

FRENDX

The S W B C journal

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official publication of

NORTH AMERICAN SHORT WAVE ASSOCIATION
P.O. BOX 989 ALTOONA, PA. 16603

ANNOUNCEMENTS, NEWS, NOTES

It has been said that "things will get worse before they get better". Let us hope such is not so. Yet what with the now heavy workload on Hdqs, even with the relief from Ed Shaw and certain of the other officers/editors who have helped many ways/times with mail and other extra burdens, outside QRM such as sickness and poor health, vocational pursuances, etc., we continue to face problems.

Your editor has been hard hit by the flu bug these past couple weeks, and too, word has been received from Log report editor, Jerry Berg, that he finds it necessary to be replaced due to vocational and personal commitments. This is indeed serious and yet we cannot but expect such happenstances. We can understand Jerrys' situation and although it will be a most difficult task finding replacement par him, we have faith and hope. A new LH editor must be found within the next few month. Keep your fingers crossed!

This month Ralph Ferry presents his first Shortwave Center section. It is a good effort and we are sure, provided he receives proper support, future sections will be interesting as well as useful and informative.

Next month the bulletin will contain ballot forms for voting new Board of Directors to office for two year term. We hope majority of members will take part in this most important matter. One of the first matters of business the new EOD will have before it is whether or not to do away with third-class mailing of bulletins, have only first-class service.

To those members who have ordered club rubber stamps recently, we are out of stock but have new supply on order and they will be filled as soon as received. We have lots of stationary that can be ordered from Ed Shaw; Price is \$1.50 per 50 sheets. And please note, all foreign language report forms should be ordered from Gregg Calkin. See CSL section for his address. Ordering from correct source will get you better service.

A few members ordered the '72 WRTH after the announced deadline; Said orders will be filled, but they may be late. Please be patient!

If you recently joined NASWA and have not yet received your 'new member packet' just hang loose; We are doing as best we can to get caught up with the mail load.

FOR WHAT IT'S WORTH - A MESSAGE FROM THE PUBLISHER PRO TEM

The two months publishing FRENDX have been difficult - I can't deny it. The physical labor alone of turning a crank 35,000 times each month still staggers my imagination even after having done it. That's only the beginning, too. Bulletins have to collated, folded, stuffed into envelopes, addressed and stamped. The load weighs hundreds of pounds. My purpose in these words is not to solicit sympathy, but to call for understanding when a bulletin is late. Bill Eddings has been at the helm of NASWA nearly eleven years, alone responsible for the publishing of FRENDX those endless months - rarely failing - and even then only when he collapsed over his work with a heart attack. The vast majority of you undoubtedly suspect the monumental task he has done. A few have given no thought other than the fact the bulletin was a few days late. Something could be done to alleviate the problem..... if we had the manpower. So far, volunteer responsible leadership has been little and infrequent. We are fortunate for our devoted and experienced editors who put in long hours each month, but the physical part of publishing doesn't draw a very big crowd. It takes a REALLY honest full two work weeks of 80 hrs. So, please keep this in mind. We aren't often late, but when we are, remember there was a good reason. Peace, Good DX and 73!

Edward C. Shaw

DISCOUNT TO THE MEMBERS!

Frank Jaggella, Harrisonburg, Virginia. Via Communications World.
 John Phillips, Insdale, Illinois. Via Communications World.
 Peter Hebble, Pennington, New Jersey. Via World Radio TV Handbook.
 Steven Futtman, Harrisburg, Penna. Via IS Communications Handbook.
 Stanley Sims, Chicago, Illinois. Via Communications World.
 Thomas Allman, Williamstown, Mass. Via WAAE Mags.
 Richard Fapp, Verona, Pennsylvania. Via Communications World.
 Neal Kolb, Tampa, Florida. Via Communications World.
 Victor G. Jaar, Montreal, Quebec, Canada. Via WAAE Mags.
 Steven Goldberg, Rochester, New York. Via DX Party Line/WCJB.
 Robert Anciaux, Minot AFB, North Dakota. Via Communications World.
 Joseph & Jeanette Avery, Wilmington, D.C. Via IS Communication Handbook.
 James Horkimer, Oxon Hill, Maryland. Via IS Editor Al Fielack.
 Roy Boyce, Hyattsville, Maryland. Via IS Communications Handbook.
 Sam Lee, Boise, Idaho. Via Elements Electronics.
 Elton Hewitt, Pocatello, Idaho. Via IS Communication Handbook.
 Chris Pavlik, Plantation, Florida. Via member Gary Tonere.
 Lenoy Sanson, Cedar Falls, Iowa. Via member Don Ferguson.
 Gene Malygo, Boardman, Ohio. Via Communications World.
 Tom Piotrowski, Liverpool, New York. Via Communications World.
 David Lury, Gayne, Michigan. Via IS Communication Handbook.

LIFE IS

Second year: Stephen Bass, Les Muggins, Henry Stafe, Richard Brown, Forester Isen, John Hoegenhoide, Bill Reynolds, Frank Adon, Charles Mohr Jr., Jerry Blake, Bob Poage, M. Steven Dildine Jr., Kent Berger, Mark Rogarth, Adrian Vath, Bill Baldwin, Hans Schulzsohn, Bob Kozionkowski.
 Third year: Charles Caharon, Bill Shultz, Audie Kaufman, Thomas Jones.
 Fourth year: John Hunter, Kris Lemna, Pete Taylor, Mrs. Mildred Marshall, Dave Victor.

Fifth year: Joseph Ray, Cliver F. Berrell, Steve Kamp, Charles Crokar, Bill Flynn, C.H. Stanbury II, Melvin Plannagen Jr., Geoff Gates, John Sonoff Jr.
 Sixth year: John Braz Jr., Les Nichols, Irving Johnson.
 Seventh year: Warren Nordgren, Steve Bohac.

(NOTE: Members joining or renewing after 15th of month will be listed next month.)

HOLEDAY HAND SERVICE

For sale: Drake 514 w/ISS speaker, xtal calibrator, amateur xtals and 3 marine xtals. Write Glenn Hinks, 1206 Ingewater Drive, St. Louis, MO. 63137.
 Wanted: Complete/accurate frequency graphs (S BC) for Hammarlund HQ180. Contact Ken Schnur, 2627 E. 28th St., Brooklyn, NY. 11235.
 Wanted: Copy of Science and Electronics magazines April-May 1969 and Nov-Dec 1969. Write Alan Benson, 518 Oak Hill Drive, Edwardsville, IL. 62025.
 For sale: Ameco 101-F preamp, set of trimm 600ohm headphones, Ameco H11 Jet preamp. Contact Andy Pappas, 10143 Calumet Ave., Chicago, IL. 60628.
 Wanted: Would like to hear from members who use the Allied 1625 receiver. Please write Frank Jaggella, 1046 Shenandoah St., Harrisonburg, VA. 22801.
 For sale: Heathkit G.5. Best offer takes. Contact Frank Michalenko, 1 Brook Street Central Falls, RI. 02863.
 For sale: Ameco 101-F preamp, Joynatch tuner, Heath xtal calibrator. Contact W. Sizer 22 Country Way, North Haven, Conn. 06473.

WORLDWIDE DXer

According to Awards Chairman Warren Nordgren, the following members have earned DX certificates;
 Worldwide DXer (125 countries) Jim Zabransky (75 countries) Paul Stersky, Ronald Howard, Charles Mohr, Irving Glasberg (50 countries) Dave Schmidt, Ron Bruns, ... Leonhardt.
 Continental DXer (3A 10) Jim Zabransky, Michael Letman (IA 13) Irwin Glasberg, Michael Letman (AA 38) Irwin Glasberg.
 Continental DXer Oceanic (11 countries) Jim Zabransky.
 Congratulations one and all. Each certificate earned is credit to your DXing ability. Continued luck/success.

The A.N.A.R.C. REPORTSPEEDX Interested in ANARC Membership:

An inquiry has been received from SPEEDX Director Art Glover concerning the possibility of ANARC membership for that organization. A membership application form and other information have been sent to Art.

European DX Council.

EDXC has a new member club, DX International of West Germany. The club was founded in 1970 and at present has 105 members. The club covers all areas of DXing, but especially shortwave. Their annual membership fee is 12.00 DM. President of the club is Bernd Kreh, and secretary is Heinz-Dieter Muerkoster. The club publication, WELLENREITER, is issued monthly with 12 offset-printed pages. None of the bulletin is in English. The club's address is D-71 Heilbronn, Faistst 12/1, West Germany.

DXers Subjected to Fraud Attempts.

The International Radio Club of America's D X MONITOR warns DXers of fraudulent schemes for obtaining money from them. A person or persons using the address, Mail's Office, GPO, Accra, Ghana, is attempting to obtain money from DXers with requests for small amounts of money to buy a radio. Those shortwave DXers who have sent reports to Radio Ghana seem to be the most likely targets.

And, D X MONITOR reports that DXers whose names and addresses have been published in the Radio Japan News and similar listener newsletters of other broadcast organizations have been subjected to various forms of attempted fraud.

DX Stamp Service.

As of January 1, 1972, DX Stamp Service has a new address: G. N. Robertson W2AZX, 83 Roder Parkway, Ontario, New York 14519. For those not familiar with this service, DX Stamp Service has, for several years, supplied DXers with current mint stamps of almost every country of the world--stamps which often would be difficult, if not impossible, to obtain from any other source.

In view of the recent devaluation of the U.S. dollar on the world market, it would probably be a good idea to get a current price list from DX Stamp Service before placing an order.

Clandestine Station List.

The Japan Radio Club has available a new listing of clandestine stations. The list includes frequencies and mailing addresses for the stations. It will be sent airmail for two International Reply Coupons. Requests should be directed to: Japan Radio Club, Terou Kataoka, 21-10, Koshien 7-Bancho, Nishinomiya 663, Japan.

In Next Month's Report: Results of balloting on the location of the 1972 ANARC Convention.

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

THE LOUDENBOOMER REPORT

Charlie's New Year's Resolutions

Like everyone else, ol' Charlie sits down each year and comes up with some worthwhile New Year's Resolutions. Unlike most everyone else, however, I keep mine! And I thought you might be interested in this year's crop. So, without further delay or suspense, here they are!

1. Send a birthday card to Mrs. Stepanova at Radio Moscow.
2. Find out Mrs. Stepanova's birthdate.
3. Try for Tristan every day.
4. Be nice to my mailman.
5. Get a new dog.
6. Get permission to go to Peking with the President.
7. Convince Deutsche Welle to put a relay station on Pitcairn Island
8. Get the VOA-Greenville verified
9. Expand my kit of disguises.
10. Finish my course in Urdu.
11. Get the 1971 WRTH and retire my 1964 Edition.
12. Put my antenna back up.
13. Buy 5,000 copies of "Swahili Broadcasts to South America" to include in next year's Christmas cards.
14. Discover the identity of Captain Glotz.
15. Land a column in a national radio hobby magazine.
16. Or, write a DX book.
17. Track down the Voice of The Golden Goblin.
18. Start a club for Marine Band DX'ers..there must be some in the Marine Band!
19. Get a ditto machine.
20. Get a magnifying glass so I can read that new Rapidx bulletin.
21. Mail the follow-ups I'm behind on, all 2,153 of them
22. Find my logging notes.
23. Finish wiring my Healthkit 2 diode receiver.
24. Find the instruction manual for the Healthkit.
25. Put together a tape of Paraguayan interval signals; offer it for sale.
26. Send a congratulatory note to the think tank experts who solved the numbers station mystery.
27. Get XGOY to verify again.
28. Publish a history of announcer turn-over at the Voice of the Austrian Navy.
29. Make sure this column appears in January.

Well gang, there you have them. You are welcome to check me out at the end of the year to see how I did. Good luck in keeping whatever resolutions you made and I'll see you next month if I have time to do a column what with all the activity I have planned.

101 Things A Bright Boy Can Do

...by Don Jenson

It seems to me that by and large, SWBC DXers do a good job when it comes to keeping tabs on what's being broadcast these days. Rare is the new station that comes on the air without being quickly identified. Rare is the frequency change that isn't noted and reported.... But it seems to me that one area we tend to neglect, particularly when compared with our medium wave (BCB) compatriots, is hobby research. I'm afraid we tend to stick with what we know and do little to develop new techniques of listening, dig out background data that could help with our listening, make use of some of the vast amounts of technical information available.

For example, in recent years the BCB phase of the hobby has come up with new antenna developments, such as the altiazimuthal loop, which is a tremendous improvement over the traditional standard air loops used for decades. Doesn't the SWBC phase of the DX'ing hobby have technically inclined persons who could come up with a similar breakthrough? And I don't just mean the tinkerer playing around with antennas... Surely there has been plenty of research by the military, by industry in the area of short-wave antenna design. Where is the SWBC DX'er who could have dug out this existing research and have applied it to the hobby? For the practical man who doesn't have the theoretical background to design, how about coming up with, say, a parallel to the Joystick that the enterprising DXer could build himself (at a fraction of the cost of commercially made models).

