCDX card, w/all data, 2 weeks air, no IRCs. (Eichenhorn)
9715, abstract card in 11 days. (Meehan)
11705, card in 10 days, no IRCs. (Nebron)
11705, SCDX card in 16 days, (Rappel)

SWITZERLAND: SBC, 15305, card in 5 weeks sea, no return postage. (Fino) 6120, b/w parade card, 2½ months. (Rappel) 15305, church card 38 days sea, no return postage. (Brock) 11715, full data card in 40 days, no IRCs. (Stephen)

TAIWAN: VOFC, 17780, green card w/full veri. in 17 days, 2 IRCs. (Bruce)

Armed Forces Net. 3990, multicolored card with all details, 15 weeks sea. (Padula)
TUNISIA: Radiodif. T.V. Tunis, 6195, card w/full veri. in two weeks for EE report from External Relations Dept. (Cwikla)

UKRAINIAN S.S.R.: R. Moscow, Vinita, card in 1 month. (Cwikla)

R. Moscow, Lvov, card in 32 days. (Cwikla)
R. Kiev, 11770/11900, card in 3 months with site. (Barto)

U. OF ARAB EMIRATES: Dubai Broadcasting station, 6040, card in 2 weeks after 2 f/up (Dexter)

URUGUAY: R. El Espectador, 11835, full data card in 4 months air for SS report and mint stamps. (Johnson)

VATICAN: Vatican Radio, 5995, painting card in 1 month for no IRCs. (Estes)

VENEZUELA: Radio Canaima, 6159 letter in 2 weeks air after f/up. (Dexter)

VIETNAM REP: VTVN, full data card, personal letter, air in 1 month for VV report and mint stamps, v/s, Pham-Hau. (Martin)

YUGOSLAVIA: R. Belgrade, 9620, 100 days air, no return postage. (Brock)

ZAIRE: R. Kinhasa, 15245, form letter in FF signed Mabumba Bulisi, Le Director Technique, 106 days air, 1 IRC. (Schwartz)

ZAMBIA: R. Zambia, 17895, full data card in 6 weeks air for 2 IRCs, requesting for more reports. (Johnson) 17895, card in 4½ months, f/up report, 2 IRCs. (Behr)

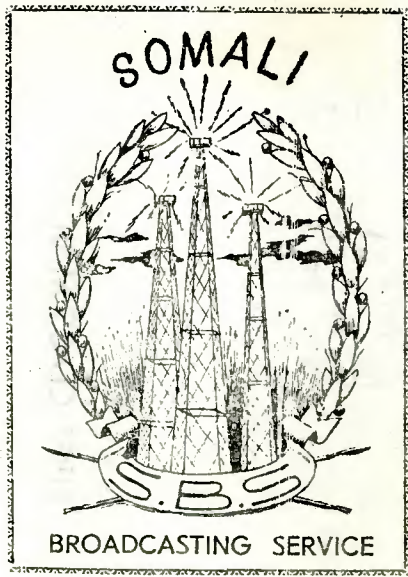
Many thanks to all who took time out to report this month. Due to a mix up with ye olde Postal Service the following contributors reports were not included in this months QSL REPORT, Al Sizer, Bill Sparks, Gregg Calkin, Ralph Perry, Scott Reeves, it wasn't your fault gentlemen! Received an interesting veri? why not send a copy (Clear) along to QSL REPORT for all to see! Please make note of new address of QSL REPORT: P.O. Box 5103, Pittsburgh, Pa. 15206.....The low-band Dx season is almost here so why not order foreign language report forms and be prepared! They are available in Spanish, French, Port, and Indonesian for 15 cents each in coin or stamps, Overseas 2 IRCs each, or airmail 4 IRCs each. Order now from: ED SHAW, NASWA REPRINT MANAGER, 621 BURLEIGH AVE., NORFOLK, VA. 23505. U.S.A.

THIS MONTHS 40 REPORTERS

M. Austin(CT) D. Ball(CANADA) S. Barto(CT) E. Behr(CANADA) P. Brock(CANADA) D. Burlew(PA)
R. Bruce(SCOTLAND) G. Calkin(SPAIN) B. Carlsen(OH) T. Cwikla(CT) G. Dexter(WI) S. Estes(VA)
S.W. Eichenhorn(MI) H. Fino(NY) J. Gendron(VA) D. Henderson(MD) E. Ininger(NJ) T. Jeffery
(OR) D. Johnson(CA) D. King(PA) E. Lohé(VA) H. Matsuura(JAPAN) K. Martin(PA) A. Mayer(IL)
L. Marshall(CA) J. Meehan(CA) D. Megey(NJ) L. Nebron(CA) F. Orcutt(NY) B. Padula(AUSTRAL)
R. Perry(IL) H. Peters(PA) J. Rappel(?) M. Ross(NY) R. Stephens(GA) H. Sellers(CANADA)
E. Strauss(NJ) A. Sizer(CT) B. Sparks(CA) C. Loudenboomer(NIBI-NIBI) how did that get in?

If you don't find it, keep look'in for it.....73's

Larry
Stron



73 from

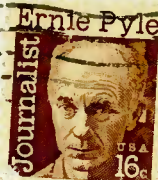
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So. Charleston, W. Va. 25303

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Unity and Friendship



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