For those who aren't technically trained or gifted, there is other new ground to be broken. Why, for example, haven't SWBC DXers compiled the lists of stations operating in Latin American countries? BCB clubs regularly publish researched lists of Dominican stations; Ecuadorian stations, etc in their bulletins. The information must be there, from government sources or from station personnel at other outlets in the country-- or even from other DX publications.

What about propagation? How much do DX'ers know about those factors which determine when we can hear certain stations, and when we can't? We rely on basic, generalized propagation charts that show only favorable bands for reception from large geographic areas. Why not more specific data on when to tune for specific, rare DX targets? Isn't there someone who can do some in-depth probing and provide us the techniques we could all use?

It would seem that there is a wealth of material available in club bulletins, domestic and foreign, past and present, which (if compiled) would be of great use to DXers. Manual compilation of this data is not only tedious and time consuming, it is old-fashioned and unnecessary in a day of the computer and various other information retrieval systems. Several BCB clubs have already made use of computer techniques to compile data---surely there must be persons in the SWBC hobby phase with the same computer skills...

Most DXers recognize the value of foreign language report forms. But although the forms we now use are helpful, aren't they rather stereotyped? Why not a series of form material which would provide the DX'er with many appropriate sentences in various foreign languages so that by combining them, one could manipulate the pertinent sentences into quasi-personalized letters in the foreign languages involved? Surely this sort of thing must be well within the capabilities of a number of DXers, who could make the results of their work available to the hobby as a whole.

Courtesy programs (special broadcasts arranged with stations which normally cannot be heard during regular program hours) have long been a part of BCB DX'ing. With rare exceptions this approach has been ignored

...Any Bright Boy (cont'd)

by SWBC DXers, but all this takes is some time and effort to arrange some interesting courtesy programs -- no special skill is required.

I've always felt that the more one knows about a rare DX station before he tunes it, the better prepared he'll be to hear it, knowing the sort of programming to expect and the best approach to take when writing for a verification. I therefore find feature articles on these stations both useful and informative...but when, for example, did you ever read a feature article about Dili, or about a domestic Congolese outlet? Possibly a few people are writing such features about obscure Latin American stations, but what about the rest of the world? Yet, there are plenty of features about Prague, the Vatican, and similarly easily heard stations, which may be very interesting --- but isn't a vast field still untapped? Why so many stories about the large international broadcasters and so few about the lesser stations? Because the big boys want the publicity and consequently send this material out unsolicited. With some work and initiative, though, the same sort of data can be obtained from the smaller outlets. But you have to seek it, for it won't come to you without some effort.

I can hear some saying, "But of what use is this information to the typical club member who may find this sort of thing beyond his depth, even if more experienced listeners did the research and wrote the articles for the bulletins." The answer is that if such information is not available, no one, beginner or experienced listener, is really going to improve his abilities. We remain in our old ruts, our knowledge limited, our techniques of listening unimproved, our equipment not what it could be, considering the true state of the art.

Yes, there are 101 things -- and more -- that a bright boy can do to really improve the hobby of SWBC DX'ing. So why aren't we???

--Don Jenson, Wisconsin.

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Radio Vila - The New Hebrides Broadcasting Service

The Broadcasting Service is provided by the Joint Administration and responsibility for its use and operation is shared by the British and French national information services. Technical operations and facilities are made available by the Condominium Radio Department.

Radio Vila broadcasts twice daily, Monday to Friday, to the 80-odd islands of the New Hebrides. Programmes are presented in English, French, and Pidgeon, and are transmitted by a 0.5 KW transmitter feeding a dipole antenna beaming north and south, and operating on frequencies in the 41 and 75 meter bands:

41 meters	YJB7	0030-0130 GMT	7260 kHz	41.32 meters
75 meters	YJB4	0615-0730 GMT	3905 kHz	76.83 meters

The transmitter is a 0.5 KW Redifon, located at Malapoa near Vila (Lat. 168° 33' East, Long. 17° 44' South). Its operation is shared with the Marine Radio Service which at present limits our (R.Vila) hours of operation. Extended hours have been proposed pending the arrival and installation of a 2 KW AWA short wave transmitter, and operation in the broadcast band is also planned. (from R.Vila Information Sheet)

In a personal letter from R.Vila's Broadcasting officer, it was noted that: "Our new shortwave transmitter is now being installed, and should be ready for operation in Jan. 1972. We are extremely hard to hear in America as the Ham Bands cut across our Frequencies..." (He's tellin me??)

From Mr. John Meneil, Broadcast Officer, Radio Vila, via editor

"Straight From the DXer's Mouth -- the SX190 Lowdown"
...by "Honest Ed" Shaw

The Allied Radio Shack SX190 is a solid-state professional receiver consisting of 43 various semi-conductors. It is crystal controlled, permitting precision tuning to within $\frac{1}{4}$ kHz (for whatever that's worth). The rx comes equipped to tune 75, 49, 41, 31, 25, 20, 19, and 16 meters, and also the 11 meter CB band. There is also the provision for two extra ranges of your choice, provided that one lies below 10 MHz and the other above 10 MHz. Ideally, one might choose xtals for the 60 and 13 meter bands, but that's merely opinion. The receiver sells right at approx. \$250.00 before tax and the lift of the price freeze. There are several very useful features included with the SX190 which are sometimes not found on other rx's: I particularly like the crystal calibrators for carriers at 25 and 100 kHz increments, the Q-Multiplier, and the product detector for upper and lower sidebands--essential for listening to most utility test tapes. It will perform on either house current or a 12 V.D.C. power supply (such as an automobile battery). So much for preliminaries. Now for evaluations.

APPEARANCE. The receiver is housed in a grey-colored metal cabinet, the top of which can be lifted off by removing a few easily accessible screws. A small indentation near the edge of the main tuning dial is particularly handy for rapid spinning of the dial with one finger. Main Knobs are large.

SENSITIVITY. Specifications claim less than 1 mv sensitivity for 10 db S/N ratio. Depending on the antenna used, listener's QTH, season, and atmospheric conditions, all receivers might have the capability to detect the weakest of signals, but the SX190 has consistently provided me with excellent results on 49, 41, and 25 meters. I have not concentrated interest on 19 meters or above. I am pleased that the SX190 has provided me more of the "below 7.5 KW" DX than I had previously noted. Particularly noteworthy are the FBS Athens, the Austrian Army Radio, and Deutschland Sender from E. Germany-- all from Europe. Also logged have been Fort Lamy in Chad, Sao Tome, Comoro, and Zambia--all in Africa. These two areas are my favorites.

SELECTIVITY. Without using the Q-Multiplier, there has been no trouble separating even powerhouse stations 5 kHz apart from smaller outlets. Many times, separation depends on how well a broadcaster cleans up his signal. At times, a signal has an extraordinarily wide bandwidth, and this causes trouble. To give some concrete idea of practical selectivity, I can on occasion separate 6005 kHz Montreal and 6006 kHz Costa Rica. As far as I am concerned, selectivity is superior to any receiver in my experience, the sole exception being the R-390. However, I haven't yet tuned the R4B or some of the very expensive king receivers.

STABILITY. The receiver is crystal controlled and solid-state throughout. The chassis is massive and solid metal. It doesn't drift one hair.

PROBLEMS. And there were a couple of really annoying ones, too! The first day or so that I had the rx, a cold solder joint or two accounted for broken contacts and the set was returned for repairs. Within a week, the receiver developed some really excessive noise, and the lower range of the preselector began to malfunction. I was getting terrible noise levels and harmonics at extreme ends of the crystal ranges. Another return to the shop fixed that. However, I am beginning to suspect that the SX190 has an inherent problem of slightly higher noise levels than I've had before. Since the set has a full-wave rectifier, it's not AC hum, but rather a soft SSSSSS sound. I am willing to overlook this relatively minor flaw in exchange for what this rx has produced for me in the way of DX. Concerning the price: well...it was worth the \$250.00 to me. Although I'd prefer an HQ180A, we take what we afford. For the price, the SX190 is unparalleled.

--Ed Shaw, Virginia

Late note: Ed advises that the SX-190 works extremely well with new 60 meter crystal and new 90 meters crystal (actually covering down to 3.0 MHz vice 3.5 MHz!)

"The El Cheapo All-Band Variable Antenna System--The DX #13"

Presently enjoying bestseller status is a work entitled Future Shock a book which argues the implications of the ever-growing transience of everyday life: people move, move, move. It seems to me that the author's point is not without merit, since for the last 3 years I have moved, moved, moved. Yes, Charlie, I was once an average run-of-the-mill DXer: living in a house with trees and a garage and telephone poles between which I could spin as big an 18 gauge copper web as my whims dictated. Then, in the fall of my 18th year, I was introduced to transient living (nine months at a college dorm, three at home; nine mo's. three, etc., etc.) For the first time I truly felt empathy with apartment-dwelling DXers living under the rains of unsympathetic landlords (Oh no, none a that sortwawe stuff here, ya don't... You're making spots on Matt Dillon's horse last nite... etc.). During my freshman year, the owner condescended a bit and allowed a small long-wire underneath his tangle of powerlines, and for the most part of that glorious year, I dined on a VOA and static stew... These brilliant QTH ex continued well into my 2nd year at the University, and it looked as if my fate had preordained by some power well above me and my quaint S-85.

There's an old saying that the 3rd time's the charm. Perhaps it's true. This September I moved into a tiny weed-covered flat that sits gir-dled by two brick 'n mortar behemoths, and nary a tree in site. And there I sat with 150 feet of well rusted antenna wire wrapped around a Folger's can, and no place to put it. I've always held that DX'ing is more of an art than a pastime, and hence that the DXer is innately creative. If it were otherwise, he'd be catching butterflies or collecting stamps in his idle time, or another more commonplace pursuit. So I looked to my creativity to get me out of a mon-umental mess; and indeed, I found my creativity--on the shelf of my dad's garage. There, amidst a clutter of screwdrivers and radiator-hose clamps, sat the seedling that ultimately blossomed into the (ta-dai) "El Cheapo All-Band Variable Antenna System", otherwise known as the "DX #13". The sprout of inspiration that became the mighty oak was an automobile antenna which had been discretely removed from the car proper via a baseball bat wielding Hallowsen pranksster. Sawing a 1 1/2 foot section off my mother's bamboo clothesline support and snatching up my coil of old antenna wire, I hurried off to my shack, little knowing that the course of DX history was to be changed... *ahem*. Now, here are plans so that you may construct your very own DX #13.

Any hollow cylinder will suffice as a base, altho I found bamboo pole to work advantageously. The length is actually indeterminate, altho it must be long enough to lend proper support to the antenna whip. Drill (punch, burn, cut) a small hole from one of the bamboo's extremities. Through this you thread a end of your antenna wire, fixing the internal end of the wire to the edge of the whip (see illust.). Use your ingenuity to solder, wrap, or tie the wire to the whip, the better the connection, the better the unit. Next required is the mounting of the whip inside the tubular base. I accom-plished this by sandwiching the whip between two grooved pieces of wood, fastening these with a wire wrapping. Make sure that it is a tight fit, tho---we're attempting some semblance of permanence here! hi. Next, take the end of the wire extruding from the hole in the base to the outside, and coil it around the base itself. I just wound a copious amount, although attention to the number of windings will ultimately determine the general frequency area in which the unit will best resonate---the more windings, the lower the frequency. When this coiling process is completed, wrap it well, using an entire roll of electrical tape (it can well use the protection from the elements). Finally, you will need a mounting bracket for the unit. I made the original out of a coat hanger, affixing it via bell wire. (cont'd...)

"El Cheapo -- DX #13" (cont'd)

Place this unit as high and isolated from power lines and telephone wires as possible. This is the beauty of this antenna: its very nature will allow you to situate it on your chimney, or on your external window sill, and out of the shadow of Ma Bell (whereas a good longwire usually invites eventual intersection of power lines, etc., even when in other planes.)

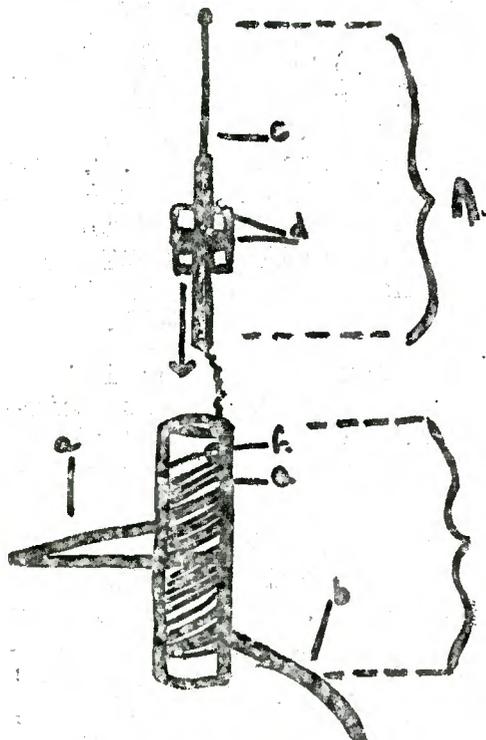
This unit must be coupled with an antenna tuner such as the one of Al Niblack's design (which follows this article). The tuner is built from 2 variable capacitors, a switch and some wire. The unit's entire cost, at the most, should not surpass \$5.00 -- and will vary according to your ability to scrounge. If you don't have an old car antenna kicking around, check out the local car wash (I used to work in one, and they break off whips like crazy!).

Using the DX #13 the day after its construction at my midwestern QTH, I logged RRI 5047, RMS 4950, FEBC 7225, Kenya on 4915, and HNBI 15424 kHz-- a wide range of frequencies and areas for an omnidirectional antenna. This unit is superb on freq's 41 mb - 90 mb, and is adequate above. However, if your forte is above 31 meters, that wide range can be implemented by lessening the number of windings, thus making it responsive to that so-desired spectrum.

Strangely enough, I don't mean to present this antenna as a 2nd-best choice to the other various types. I've had a number of dipoles, longwires, etc., but in deference to the scattered DX areas of my interests, after using the DX13, I'd venture to say that this rather haphazard model is one of the best DX antennas that I've ever had !!

Crazy, huh???

... "Ralphus" Perry, Ill.



"DX 13"

DX #13 PARTS:

- | | |
|--|--|
| a. mounting bracket | c. bamboo tube, wrapped in coil |
| b. coaxial cable lead-in (to rx) connected to coil | f. hole in bamboo, wire feed in; |
| c. whip segment of antenna | A & B. Note that section "A" should snugly fit into "B". |
| d. 2 blocks of wood, electrical tape. | Good luck! |

Sharjah, Abu Dhabi, Dubai Join Federation

From now on, send your Voice of the Coast reception reports to the "Union of Arab Emirates", rather than just "Dubai". "...the world got a new Arab nation today, w/ the size of Austria and pop. 180,000. Six emirates spread along the So. West coast of the Persian Gulf joined to become the "Union of Arab Emirates. The members are Abu Dhabi, Dubai, Sharjah, Fujairah Ajman, and Umm al Qaiwain... Qatar and Bahrain became indep. in '71 also."

from the Chicago Sun-Times, Dec. 3, 1971 (via editor)

"The Add-A-Decibel Antenna Tuner"

by Al Niblack

(Acknowledgement: the late, beloved A.K.Saylor)

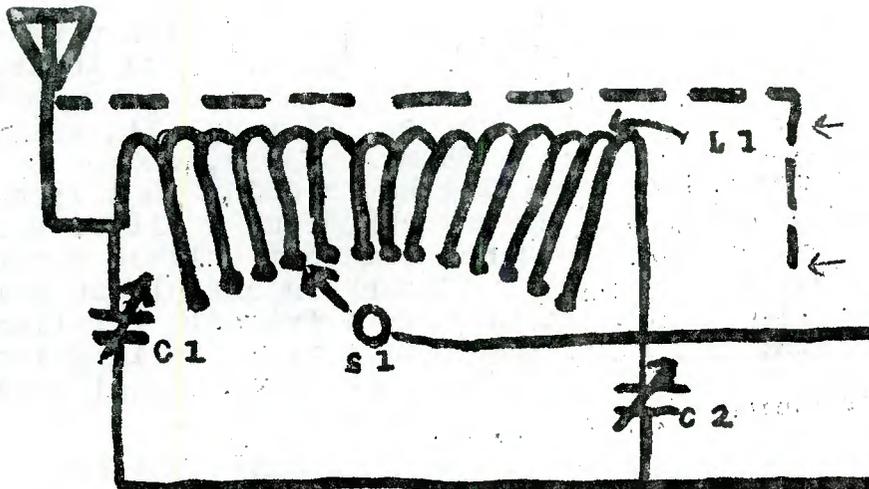
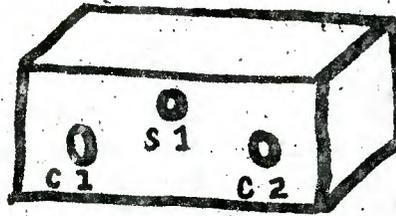
This text includes instructions for building a simple antenna tuner which will add a few precious decibels to the received signal. The simple schematic and parts list below should allow you to easily do so. The construction of the antenna tuner will involve the drilling of the cabinet; or it could be done "breadboard style". Parts layout and wiring are not critical, although they should be straightforward. Wiring should be kept as short as possible (This is a good practice to follow in all electronics work). And of course, some rudimentary ability to solder is required.

Parts List

- L 1 : 40 turns of #20 enameled wire wound on a 1"(O.O.) polystyrene form. Taps taken off at turns #2, #5, #8, #12, #18, #25, #30, #35, and #38.
- S 1 : Single gang, single pole - 12 position rotary switch (non-shorting).
- C 1, C 2 : (one each) .000365 MMFD single-gang tuning capacitors.
- 1 aluminum minibox: (Bud or equivalent) cabinet size not critical, as long as it will comfortably mount all components.
- 1 Polystyrene form: 1" in O.D. , approximately 4" in length.
- Misc. Hardware: terminal posts, insulated hook-up wire, knobs, and 1/8" diameter bolts with nuts.

SCHEMATIC DIAGRAM AND ILLUSTRATION

suggested position for minibox drillings.



....Note: the broken line. This tap cuts out the tuner; signals bypass, go directly to rx.

....To tap #12

....To rx antenna post

....To rx ground post

"Where is Shortwave Radio Going?"

by Victor C. Jaar

Did you notice that the standard rx nowadays carries only the AM and FM bands? However, in the past, SW rx's were so popular! Today, such familiar bands as 90, 60, 49,31, and 25 m. just seem to have disappeared (cont'd)

"Where's SW Going"(cont'd)

from the dial altogether. Unfortunately, where else could you get such favorites as the BBC, DW, or R.N.Z.? I used to tune to such fqys, late at nite and early mornings. When the Europeans faded, the LA's replaced them; the Pacifics and Asians came in. The reception of low-powered stations, like Bapoete or Honiara, real trophies, could only be achieved thru long hours of patient listening... The ITU is supposed to assign specific fqys to each country, yet there there seems to be no rule in the SW Jungle: stations of 1 KW or less share identical or neighboring fqys with 250 KW giants. Despite the 5 kHz channel decision, the use of split channels and its results is known to all listeners: Talks in different languages, Beethoven's 9th and maybe the latest pep, all mixed in the wildest score ever!!!

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"Your Friendly Repair Man"
by Al Sizer, Conn.

If you're really into the DX hobby, with more than just peanuts invested in equipment, then the repair problem is a vital one. Sooner or later you're going to have mechanical or electrical problems, and unless you are one of the lucky few who can do his own repairing, you will have to enlist outside help. Looking forward to this unpleasant eventuality, it is an excellent idea to start shopping around now for a capable, experienced radio man. Sounds easy? Not really...consider: you have equipment, often expensive, which infrequently shows up in the runofthemill repair shop, which are accustomed to such makes as "Zenith", "Realistic", "Panasonic". Let's face it, there aren't many SWL's around, unfortunately. Once my receiver got knocked out, and when asked, the biggest radio-TV dealer in town said that although he was unfamiliar with the trade name "Hammarlund", if supplied a manual, he'd give it a try. I gave up on him immediately! Another consideration is that a lot of inexperienced, incompetent and perhaps part-time people are working in repair shops because of the heavy backlog of work (in turn due to a fairly alarming level of the same in the manufacturing plants). The larger radio stores usually sublet their abundant repair work to outsiders, often "moonlighting", who may or may not know their trade. The risk is yours--so look before you leap!

The solution? Be prepared to go far afield, as you won't find your repairman nearby unless very lucky. Try to find someone who might be interested in your equipment -- If a "ham" operator is running a repair shop, he's likely to be familiar w/the type of equipment you use. Although I'd rather not name him publicly, in my case I go to a city 35 miles away, where "Elmer" (a ham operator) will often drop anything he is doing to help me out, occasionally fixing my rx on-the-spot. He may charge me a little more, I'm not sure, but I pay him without question since I accept this as a condition of prompt and expert service. I've shown "Elmer" an article on SWL I've written and he's shown me his ham QSL's. We have a friendly relationship, based upon mutual interests. And there's a bonus: if my rx is going to be out of service for a long time, he'll let me rent at a nominal cost almost any set in the shop that does not belong to someone else.

"Your friendly repair man" --- a difficult man to locate, but one worth his weight in QSL's when you can find him! If you haven't, better start now.

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UPCOMING SVC's: An inside look at radio audience in Cambodia for the various SWBC'ers, clandestine and legit; The history of SWBC in Nigeria, from semi-telephone system to NBC; The fascinating history of a now defunct SWBC'er -- R. Telefis Bircann; Behind the Russian regionals' QSL drought; Receiver reviews: SW4A..R4B..SX200..SB310..etc.; Oy. Yleisradio Ab.; NHK; Hopefully: Maldives, Reunion, Mauritius...and: your article???????

.....and now, our noted in*depth reporter uncovers for us another timely and relevant story on the shortwave scene:

"Chilean Radio Station Suspended"

Chile's left-wing government has suspended broadcasting by Radio Presidente Balmaceda, the outlet which aits the views of the opposition Christian Democratic party.

Jaime Suarez, Sectetary General of the presidency announced that a forty-eight hour suspension of Radio Balmaceda was for "...serious offenses against the President and the Armed Forces..." The specific offenses were left unstated. The suspension was the second this month (December) for the station which operates on 9590 kHz shortwave with one kilowatt of power. Several weeks ago, before a state of emergency was decreed due to violent street disorders over a protest march staged by the women of Santiago, the government banned Radio Balmaceda and two other opposition radio stations off the air for twenty-four hours. At the same time General Augusto Pinochet, Santaiago army garrison commander who assumed control of the public order under the State of Emergency opportunely closed down the right wing newspaper TRIBUNA for the same period of time.

The action against Balmaceda Radio and the paper TRIBUNA reflects the hard line taken by President Salvador Allende Gossens and his supporters against all opposition since the start of the bread riots. The legal powers of the executive to act against communications organs curtails in practice the ability of the opposition Christian Democrats and National parties.

The operation party controls three radio stations...Balmaceda Radio, as mentioned, Radio Sociedad Nacional de Agricultura on 11810 kHz shortwaves with five kilowatts from Santiago; and on medium waves, this station is noted at 1200 kHz with ten kilowatts from the small mountain town of Los Andes. The third station is Radio Cooperativa, operating also on the MW band, on 640 kHz with just one kilowatt from Temuco, a small place three-hundred eighty miles due south from Santiago on the Panamericana. It is said that all three broadcasters have wide national audiences through provincial radio stations, forming networks with stations in the capital.

...George Schnabel, New York

(Material gathered from various newspaper sources.)
Geo: any connection between this and no Balmaceda QSLs last 6 mo's?-ed.

* * * * *

"XMTRs in Enugu"

A prevalent mistake in some shortwave circles is to confuse the sources of broadcasting from Nigeria's East Central State, formerly Biafra (with captal and transmitters at Enugu).

The NBC, the Nigerian Broadcasting Corporation (the national broadcasting outlet with headquarters in Lagos) operates a regional station at Enugu, which mainly carries a nationally-oriented type of programming; rather than an Ibo or Yoruba or Hausa based transmission. The NBC-Enugu, as of a letter of 11 Sept. 71 transmits on only two frequencies: 6035 kHz and 1320 kHz, with 10 KW's of power---this from Mr. J. O. Okongwu, the Engineer-in-charge.

On the other hand, the "East Central State Broadcasting Service", or ECBS, is a state-owned broadcasting organization based in Enugu, catering to the local needs in way of programming to the residents of the East Central State; this locally based operation is as separate an entity from the NBC as is RTV Kaduna. ECBS also uses 10 KWs, and is scheduled on 7305A at 0500 GMT-2305 GMT daily. The 41 mb fqy is beamed from a simple folded dipole, acc. to Mr. R.F.Obioha, Senior engineer of ECBS. Interestingly, tho both are vy friendly, neither claim the 4900 kHz unid. as theirs.---via ed.

....for some time now, we've all been noticing Larry Magne's ultra-detailed frequency quotes in the LR, and the fine DX that his rig has afforded to him; here's his stats run-down on a really fine rx,

"The Drake R-4B"

The Drake R-4B is a 120/240 vac, 50-60 Hz, high fgy (1.44-30.06 mHz) receiver with nine tubes, ten transistors, seventeen diodes, two integrated circuits, and utilizing a 620 kHz-wide linear VFO. It has variable selectable sideband, excellent image rejection (measures 60 db.) and ample sensitivity for all DX requirements.

The IF circuitry includes a variable passband, three AM selectivity positions, and a notch filter. Unlike commonly-found switchable sideband arrangements, the R-4B variable passband allows for infinitely-flexible selectable sideband, as one tunes in exactly that portion of the sideband that provides maximum readability for that particular signal. The 4.8, 2.4, and 1.2 kHz selectivity positions offer flexibility and excellent shape factors (3.8 at 4.8, 3.4 at 2.4, and 4.0 at 1.2 kHz).

Its less critical features include a 25 kHz crystal calibrator and an amplified slow/fast/off AVC., with fast and off in exalted carrier mode only. The AVC is outstanding under stress flutter conditions, such as those resulting from Polar-path signals from Asia. The S-meter is honest, not "hot" or faked in any way, and the noise blanker is effective in reducing pulse-type noises. With a two minute, two-cent modification to minimize parallax error, the VFO can read out accurately to better than the nearest $\frac{1}{4}$ kHz. Finally, the R-4B is reasonably priced for a "luxury" receiver: \$475.00 fully-equipped for SWBC, except for speaker (\$22) and extra VFO crystals (\$5.00 each).

There are shortcomings, of course, such as that LW/MW is obtainable with only modest results via an optional converter. Also, there is no balanced antenna input. There are only fifteen VFO crystal sockets; although one can be left empty for rapid insertion of extras. "Birdies", such as the one on 4978 kHz, are a minor annoyance. There is also an "IF hole" between 5 - 6 mHz, although if one uses a highly resonant antenna and is in an area of heavy static, usually almost all this range can be still be used effectively.

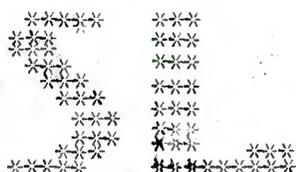
The R-4B is lightweight, attractive, uses quality parts, and is backed by Drake's excellent Service Department... (vy important; see piece by Al Sizer.--rwp). If you, like the BBC Monitoring Service, consider direct frequency readout essential, the R-4B is probably the best SWBC receiver you can obtain outside of the very expensive receiving systems produced by RACAL and a few other top-notch firms.

...by Larry Magne, Pennsylvania

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"Shortwave Controversies Don't Die ---
They Just Fade Away...Sorta."

DXer Steve d'Adolf has relayed clippings to SWC hdqtrs from the Boston Globe 24 Nov. 1971 on a piece of DX trivia that has been in peaceful repose since "Uncle Tom Kneitel" last resurrected it---Swan Is./R.America! "Notwithstanding the title claim of an 81 yr old man who lives on a 300 acre farm here, the USA has deeded a tiny Caribbean isle to Honduras...Sumner Smith says Greater Swan belongs to him- all 3 miles...He feels that the USA has indulged in a bit of gratuitous generosity, giving away something it never possessed. In the early 1950's, the US was paying Sumner \$300 a year rent for a weather station he'd allowed the USA to build. He also leased some other land for a radio station of the CIA, be'ing to Cuba in the 60's."



Reports to:

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

Deadline: 12th

Use Airmail To Be Sure

FOREIGN LANGUAGE REPORT FORMS

Members are reminded that your QSL Editor still distributes foreign language report forms in Spanish, French, Portuguese and Indonesian. The forms are written by experts in these languages, and are in the form of a personal letter which the DXer copies out, adding the relevant details of his catch, thereby sending a personal letter to the station. Hundreds of SWLs have found these forms useful in obtaining QSLs.

The forms are available for 1-IRC per form (only one of each language is needed), plus 1-IRC for every two forms or less if you wish an airmail reply: I regret that this change is necessary, but the high air postal rates for overweight letters require this. Airmail, incident is recommended for letters from Mexico.

QSLs RECEIVED

AFARS AND ISSAS: ORTF Djibouti, 4780, 4 cards for 4 receptions, in 3 wks. V/S: Le Chef des Services. 2 IRCs sent; reply by air (Field) verified quickly by airmail w/folder QSL w/all details. Sked on reverse. Rpted in French w/3 IRCs. 15 days total (Perry)

ALBANIA: Radio Tirana, 6200, b/w folder type card w/photo of bldg, w/sked. Seamail in 135 days (Lewis) 6200, 105 days sea; no IRCs (Hancheruk) 13 weeks for 2nd rpt (Rosen) 7300, 80 days (Plum) 7120, 11 weeks for 1 IRC (Howard) 6 months (Smallshaw) 116 days seamail; full data (Schnur)

ANGOLA: CR6RZ, 3375 kHz, card in 22 months for English report (Hendersor) Emis. Oficial, 7245/9535, 4 cards rcvd same day after several rpts over 1-2 years. Photo QSL-cards (Perry)

ARGENTINA: R.A.E., 11710, card in 6 months air for 1-IRC.

ASCENSION IS: B.B.C. relay, 9510, card in 4 weeks; 1-IRC. No data (Munger)

AUSTRALIA: Radio Australia, two cards for 9580/11710 (Shepparton) by surface mail for rpt form; no return postage. 11 months (Watman) 11710 full data colour card of world's largest monolith; 27 days (Hancheruk) 17795, card in 111 days (Schultz) 7220/Shepparton, card in 40 days sea (Lewis) 17795, 114 days (Schultz)

VLW9, Perth, 9610, card in 2 weeks for IRCs. All data (Munger) 13 days air for 1-IRC (Danghler)

VLQ9, Brisbane, 9660, Blue ABC map card in 87 days. 2 IRCs (Schultz)

AUSTRIA: O.R.F., 6155/9770/15145, 3 color cards in 50 days, sked, rpt forms. all airmail for 2 IRCs (Webb) 9770, personal English letter, 1 month by air. Returned tape by registered airmail (Lobdell)

BELGIUM: ORU Brussels, 9550, full data, colour map card, 25 days air. No IRCs (Mancheruk)

BOLIVIA: Radio Loyola, Sucre, 5995, very specific verie letter from V/S: Santiago Martinez-Orozco, Dir. (Wood)
Radio La Cruz del Sur, 4875, card, letter, stamps and pennant, in 2 weeks from Augusto Clavyo V., Director. Air reply (Field)

BOUGAINVILLE: Radio Bougainville, 3322, folder in 19 days from V/S: Keith Jackson. 3 IRCs (Neely)

BRAZIL: PRC5, R. Clube do Para Belem, letter in Portuguese, generalized, from V/S: Lourival Penalber, Commercial Superintendent (Patterson)
ZYT29, R. Diario da Manha Florianopolis, SC, sent beautiful Brazilian Christmas card w/generalized acknowledgement typed on reverse (Patterson)
ZYU60, Radio Guaiba, Porto Alegre, 5965, aerial view card of Porto Alegre w/full data in English on reverse. V/S: Enio Berwanger (Patterson) 35 days seamail; full data (Lewis)
ZYX2, Radio Brasil Central, Goiania, 4995, letter in Portuguese and English (full data) received from the Director. V/S: Dr. Manoel Dos Reis, Mayor (Patterson)

CAMEROUN: Radio Yaoundé, 4972.5, yellow/green/blue map of Cameroun card, w/full data (Patterson)

CANADA: Radio Canada, 15235, card commemorating new transmitters in 16 days (Kepes) 5970, full data inaugural card in 17 days air (Hanche ruk) 11720, 9 days (Marshall)
CJCK, Sydney, 6010, card in 10 days (Slade)
CHNX, Halifax, 6130, black and white card w/all details in 12 d. (Slade)
CKZN, St. John's, 6160, blue CBC card in 55 days seamail. (Schult)
CHU, Ottawa, 7335, card w/date, time and freq. along with station information in 9 days. IRC returned (Watman)

CANARY ISLANDS: RNE sent photo card of antennas and broadcasting complex on Tenerife, directly from the Canaries, in 12 days after a f/up report and mint stamps (Bruns)

CEYLON: Radio Ceylon, Commercial Sec., 15120, Orchids of Ceylon card in 1 month for registered report with 3 IRCs. Full data. V/S: Listener Research Officer. By air (Roberts) card by air from Bombay; 16 days (Mill)

CHAD: Ft.-Lamy, 4904, long card in 17 days after many tries. 3 IRCs w/French rpt sent (Perry)

CHINA: R. Peking sent picture card of "Red Detachment of Women" w/date and freq. in 46 days w/schedule (Bruns)

CLANDESTINE: Radio España Independiente, 12140, Picasso drawing card in 1 month direct from Prague w/full data for English report and IRCs. ADDR: REI, Baite 369, Prague 1. (Smallshaw) 3 months 3 days seamail (Schnur) 6 months 2 weeks (Insinger) 3 months for 2 IRCs (Rosen) 213 days seamail for IRC and Spanish report (Watman)
Radio Euzkadi, Xmas card received 3 1/2 months after f/up with notation that report "has been of great help" and with fraternal greetings to the "people of Vietnam and to the people of the U.S.A." (Berg)

COLOMBIA: Radio Santa Fé, 4965, 3 months with attractive QSL card, full details from Louisa V. de Bernal. On reverse is plantation scene. Spanish report and 3 IRCs sent. Louisa expressed thanks for p/p/card I sent w/rpt (Perry)
Radio Vision, 6105, Spanish letter and Colombian stamps, from Maria Elena Vasquez U., received in 11 days for Spanish rpt and 2 IRCs (Howard)

CONGO: RTVC, 9715, map card in 3 months air, w/full data (Rosen)

UBA: Radio Havana, 17855, colorful card w/full data in 125 days (Plum) 7345, cards in 71 days (Dickey) 11990, full data card in 60 days air; no IRCs (Hancheruk)

OLB5 Time Signal, 3170, card in 11 weeks for 1 IRC (Dexter)

DENMARK: Radio Denmark, 15165, black and white card of radiohouse aerial, 12 days air. No IRCs (Hancheruk)

ECUADOR: HCJB, 11745, card/stereo control room, plus religious leaflets in 23 days airmail. 2 IRCs (Marshall) 11745, card, plus sked, relig. info; 2 IRCs; 21 days (Dolyak) color card of antenna complex at night; 3 months sea (Hancheruk) 9615, 22 days air (Dickey) 23 days air for 2 IRCs (Plum)

EGYPT (Arab Republic of): Radio Cairo, 9475, letter and sked, sea mail for 3 IRCs (Webb) paper QSL w/letter saying new QSL series being printed; 17 weeks seamail. 2 IRCs (Linsenmeyer) 4 months (Sawallesh) 143 days (Ingram) 113 days seamail (Dickey)

ENGLAND: VOA Wofferton, 15205, card in 11 days from V/S: Anita Milauec (Duba) 11 days for 6040; no time given (Watman)

EL SALVADOR: Radio Comercial, 9575, card in 3 weeks (Field) V/S? (Ed.)

FRANCE: ORTF, b/w photo card of buildings; seamail in 4 months for 11920.

(Walenter) 17720, air in 10 weeks for 2 IRCs (Plum) 15295, 62 days (Slade)

FRENCH GUIANA: ORTF Cayenne, 3385, photocopy card with no data, plus letter and sked from H. Legegue; air reply for IRC and French rpt (Watman) card w/reproduction of 1762 map of French Guiana, w/general acknowledgement and sked. For 4865 (Patterson) 4865? (ed.)

FINLAND: Helsinki, 15185, full data colour map card w/headphones; 29 days air; no IRCs (Hancheruk)

GAMBIA: Radio Gambia, 4820, form letter in 3 weeks air; gives date and freq. (Rosen) form letter, w/date typed in; 5 weeks w/sked (Bruns)

G.D.R. RMI, 9730, photo sport p/card; seamail in 16 weeks (Webb)

G.F.R. Bayerischer Rundfunk, colorful card w/drawing of saxophone player, w/travel brochure on Munich, station technical information booklet and DW English pgm guide; all by air in 14 days for English rpt and IRC (Watman)

Deutsche Welle, Köln, full data blue map card; 106 days air (Hancheruk) 11945; 62 days air (D'Angelo)

VOA, Munich, 3980, usual card in 8 days w/full data from V/S: Dorothy Hill. No return postage (d'adolf)

Radio Liberty, card in 4 months on second try (Field)

GHANA: Radio Ghana, 11800, card w/full data, 60 days seamail. No IRCs (Hancheruk) card in 46 days w/sked; mint stamps sent (Kepes)

GREECE: NHBI, 15425, plain card in 1 month for IRCs (Smallshaw) 18 days air, for 2 IRCs (Lewis)

GREENLAND: Grønlands Radio, 5980, folder card, color p/card of "Godthab's Old Harbour", w/New Year's Greetings on reverse, and folder on country. V/S: H. Rasmussen; via airmail in 2 1/2 months for 2 IRCs (Howard)

GUATEMALA: La Voz de Guatemala, 6180, verified by blue/white full data card in the form of the Guatemalan flag when report was presented in person to Luis Alberto Pimentel G., Secretario, during recent visit to the Guatemalan capital. Also blue pamphlet on station's history and activities. Station says stamps preferred to IRCs. The QSL, incidentally, was printed in 1967 but have never seen it reported previously (Calkin)

Radio Chortis, red/white/green pennant w/Spanish form letter QSL in 65 days. Mint stamps sent; reply by air for 3380 (Schnur)

Radio Maya de Barillas, 2360/3325, letter for each frequency in 5 weeks on second try. V/S: Loran W. Veith, Jr. Offering sent (Field)

GUATEMALA (Ccht'd): TGNA, Radio Cultural, card, sked and Bible Tract in 21 days for IRCs. V/S: David Keeler (Dickey) Had the pleasure of meeting David Keeler when in Guatemala. He is quite interested in reports and the station has set up a display of p/cards which various listeners from around the world have sent with their reports. (Ed.)

GUYANA: GBS, 3290, letter from Maurie O. Denny, C.E. Air for 2 IRCs (Schultz) 20 days air for taped report (Pappas) 2 weeks for 2 IRCs (Elliott) 2 weeks air for 2 IRCs (Howard)

HAITI: 4VEH, 9770, map folder card, mint stamps sent; full data reply, 2 wks (Munger) 11835, full data black and blue map card of West Indies, 17 days air (Hancheruk)

HAWAII: WNVH, 5000, card w/all data but time; 12 days air. V/S: V.L. Trembath, E-in-C. (Watman) 10,000, painted lagoon card, air in 1 week. No IRCs (Sturm) map folder card in 16 days surface mail. V/S: C. L. Trembath (Duba)

HONDURAS: HRVC, Tegucigalpa, 4820, card in 59 days w/sked, by air (Dickey) card and sked in 33 days (Howard) 32 days air for 1 IRC (Slade)

HUNGARY: Budapest, 11910, full data card in 60 days air; 2 IRCs (Hancheruk)

INDIA: AIR, 11810, card/sked in 3 months for 2 IRCs (Neely)

INDONESIA: YDR3, RRI, Ambon, 4840, RRI emblem card w/full data, except power, from V/S: A. Njongki B.A. Also letter in English thanking me for rpt signed by A. . . Rakimin (Patterson)

RRI, Surabaya, 3975, glossy photo card of broadcast bldg; 30 days air for 2 IRCs (Lewis)

INTERNATIONAL WATERS: IRI color photo card of Mebo II; seamaile from Zurich in 2 months for 2 IRC's. No data (Insinger)

ISRAEL: Israel Broadcasting Authority, card, sked and newsletter in 26 days airmail. For 9625. No IRCs (D'Angelo) 9625, full data color card of Jerusalem in 35 days (Hancheruk)

ITALY: RAI, 11810, full data colour card of antenna tower, 75 days seamaile. 2 IRCs (Hancheruk) 15410, colored antenna card in 60 days airmail; 2 IRCs. (Richardson)

IBF Time Signal, black and white card, station info, by air in 15 days for 2 IRCs. Full data given (Schultz)

IVORY COAST: Radio Abidjan, 11920, map card in 5 months seamaile, including note that future reports will be answered more quickly. (Duba) "SWL de Radio Abidjan" card, printed in black, blue and gold in 8 months (Patterson) card in 1 month air for 2 IRCs (Losordo)

JAPAN: NHK, 17825, full data color card of sacred cranes, 14 days air; no IRCs (Hancheruk) 15105, card in 14 days w/sked and '72 calendar (Dickey) 15445, 16 days air for 1 IRC which was returned (Lobdell)

JORDAN: Amman sent beautiful p/p/card in 2 weeks for English report and 3 IRCs. Rpt sent registered for 7155 kHz (Perry)

KUWAIT: Radio Kuwait, 15345, folder card and schedule; air in 2 months on second try. 2 IRCs were enclosed w/rpt (Howard)

LESOTHO: Radio Lesotho, 4800, flag card in 19 days. Rpted in English w/3 IRCs. Reply by airmail (Perry)

LITHUANIAN S.S.R. "Radio Vilnius", 11900, card in 5 months air for 1 IRC. Design on front w/full veri on reverse (Losordo) QSL of flower arrangement, in 4 months 28 days seamaile; 1 IRC sent; QSL has full data less xintr QTH and power (Insinger)

LUXEMBOURG: Radio Luxembourg, 6090, black and white antenna card; full data; air in 2 1/2 months (Walenter)

MALAGASY REP: Radio Nederland's new relay, 15260, sent white card w/map of island and drawings of various sites, animals, other characteristics of the country. On reverse has full data, including site as "via Madagascar". Rpted to Hilversum. Reply by air in 9 days, no return postage (Berg) 15330, card for test heard on Dec 16/71. 10 days air (Neely) Ditto for 15260; 14 days air; no IRCs (Calkin)

MALI: Radio Mali, 5995, OCORA card in 5 wks for French report; registered, w/mint stamps; full data and sked handwritten on reverse (Roberts) by air in 280 days for French report w/3 IRCs (Milly) 4783/5995, brown and yellow OCORA card; one year after many IRCs, mint stamps, f/ups, p/cards etc (Perry)

MARTINIQUE: ORTF, Fort-de-France, 3315, letter from the Director, L.-M. Cohic; seamail in 31 days. Full data (Lewis) letter in French for French report w/2 IRCs. 1 month (Howard)

MEXICO: Radio México, XERMX, 17835, sent paper QSL, pennant, letter, sked, tourist info in 2 1/2 months airmail for mint stamps and a registered Spanish report. Also enclosed questionnaire. V/S: Victoria E. Perez de Leon (Roberts)

Radio BH, XEBR, 11820, card w/drawings of station, mountains and antenna, plus call/signs and frequencies; 1 month upon presentation of f/up in person at studios in Hermosillo, Sonora. V/S: Luis Hoeffler Obregon, Gerente, who now promises to answer all correct reports, which may be sent either in Spanish or English to Apdo. Postal 68, Hermosillo, Son. The 11820 outlet is using only 150 watts, and so is an excellent catch anywhere (Calkin)

Radio Universidad, Hermosillo, Son., 6115, card w/veri text in English and Spanish in 10 days for a Spanish report and mint stamps. No specific data (Calkin)

Radio Sistema Yucatan, XEQM, 6105, friendly letter, p/cards and window stickers; air in 6 days for Spanish report w/mint stamps. V/S: Luis de Sales Cob Estrella, Jefe de Oficina (Calkin) 13 days, letter w/separate 3 foot color calendar. 3 IRCs (Schnur)

MOROCCO: VOA, Tangier, 7285, card in 20 days; no IRCs (Danghler) 11710, 10 days from V/S: Anita Milauec (Duba)

NETHERLANDS: Radio Nederland, Hilversum, 11730, full data card in 8 days air (Hancheruk) 9715, 9 days (Duba)

NETHERLANDS ANTILLES: Radio Nederland, Bonaire, 11730, black/white card of St. Jan's Cathedral; via airmail in 3 weeks for 2 IRCs (Richardson) 9 days air (Hancheruk) 11730, 10 days, no IRCs (Neely) card confirming 9591, via air in 6 weeks - took longer as the deviation had to be checked out (Ferguson)

Trans-World Radio, 11815, black and white card of bldg; 13 days air (Hancheruk)

NEW CALEDONIA: Nouméa, white map card in 5 weeks for 11710 kHz (Walenter)

NIGERIA: Voice of Nigeria, 15185, white/green flag card in 16 days, returning IRC saying they are not required. (Kepes)

ECBS, 7301, Enugu, friendly letter giving station info, xmtr power, and antenna data, plus full verification details. V/S: R. P. Obioha, C.E. Rpted in English w/5 IRCs. By mistake rpt was sent to NBC/Enugu, but an on-the-ball NBC employee forwarded. 3 months in all, and came registered (Perry)

Radio Nigeria, Lagos, 4990, card in 35 days air, returning 2 IRCs (Lewis)

NORWAY: Radio Norway, Oslo, 9610, card showing "Winter in Norway", by air in 14 days from V/S: E. Thokle (Lobdell)

PAPUA: VL8BM, Port Moresby, 11880, letter in 2 weeks from U. F. Carter, Dir. (Field)

PERU: Radio Andahuaylas, 4840, letter in 2 months on second try from V/S: Daniel Andrew C., Director General. SASE sent (Field)

Radio Atlantido, 4850, letter, Peruvian stamps and pennant in 11 days

PERU (Cont'd): for a Spanish report. IRCs were returned (Howard)
Radio Ilo, 5035, card in 3 months on 5th try (!). SASE sent (Field)

PHILIPPINES: VOA/Tinang, 7160, card, w/site, freq., date and time (Bruns)
FEBC, Manila, 11920, 103 days w/religious material and sked.

POLAND: Radio Warsaw, map card, personal letter and sked after f/up by tape;
15 months total (Walenter) 135, map card and personal letter from Editor-in-
Chief; air in 2 months for 1 IRC (Howard)

PORTUGAL: IBRA Radio, 9670, orange/white tower card w/full data in 1 month
for 2 IRCs. Rpted to Sweden. No V/S, but also sent sked, religious info and
pennant from Sweden (d'Adolf) IBRA via RTE, 9670, card w/full data in 26
days by air for 1-IRC; also various pamphlets and letter (Watman) 9670, card
sked, pennant and religious material in 3 weeks. V/S: Addvar Johansen. (Field)
Voice of the West, 11840, large map QSL in 35 days air. No IRCs
(Hancheruk) 6025, 17 days air for 1-IRC, w/Listeners Magazine (Danghler) 43
days; no IRCs (D'Angelo)
Radio Free Europe, 15115, blue Liberty bell card in 1 week from NYC
(Smallshaw)

PORTUGUESE GUINEA: Emisora Oficial, 5041, green folder QSL in 24 days seamail;
mint stamps sent. Full verification confirmation (Rosen) folder after f/up;
2 months total for Portuguese report, 3 IRCs and Mint stamps w/f/up (Perry)

RUSSIAN S.F.S.R. Radio Moscow, Armavir, 7205, full data card w/site; 5 weeks
air (d'Adolf) 5 weeks, card w/site (Plum) 28 days air; no IRCs (Schultz)
Radio Moscow, Moscow, 7310, card w/full data incl. site; 28
days airmail. No IRCs (Schultz) 7290, full data w/site; 5 wks (d'Adolf)
Radio Moscow, Nikolaevsk-on-Amur, 9730, card by air in 28
days; full data (Schultz)
Radio Moscow, Sverdlovsk, 7150, full data w/site; by air in
5 weeks (d'Adolf) 1 month for 2 IRCs (Richardson)
Radio Moscow, Petropavlovsk-Kamchatsky, 9540, card in 32 days
w/complete details including site (Schultz) air in 38 days w/Radio Moscow
pennant (Marshall)
Radio Station Peace and Progress, 9480, card w/sked in 3
months air for 1-IRC (Losordo) 6 months (Smallshaw)
RID Time Signal, 15004, letter from Mrs. Stepanova advises
that the correct address for this station is: USSR Ministry of Communications,
7 Gorky Street, Moscow (Smallshaw)

ROMANIA: Bucharest, 9510, full data card in 53 days air; 2 IRCs (Hancheruk)

RYUKYU IS: VOA, Okinawa, card, w/date and site; 30 days for 6010 (Hancheruk)

SAUDI ARABIA: Riyadh, 11855, registered letter w/crossed swords card; sea in
42 days (Lewis)

SENEGAL: Radio Sénégal, 4890, stringed instrument card in 14 days air; 3 IRCs
w/NASWA French Rpt Form (Kepes) 11895, card in French in 3 weeks (Field)
17 days for IRC and French language report (Watman) 16 days air (Lewis)

SEYCHELLES: FEBA, white card for 15415 test in 29 days airmail. 3 IRCs (Neely)
11950, plain blue/white card w/station emblem in 28 days. V/S: Brenda Bacon,
QSL Secretary. 2 IRCs sent (Schnur) 107 days seamail (Watman) 11950, in 3 1/2
weeks (Roberts)

SOLOMON ISLANDS: VQ07, 7235, white map card in 10 weeks seamail for 3 IRCs
(Neely)

SOMALIA: Somali Broadcasting Sce, 6093, white card in 20 days air for 4 IRCs
(Neely) 24 days air (Rosen) 32 days air; 2 IRCs sent. V/S: C. L. (Lewis)

SOUTH AFRICA: Radio RSA, 9525, colorful map card in 17 days air (Hancheruk)
11970, card, magazine and letter; 22 days air (Dolyak) 32 days for 9525; 14
days for 9695 and 18 days for 11970 (Dickey)

SOUTH YEMEN: Aden, 5060, pink card w/antenna drawing; veri stmt, date and frequency. 2 months for English report w/out IRCs. Didn't really expect a reply! (Perry)

SPAIN: RNE, 11925, card, sked in 60 days. No IRCs (Hancheruk) RNE/Noblejas, 9520, card, pennant and sked. QSL is marked as "nuevo emisor de Noblejas". (Field)

Radio Liberty, 17755, card in 2 weeks air. 1/IRC (Field)

SUDAN: Radio Omdurman, 11835, letter and tourist pamphlets in 5 weeks sea (Rosen)

SWITZERLAND: Berne, 9535, black/white card of antenna complex; 65 days air. No IRCs (Hancheruk) 11715, b/w card of Schwarzenburg antenna; 1 month by air for 2 IRCs (Richardson) SBC/Sottens, 21585, card stating "you heard our new transmitter". 5 weeks (Dexter)

ICRC, 7210, card w/frequency and date and sked in 25 days air for 1-IRC (Watman)

SYRIA: Syrian Broadcasting and TV Sce, globe card for 3 IRCs; 163 days (Bruns) 15240, 5 months w/beautiful glossy card showing globe and radio tower straddling the middle east. Full verie info; by registered airmail (Perry)

TOGO: Radio Togo, Lomé, 5047, green globe card in 44 days. 2 IRCs (Keyes)

TUNISIA: RTT/Tunis, 6195, color p/card in 22 days for French rpt w/3 IRCs. Full data (Roberts)

TURKS AND CAICOS IS: Turk Island Radio, Grand Turk, 4778, letter from D. R. Mattocks, Mgr in 11 days. 2 IRCs (Field) 40 days by letter giving power as 750 watts (Lobdell)

UKRAINIAN S.S.R. Radio Moscow, cards in 6 weeks for Ivanofrankovsk/9760 and Lvov/2150 (Burnell) Vinnitsa/11850, orange card in 7 weeks air (Sellers)

"Radio Kiev", card in 3 weeks (Stone) 43 days air for 9600 (D'Angelo) 11735, card in 60 days airmail; no IRC (Hancheruk)

U.A.R. See EGYPT (Arab Republic of...)

(Perry)

U.S.A. AFRTS, QSL-card in 4 days when all I requested was their sked! Hmmm!/
WINB, 17720, card in 26 days w/sked. V/S: Rev. John Norris (Schultz)

15340, card and sked (Dclyak)

VENEZUELA: Ecos del Torbes, 4980, personal letter in Spanish from V/S: C. A. Sarmiento, plus small colorful pennant showing country/antenna. 21 d. (Plum) 15 days for Spanish rpt and mint stamps. V/S says he is interested in baseball, cycling, basketball and soccer (Bruns)

Radio Barquisimeto, 9510, card by air in 17 days (Konen) 4990, 22 days for English rpt (Schultz) 21 days for 2 IRCs (Plum) 2 wks for 9510 (Stone) 5 weeks for mint stamps sent (Munger)

Radio Continente, tower card in 18 days w/full data. (Rosen) 5030, 11 days for mint stamps; seamail (Schnur) Sea in 11 days? (Ed.)

Radio Juventud, 4900, dancing teens card in 1 month for Spanish rpt and state decal (Smallshaw) 1 month for English rpt and 1-IRC (Howard)

Radio Lara, 4800, circuit card in 1 month for Spanish rpt (Smallshaw)

Radio Litoral, Macuto, 5060, card from Luciano Landaeta Lonera, Dir. in 2 years. SASE sent, but not used. Reply by air (Field)

Radiodif. Venez., 4890, long letter from Raúl Varela, Locutor, who welcomes rpts and appreciates souvenirs. For Spanish rpt (Smallshaw)

YVTO/Observatorio Cagigal, Time Signal, 6100, sent white card w/drawing of the observatory, call letters, etc, on front, "thank you" stmt only on back w/frequency. V/S: Oswaldo Ponce Ponce, Capital de Fragata. 4 months air for Spanish rpt, tape and mint stamps (Berg)

ZAIRE: La Voix du Zaire, 7115, French letter from V. Nikuna in 38 days. No IRCs sent (Howard) 61 days, letter stating out of QSL cards at present; sea-mail for 2 IRCs. No time given; for 15245 kHz (Lewis)

RADIO LIBÉRATION

RADIO LIBERATION
La Voix du Gouvernement
Révolutionnaire Provisoire
de la République du Sud Viet-Nam

SUD VIET-NAM, 22 Mai 1970.

Monsieur GREGG A. CAIKIN
151 Cooper St., Apt. 903
Ottawa 4, Ontario

CANADA.

Cher Monsieur,

Nous avons le plaisir de vous accuser réception de votre rapport d'écoute concernant une sélection de nos émissions en langues vietnamienne et française du 12 avril 1970. Votre rapport correspond exactement à nos logs.

Veuillez noter que vos émissions en langue française se font tous les jours :

- à 3h (heure d'Indochine) soit 20h (heure GMT) sur 19m et 25m (soit 15.050 et 12.000 kilocycles),
- à 3h30 (heure d'Indochine) sur 31m et 41m (soit 10.050, 9.920 et 7.400 kilocycles),
- et à 21h (heure d'Indochine) sur 25m et 31m (soit 9.920 et 12.000 kilocycles).

Nous vous serions reconnaissant de suivre nos émissions et les faire connaître à vos amis et connaissances et de nous faire parvenir vos avis et suggestions.

Veuillez agréer, Cher Monsieur, nos salutations empressées.

RADIO LIBERATION.

Adresse :

RADIO LIBERATION
c/o Bureau d'Information
du G.R.P.
de la République du Sud Viet-Nam
39, avenue Groges Mandel

PARIS (16^e).

Our featured QSL this month is from Radio Libération, the Vietnamese clandestine station which purports to operate from inside South Vietnam. The above QSL is unique in that it was received from Hanoi, and was posted 10 days after it was dated, supposedly in South Vietnam.

And so, until next month, Best 73s es DX, GREGG.

News
Tips
Skeds

LISTENERS NOTEBOOK
LISTENERS NOTEBOOK
LISTENERS NOTEBOOK

Deadline - 18th

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

WRTH 72 The 1972 edition of the World Radio TV Handbook arrived just after the January LN section was mailed. The WRTH is an essential reference for anyone listening on the shortwave bands. The 72 edition runs 384 pages, with well over half of that devoted to information on shortwave broadcast stations. WRTH can be ordered from Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656. Price is \$6.95 ppd, and well worth it. Tell them NASWA sent you.

BBC MS NASWA has made arrangements with the BBC Monitoring Service to receive the schedule information compiled from their monitoring activities. This information, when it is something which would be useful to members, will be given in this section. Such information will be credited (BBC MS). The material is copyrighted by the BBC, and is used here by permission. We cannot, of course, give permission for this material to be reprinted.

SCHEDULES The arrangement noted above for use of BBC MS material was made in line with a previously stated preference for material derived from actual operations/reception, and not just from schedules published by the stations. As noted before, stations' schedules are useful, and are more useful for this section if they have been at least partially checked out on your receiver. However, if you are unable to check out a sked, send it anyway and I will try to get it checked. Not all of the schedule information in this section has been checked out, but most of it has been.

With the dropping of the summer editions of the WRTH, it has been suggested by several NASWAers that there will be a big gap to be filled, and that the LN section can do a great deal to fill that gap. We will be keeping watch on the operating schedules of the major broadcasters, and as many of the smaller ones as we can. When changes warrant, we will compile schedules of operations of these stations, and publish in LN. Some have suggested that full sheets devoted to a single station are useful, as it allows one to insert the sheet in a notebook of schedules. Of course, this would cause problems, what with additional information on the back of the sheet....I would be interested in knowing how many of you keep schedule notebooks seriously. There is a possibility that we could offer such schedules, printed on one side only, and each sheet containing info on only one station, for easy insertion in a looseleaf notebook. There would be no charge other than postage(SASE), and the offer would be to NASWA members only..... This would be one method of at least partially filling the gap left by the deletion of the WRTH summer editions. Perhaps there are other, better methods. I am open for suggestions of other methods, comments on the possibility outlined here. (DF)

ALGERIA Steve d'Adolf sends a copy of a sked from RTVA. The sked is incomplete, not mentioning 6080 kHz a known active channel for RTVA. It reads: (KK=Kabyle)

- 0600-0000 in AA on 9510, 11810
- 0600-0900 in KK on 9685
- 1200-0000 in KK on 9685
- 0600-0000 in KK on 9685(Sunday)
- 0600-0900 in FF on 11715, 11835
- 0600-0000 in FF on 11715, 11835
- 0600-0000 in FF on 11715, 11835(Sunday)
- 1800-2100 in AA on 9660, 15410
- 2100-2300 in FF on 11835, 15420(d'Adolf)
- (add: 0600 past 0630 FF on 6080, (DF))

BANGLADESH BBC MS quotes following sked from anmts & observations:

- "Overseas Service"
- 0230-0300 EE on 7095
- 1230-1300 EE on 15220
- "Home Service"
- 0030-0300 on 4915(NaE 0145-0155)
- 0030-0220 on 7095(NaE 0145-0155)
- 0630-0800 on 9560/7260(NaE 0730-0740)
- 1100-1220 on 15220
- 1100-1300 on 5855
- 1315-1630 on 9853/4915
- (NaE at 1205-1210, 1515-1530)

(via BBC Monitoring Svc)

CLANDESTINE Several DXers have reported hearing broadcasts in Spanish from Radio de Luego, La Voz de Cuba Libre, in the 41 meter band. Usually heard weekends and very weak, the clandestine was recently reported on 7019 kHz on a Sunday at 1200 by Al Sizer. Al wrote to the U.S. Citizens Committee for a Free Cuba in Miami, and came up with the following information from Paul D. Bethel, the committee's director:

"Radio Free Cuba does operate on something of a clandestine basis. This is to be expected. However, it does exist and may be an outlet for some pretty frustrated Cuban exiles. Actually, the location of the station fluctuates, suggesting that it is a mobile unit. Moreover, the signals you refer to often come from the Caribbean and my own suspicion is that it is beamed into Cuba 'por la libre' from a ship or boat. That is about all that I can say about the station. You may also have noticed the sporadic nature of the 'casts, prompted, no doubt, by Coast Guard and FBI vigilance."
(Al Sizer)

IRAN R. Iran's external service is now on 7038 kHz (ex 12175 kHz) at 1725-2130. The Iranian HS first pgm runs to 1720 on 7038, 15085, 7065, 3780 kHz. (BBC Monitoring Svc)

KARELIAN ASSR Radio Petrozavodsk, by Jorma Vesterinen, translated from the Finnish by Jyrki K. Talvitie... Radio Petropavlovsk regularly transmits the following programs in Finnish: Weekdays

0515 a review of "Leninskaya Pravda" (organ of Leningrad Communist Party. REW) or "Komsomolets" (organ of Young Communist League. REW)

0615 lecture in Finnish.

1300 TASS news in Finnish

1500 News of the Republic in Finnish

1515 News of the Republic in Russian

1630 lecture, interview, review, etc, in Finnish

SUNDAYS:

0515 as weekdays

0525 as 0530 weekdays

0805 lecture

0830 The Young Pioneer (Nuori Pioneeri) a review of a radio newspaper (?)

At other times the station relays Radio Moscow.

(Editor's note- I omitted the following from the weekday sked: 0530 Review of "Neuvosto-Karjala" ("Soviet Karelia", a Finnish-language newspaper published in Petrozavodsk. REW) DF)

The address is:

U.S.S.R

Karelian Autonomous Soviet Socialist Rep.

Radio and Television Committee of the Ministry

Petrozavodsk

Frunze Street 1.

(Note the typical "reverse" order of Soviet addresses. REW).....The Technical Manager is Mr. Donalds, a former Canadian Finn (and hence doubtless able to understand English reports. REW)...The corresponding staff does not know Finnish, so it is wise to address reports to Mr. Donalds.

---Acknowledged to and adapted from SDXK, FINLAND. via Richard Wood.

POSTSCRIPT, by Richard E. Wood

Petrozavodsk (in Finnish: Petroskoi) is the capital of the Karelian Autonomous Soviet Socialist Republic. Until July, 1956, it was the capital of the Karelo-Finnish Soviet Socialist Republic (technically a "Union" republic), one of the 16 that then existed. At that date, however, it was demoted to the present Autonomous status. The reasons are interesting. 1956 was the year of the signing of the Soviet-Finnish treaty & evacuation of the Soviet base at Porkkala, FINLAND. With the signing of the treaty and with the dropping of the word "Finnish" from the title, Moscow dropped its claims to govern Finland.

The status of the Karelian A.S.S.R in the NASWA Country List may be regarded as a historic relic, a left-over from pre-1956 days. Judged by its present status, however, if one Autonomous Republic active on SW is listed as a radio country, should not others, equally active, and of equal status, be so listed? Examples which come to mind are the Yakut A.S.S.R (Yakutsk, 4395) and Buryat A.S.S.R. (Ulan Ude, 4795 kHz). Petrozavodsk is on 5065 and has been heard in NA, especially in mid-winter. (Richard E. Wood)

Editor's note: While this column is not a "forum" type of column, this particular item is raised frequently, and is, I think, of general interest. I would point out that the NASWA country list is so designed that cys are not ever deleted. Names can be changed, but there are no deletions. Chairman of the NASWA Cy List Committee is Don Jensen, 5204 - 70th Street, Kenosha, Wis. 53140. He would, I'm sure welcome suggestions & comments on the NASWA Country List, from any NASWA member. (DF)

KUWAIT EBCMS reports the Home Svc sked (in Arabic) of R. Kuwait as follows:

0225-0400 s/on 9650
 0400-0730 9650, 9529, 6055
 0800-1100 21605, 11940, 9520
 1100-1500 11940, 9520
 1600-1800 15125, 11925, 9650
 1800-2215 15125, 9650 (BBCMS)
 The English transmissions are:
 0400-0600 on 15345
 1600-1830 on 15345, 9520
 1830-2100 on 11925
 (via BBCMS, Ron Howard, Sara Stillman)

LEBANON R. Beirut now on 11705 (ex: 15380) to Europe/Africa in EE/AA/FF at 1830-2030. And on 11810 (ex: 17890) to SA in PP/AA/SS, at 2300-0100. (BBC Monitoring Service)

MALAGASY Latest announced sked for the R. Nederland Malagasy relay is:
 1400-1520 to SEA on 15260 kHz
 1830-1950 to S. Africa on 6020 kHz.
 Per actual observations, 15260 is // 17810 only on Sundays. (Chris Lobdell)

MALAYSIA Voice of Malaysia announces the addition of a Thai program at 1315-1345 on 11900 (BBCMS) Might provide opportunity to hear what Thai sounds like (can also hear it over BBC & VoA). (DF)

NEW HEBRIDES Radio Vila put new tx in operation Christmas Eve. Current sked reads 0030-0130 on 7260
 0615-0730 on 3945.
 3945 replaces 3905. R. Vila plans to increase transmitting hours soon.
 (R. Australia DXers Calling, via Steve d'Adolf) Note: sunset at R. Vila will be before 0730 by mid-February. This one well worth looking for. (DF)

PAPUA VL8BM has moved from 11880 to 9575 and operates to 0530 s/off. (Arthur Cushen's "Pacific Report" via R. Ned., via Steve d'Adolf)

PORTUGAL IBRA Radio transmissions over the Sines transmitter are:
 1800-2111 daily, in Russian, Ukrainian, Bulgarian, German, Swedish, Rumanian, Italian, French, Czeck, Polish, Norwegian, Yugoslavian*, Estonian, Lettish, Lithuanian, Finnish, Hebrew, English (1945-2000 Thur, Fri; 1930-2000 Sat).
 (IBRA Radio sked, via Steve d'Adolf)
 *I was under the impression that there is no language called "Yugoslavian", with WRTS listing Serbo-Croat, Slovenian, and Macedonian as the languages spoken in Yugoslavia. Correct? (DF)

RUMANIA Sked direct from station shows the following broadcasts in English:

To Europe
 1300-1330 on 17710, 15250, 11940
 1930-2030 on 11775, 9570
 2100-2130 on 9690, 7195
 To North America
 0130-0230 on 15250/11940/11775/9690/9570/
 6150/5980 (5980 varies to 5985 -DF)
 0300-0330 as 0130
 0430-0500 as 0130
 To Pacific Area
 0645-0715 on 17850, 15250, 11940
 To Asia
 1500-1530 on 17760, 15250, 11940
 To Africa
 1100-1130 on 17850, 15380, 11885
 (via Steve d'Adolf, Leon Jeter)

SWEDEN Radio Sweden has made a slight change in the tx schedule from 21 December. Changes are:

1230-1330 in EE/Swedish to FE on 9670 (x: 6065)
 0300-0430 in FF/EE/Sw to WNA on 9725 (ex: 11705)
 0445-0545 in FF/EE to S.As. on 17865 (x: 17840)
 0515-0615 in EE/Sw to ANZ on 9745 (ex: 9585)
 (Radio Sweden, via DF)

SWITZERLAND ICRC txs coming up this year are March 20, 22, 24; May 15, 17, 19; July 24, 26, 28; Sep 25, 27, 29; Nov 20, 22, 24. The time for each tx is 0600-0700, 1130-1230, 1700-1800, 2300-0000. All 4 times used each day, all txs on 7210 kHz.

(Jim Zabransky)

SYRIA Damascus IS is sked:
 0400-0600 on 15290, 9585
 0600-0800 on 15290, 9585, 7105
 1100-1400 on 7105
 1400-1800 on 15290, 9585, 7105 to 1500

The Western/Turkish pgm
 1500-1600 Turkish on 7105
 1800-1830 Russian on 9655
 1830-1900 German on 9655
 1900-2030 French on 9655
 2030-2200 English on 9655
 2200-2300 musical pgm on 9655

The External Svcs:
 0500-0600 Hebrew on 7105
 1600-1800 Hebrew on 7105
 2330-0015 SS to LA on 15290, 15165
 0015-0100 AA to LA on 15290, 15165
 Hebrew pgm includes at 0545-0555 EE or Bulg (Su), Turkish (M), FF or AA (Tu). At 1745 to 1755, FF (Su), RR (M), Polish (Tu), GG (W), SS (Th), Serbo-Croat (F), EE (Sa).
 (BBC Monitoring Service)

AUSTRIAN RADIO HAS BEEN SAVED!!!

TURKEY In a QSL letter from Prof. Dr. Umran E. Colasan, Dir.Gen. of the Turkish State Meteorological Svc, schedule info is given for the V. of Meteorology. Both 6890 and 6900 kHz are listed, both at 2.5 kw. One xmtr is to be dropped in the near future, the other made permanent. An IS, played on "saz", is given 0455-0500. Then 0500-0700 Turkish folk music, weather 0800-0940 news for the public. 1200-1615

0700-0715 Dictation weather for small
0945-1000 meteorological stations and
1325-1340 for the press.

The station wants reports. (Don Jensen)

CHILE According to a report in the 20 Dec issue of BROADCASTING MAGAZINE, R. Balmaceda was shut down for 48 hours on 11 Dec due to "serious offences against the President and armed forces." Balmaceda, Agricultura, and Cooperativa were taken off the air during street violence the first week of December. The three have regional and provincial affiliations, and therefore large audiences outside of Santiago. (Broadcasting Magazine, via Steve Kamp)

ALGERIA A friend of mine visited Spain & North Africa the latter part of Dec & noted that Algerian HS txs on MW were denouncing RNE at various times 0900-0000. Could likely be heard on SW, too. (Steve Kamp)

PRESELECTOR Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656, announces that a preselector capable of tuning 3.9 to 22.5 MHz will be available 18 February 1972. (It has been a while since a true preselector has been available. DF) The unit is solid state, will match any antenna, has "very low noise figure". Those interested should write Gilfer direct. Initial quantities will be limited. (Gilfer, Bill Berghammer)

PROPAGATION COURSE R. Nederland will be broadcasting a Shortwave Propagation Course in the weekly "DX Jukebox", beginning Thursday, 9 March (local time-DF). The course will deal with many problems related to shortwave propagation, and how it is influenced by distance, season, time of day, atmosphere, solar & cosmic waves, ionospheric layers, one-hop & multi-hop trajectories, absorption, fading, the sunspot cycle, solar flares and storms, etc..... Printed text material is available free of charge to active participants, and full details of the times and wavelength of the broadcasts will be sent together with the first four lessons and the complete set of diagrams.

No technical knowledge is required to follow the course.

Enrollment is now open, and applications should be addressed to DX Jukebox, c/o Radio Nederland, P.O. Box 222, Hilversum, HOLLAND. (Harry van Gelder, via Bill Eddings)

This will be worth listening to - I would recommend that you write for the initial lessons now, before the course begins. (DF)

ENGLAND From 1 January, the BBC time signal was changed to 5 pips and a peep. Since 1924 it has been simply 5 pips. The change in the time signal is called for by international agreements effective 1 January 1972. (Ed Shaw)

AUSTRIA AUSTRIAN RADIO HAS BEEN SAVED!!! Franz F. Cyrus, Press Counselor at the Austrian embassy informs that "The Austrian government has provided the necessary funds for the station's operation". Maybe our letters had some effect on the decision to continue. (Ron Howard)

WEST AFRICA For those who may not have heard all of the West African countries, here is a list of actual operating schedules of a number of the stations there.

Dahomey Cotonou can be heard on 4870 from s/on 0515, past 0630, and from 2030-2200 s/off. S/off is 2300 Saturday. Best time is 0515-0600.

Gambia R. Gambia is often well heard on 4820 kHz from 0625 s/on, to 0800 s/off. BBC news is given at 0700, in English.

Ghana is well heard at many times & on many fqys. One of the best ways to hear the HS is on 4915 at 0530 s/on, past 0700. Also on 4980 at 0530-0700 & later. Both these fqys heard in the 2100-2215 time slot, too. 6130 can be heard around 2000 past 2100.

9545 noted 2100 past 2200. There is a bcst to NA at 2000-2100 on 11850v kHz, in English and well heard in much of NA.

Guinea Conakry can be heard on 7125 in the 0200-0400 period. 9650v audible 0300-0500 & later, also at 2300 past 0000. 4910 audible in the 2130-0000 period.

Port. Guinea Bissau audible in the 0700-0730 slot. The clandestine "Guinea" stn also said to be in P. Guinea. Can be heard on 4970 at 0615-0645. Bissau fqy is 5041 kHz.

WEST AFRICA(continued)

Ivory Coast RTVI can be heard on 4940 from s/on 0600, and from 2200-0000 s/off. The 11920 outlet has English news at 1830, and is heard until 0000 s/off. (see Jan LR)

Liberia Try for ELWA on 3227 in the 0630-0700 slot, on 4770 around 2200-2300. Also on 15170 around 2200....ELBC on 3255 is most often noted in the 2200-0030 time slot, at times with strong signal. It should also be available in the 0600-0700 slot.

Mali R.Mali is probably best heard on 5995, at various times. Currently the signal is good at 2345-0000 after Sines leaves the air. Mali s/off is 0000. 5995 also well heard in the 0600-0800 transmission, mixed with VoA till 0730, then clear till 0800 s/off. There is an English transmission Tuesday at 1500-1600 on 17725.

Mauritania R.Mauritania can be heard in the 0700-0800 time slot on 4850 kHz. The signal is weak, and often impossible to hear. Sundays try 9610 from 0800 to 0900, which should be clear.

Senegal 4890 consistently hrd in FF in the 0600-0800 period. 11895 around 2200.

Sierra Leone SLBS on 3316 often heard after s/on 0600, past 0700.

Sp. Sahara, Aaiun on 7230v from s/on 0800v. Is weak, but has been heard as late as 0900 in NA.

Togo Lomé can be heard on 5047 kHz from 0530 s/on past 0700, and 2030-2300 s/off. Strong, and easily heard.

This list is by no means complete, but can serve as a guide to hearing the stations in West Africa. As always comments are welcome, and be sure to report your loggings of these, and other, stations to Log Report Editor Jerry Berg.

Some comments on WRTH 72, from Bill Berghammer. (Please remember that these are only comments, not criticisms. The comments generally refer to changes that have been made since WRTH 72 went to press. DF)

Italy - RAI sked is from Fall 1971. The sked in WRTH 71 is a better guide to RAI's current operations.

Monaco -TWR sked now outdated, neglects many recent(short-term) test fqys.(Bill, is the omission of the test fqys the main difference, or is the sked completely changed now. WRTH cannot be expected to include test fqys. DF)

Poland - Doesn't mention 2nd net on 7180, 11715, elsewhere. (See this issue of LN for current sked for Poland, from BBC MS. DF)

Sweden - has new sked. (See changes, page LN-3. DF)

CONGO(ZAIRE) - 15265 should read 15245v.

Egypt- no mention of many recent test fqys, since 7 Nov.(Again, I don't think they can be expected to include test fqys.

Ethiopia - add 9587v to R.Ethiopia, maybe ex: 7190.

Libya - add 8630(listed in back).

Seychelles - 11950, ex: 11935

China - new sked in effect

India some changes listed Jan ADXN.(We'll try to get those included-DF)

Japan - sked given is fall sked. Change 15310 to 15390 to LA.

Pakistan -Karachi, add 6235, 7290 for 1945-2130 to Eur. E.Pak.sked meaningless now. (see Bangladesh sked, page LN-1)

Syria - changes shown in back. (page 383-DF)

Pacific - Tahiti- add 9735v, maybe ex: 3223. (Noted here 9730-DF)

Solomon Is - is old 7235 or list 9775 correct?(Ralph Perry also noted this. SI has been missing from 7235 for some time. 9775 bears some checking! (DF)

Neth.Antilles - TWR sked is Fall 71, now outdated.

Bolivia-9607 still not listed. R.Pirai active here, ex: 3320

Colombia -R.El Sol now 5980, ex: 6140. LV de Cali now 6140 ex: 6195. R.Vision now 6200v, ex: 6105v.(But latter noted back on 6105 recently; don't know if still there-DF)

Ecuador- HCJB 1800-2200 to Eur now on 11780, 15300, 17740, ex: 15300, 17780, 21460.

No mention of Dutch pgms, no mention of test fqys. (I would submit that 11780 is ex:21460, and that there has been no change in the 15300 fqy, hi. DF)

(Bill Berghammer)

NIGERIA WRTH 72 lists 4900 as NBC Maiduguri(Ralph Perry)

UNIDENTIFIED SIGNALS Bill Berghammer has offered to coordinate efforts to identify some of the many unid signals that abound in the SWBC bands. Of particular interest are the many signals on other than nominal broadcasting frequencies. From my experience as Log Report editor, I know that many of these stations are logged, but never reported, even as an UNID item, and that the ones that are reported are usually just ignored, with no effort made to ID them. And many of these unids, especially the split freq ones, offer some good DX when/if they are identified. So, if you have unid sigs you would like to get people working on, in an effort to ID them, send info to Bill Berghammer, P.O. Box 61, New York, NY 10011.... One thing should be made clear: this is not a second loggings section. Rather, it is an effort to ID some of the many stations that are usually ignored.... There follow some items Bill has not yet been able to identify. Perhaps some of you can be of help in identifying these. Send info & comments to Bill Berghammer, at the address above.....

3945.8v, 1115 unid lang, since 13 Dec. Which of the 5 Asians?... 3980.6v, 1130 unid lang, since 14 Dec... 4650.3v, 1215 unid Asian, 16 Jan... 4700.5v, 1215 unid Asian... 4746.2v, in PP, I think, at 0815... 4774.5v, new LA here, maybe DR (yes, Onda Musical-DF)... 4793.2v, 1215, USSR drifting?... 4878.1v, 1130 unid Indochinese, first hrd 15/16 Nov (also in Finland). Maybe new Hanoi or Gai-phong... 4972.3v, 0930-1000 unid FF Stn w/US "soul" mx (very current), 11 Jan. Haiti?... 5024.5v, 1230 UNID, too late for most LAs... 5054.8v, 1200 unid Asian 17 Jan. Mongolia?... 5065.0, unid here 1200. Petrozavodsk thru Arctic darkness? (I think it was Al Sizer hrd Petroz. at 1100; this likely them-DF)... 5977.1v, 0945 f/o, Brazil, Paraguay or Sabah? (I've had this abt same time. No idea yet-DF)... 5982.6v, 0945 unid sig, LA or Sabah?... 6040.0, 1300 Indian mx, good sig prob AIR but not yet certain... 6157.0v, 1100 unid LA w/slow, uninterrupted Mantovani-type mx, 17 Jan. Haiti?... 6016.0v, 0300 recently new Colombian. (WRTH72 shows R. Mira-DF)..... 6019.1v, s/on 1000 R. Ensuartes(?), is new Venez stn. Maybe owners name. (Believe Earle Hall hrd ID for listed R. Anaco-DF)... 7182.0v, 0915 PP; spur, ham or clandestine.... 7259.2v, 0730-0800 f/o, W. Afr lang, similar to 5047, but not dual... 9668.0v, 0900 unid open carrier after chimes IS, first hrd 30 Nov... 9740.5v, 0415 unid stn hets VoA. Is it Chile?.... Remember, comments & info on this feature go to Bill Berghammer....

NIGERIA see Jan LN. Enugu listed there for 6035, but has recently moved to 6025 where heard from s/on 0430 to 0445 when R. Portugal returns to the air. Is the NBC outlet at Enugu. (DF)

SEYCHELLES SCDX reports receipt of telegram from FEBA after RS moved from 11950 to 11780 kHz from 21 December. Telegram reads: "WE APPRECIATE YOUR MOVE OFF 11950 KHZ ON 21ST MANY THANKS BEST WISHES FROM FEBA MERRY CHRISTMAS". Shows two stations that are cooperating to improve reception. R. Sweden would like reports on the 1830-1930 tx on 11780. (SCDX)

PORTUGUESE TIMOR In Jan ADXN, Australian DXers David Foster and Stuart Gunning report reception of Dili from 1140 past 1300. This one rarely heard in NA, due to the ute stn on freq. But Dili IS OPERATING now and is certainly a worthy catch. (ADXN)

NEPAL Kathmandu now on 5000 kHz, ex 9590 kHz, and still //4600. (Victor Goonetilleke, Ceylon, in Jan ADXN) No time given

BULGARIA Sofia now relaying R. Moscow English at 0130-0200, on 7255, and the same as 9700 kHz. (Bill Berghammer)

120/90/75 meter survey Work is proceeding on a survey of these bands, similar in format to the 60 meter survey recently published. Some preliminary notes are in and are of interest: 3277, believed Srinigar, Kashmir at 1245-1300. Said to operate 0130-0250 & 1130-1700 on this freq (Jensen) 2307, Unknown Indonesian 1300-1600 (Bob Bundy) Unid Indonesian on 2431 at 1200 (Bundy) On 2450 there is a SEA lang bcst at 1500 & 1900 (Bundy). Traces of PP on 3268 in the 1000-1400 slot, presumably Timor (Bundy)

That brings us to the end of another LISTENER'S NOTEBOOK. Thanks to all who supplied info. Keep it up! Remember that skeds, notes, news items relating to SWBC, etc are needed each month. You keep supplying the material and we'll keep LN running at six pages.

THE

L O N D O N

Report to:

Jerry S. Berg
36 Eastern Avenue
Lexington, Mass. 02173

Deadline: 12th

;;;;;;:.....

Another big month, especially on the low bands . . .

- 2340 CHINA Foochow hrd 1217 w/CC cmtry, fair sig (DJ).
2360 GUAT R.Maya w/mx, SS cmtry 0200, ID at 0230 (DJ).
2390 GUAT/MEXICO Huayacocotla and Atitlan presumably the stns mixing w/low het at 0015 (GH).
2446t REUNION Some traces of pops fading in and out arnd 1550, but nothing definite (BB). See 1/72 LR, my logging might have been in error. Could have been a French Canadian MW harmonic. ES says 2446 has been replaced by a MW outlet (RWP). Thanks (Ed).
2450 HAITI 4VSO, good 0905 w/hymns on Xmas morning (RWP).
2510 S.KOREA Taegu listed, tlks and mx 1253, pips on hour, chimes, trumpet fanfare, nx in Korean. To 1345 f/o (TS).
2800 CHINA Thought to be Fukien 1230-1245, weak in lang (ARN).
2850t N.KOREA Pyongyang, talk by lady at 1240 (TS).
3215 DOM.REP R.Libertad, ID, ads, mx 0128. Fair (AM). Mx and IDs 0300 (EB), exc 0325 (RWP), anmts and into nx at 0425 (ER).
3227 LIBERIA ELWA, Afr mx above noise lvl at 0620 (RWP), rel prgm, hymns 0646, EE ID 0655 (DW), into local mx 0655 (JDT).
3230 PERU R.El Sol, fair w/LA ballads 0350, but ute QRM (RWP).
3245 VENEZ R.Libertador, fair 0245 (SC), SS tlks 0347(RWP), mx 0515(MAJ)
3250 S.AFR SABC, strong w/orch mx 0335, rel prgm 0400 on Sun (RWP).
3255 LIBERIA ELBC, N:E 2153-2205 t/o, fair w/ute QRM (FI).
3255 VENEZ LV Tigre, fair 0250 (SC), long IDs and mx to 0300* (HS). Fair w/sports 0340 (RWP), 0500* w/anthem (MAF).
3275 VENEZ R.Mara, LA mx, IDs 0032(AM), 0257 (SC), ID 0545 (MAF).
3277t S.KOREA VoFK, seemingly EE ID 1059, but vy weak and fading (BBy).
3276t KASHMIR Indo-Afghan mx 1215, pause 1230, weak unintelligable ID by YL (ES).
3280 GRENADA WIBS hrd here 1043 on Xmas, weak but definite ID (HS).
3286 PHILIPPINES PBS, ID 1400, then tlk and some mx. Good sig (SC).
3290 GUYANA GBS, N:E 0145 (SC), mx 0300, past 0430 (EB). Xmas mx 0304 (HS), seemingly all nite w/rel prgm, fair 0630, strong 0730 (RWP), TC 0730 (TS), IDs, ads 0845 (MK).
3295 GHANA IDing as Ghana B/C Sys, 2253-2300*, tlk, mx (JDT).
3295 INDONESIA Samarinda, fair in lang 1435, strong QRM (SC).
3295t ZAMBIA Fair w/pops 0404 t/i, lang nx 0430, fading badly by 0445(RV)
3300 GRENADA WIBS, vy poor w/EE tlk 0200 (SC), rel prgm to 0212v*(RWP).
3310 MANCHURIA Presumed Changchun in CC 1157-1220 (GD), cmtry in CC by YL 1206 (DJ). Peking, *1200 w/revol songs (TS).
3315 CHINA Unlisted stn good here 1003 w/HS prgm (SK). 1230* (TS).
3315 INDIA Bhopal, fair in lang at 1345 (SC).
3315 MARTINI QUE ORTF, opera mx, FF anmts 0200 (RWP), ditto 1015 (MK).
3316t SIERRA LEONE Freetown, RBC nx 0704, ID 0718, Afr mx (DW).
3320 N.KOREA Pyongyang, fair w/songs at 1225 (TS).
3325 GUAT R.Maya, hrd 0520 (MAF), ID 1130 and into clas.mx (HM). 3320, exc 0300, //2360 (C-W).
3330 UNID. w/SS mx under CHU at 0210 (SC).
3335 TAIWAN Taipei good w/CC tlk at 1415 (SC).
3339 ZANZIBAR IS 0328, s/on anmt 0330, into prayers. Fades or gets hit by ute QRM arnd 0350 (RWP, SD, DH).

- 3345 PHILIPPINES Call of Orient, good w/EE rel prgm at 1410 (SC).
- 3346 ZAMBIA Lusaka fair w/Afr mx 0300, but faded fast (SC), EE, Afr mx, pops, TCs arnd 0318 (RWP).
- 3350 GHANA Ejura, 2300* after hymns (JDT), good w/trlk 0615 (SC), good w/vernac prgm at 0630, several mentions of Ghana (SK).
- 3355 DOM.REP LV Romana, ID 0550, then mx prgm (MAF).
- 3355 INDIA Kurseong, fair in lang 1405 (SC).
- 3360 GUAT LV Nahuala, marimba 0525 (MAF), ID, anthem, s/on anmts at 1100 (JR). Exc w/marimba mx at 0245 (C-W).
- 3365 DOM.REP R.Exitos, LA mx arnd 0420 (ML), ditto 0650 (JDT).
- 3366 GHANA Accra, rel prgm, EE ID 2344. Poor (AM).
- 3380 GUAT R.Chortis, fair w/marimba, ID, anmts at *1100 to 1115 t/o (JR), marimba and ranchera mx at 0255 (C-W).
- 3380 MALAWI Blantyre, Afr mx 0440, then EE anmts, comls (RWP).
- 3385 BRAZIL Presumed R.Cl.Teresina, mx at 0815, apparently *0800(DF).
- 3385 FR.GUIANA Cayenne, clas.mx 0028 to 0103* on a Sun (JDT).
- 3385 N.BRITAIN R.Rabaul, vy good w/native mx, Pidgin tlks 0815, but f/o by 0840 (MK), 1300* w/GSTQ (TS).
- 3385 VENEZ R.Barcelona, SS tlks 0340, nx 0345 (HS).
- 3390 ECUADOR R.Zaracay, good in SS 0415 (SC), mx, few IDs at 1036 (AM) Definite ID at 1100, anmts, LA mx. Fair (HS).
- 3395 DOM.REP R.Santiago, vy good w/ID, LA mx, ads, slogans, TC at 0404 (HS). 3405, ID and tropical mx hrd 0330 (EB).
- 3535 CHINA Fukien, revol mx 1400, CC tlk, 5 pips on the hour (TS).
- 3560vt N.KOREA Pyongyang, tlks 1215, to 1250* (TS).
- 3883 CAPE VERDE R.Cl.Cabo Verde, good w/PR songs 2207 (DH). 3885, 0130-0210 t/o, strong, on New Years eve. Many IDs (FI).
- 3893 UNID. RRI stn, Indo mx 1150, RRI IS 1159, nx relay 1200 (BBy).
- 3900 CHINA Peking HS, vy weak tlks 1230 (HS). This is Fukien PLA (BBy)
- 3905t INDIA AIR, songs, YL ancr 2320, hvy ARO JRM (DH).
- 3905t INDONESIA Djajapura, mx 0830, RRI IS 0858, ID 0859, then local nx. W.Irian place names. May be the "India JRM" in 1/72 LR (BBy).
- 3910 RSFSR(As) HS hrd 1337 w/concert mx, //3995 (GH).
- 3985 SWITZ SBC, GG nx at 0733 (JDT).
- 3995 USSR RR anmts, organ mx at 1200 (TS), likely Mayak, RR anmt 1340, natl mx. Unusual to hear Soviets in the 75 mb (GH).
- 4380 CHINA Fukien, HS hrd at 1203 (SK).
- 4410 N.KOREA Pyongyang, Jap 1000-1200, //6540, ute JRM (BBy). Mx, revol play at 1120. HS? (MK). Apparently not (Ed).
- 4500 AUSTRALIA VNG-Lyndhurst, pips, ID every 5 mins at 1100 (JP), ID twice every 1/4 hr, arnd 1110 (MK).
- 4560a TURKS, maybe, rel svc frm 2313 t/in Xmas eve, choir, many hymns, tlk but not in EE. Off after anthem 2400. ARN also hrd (RWP).
- 4565 UNID. Soft-voiced YL in oriental lang, mx 1352, anmt 1357, theme mx, but hit by local JRM. Not //4410 (GH).
- 4600 INDONESIA Mx prgm 1635-1700, then anthem and off. Was // 5047-Jogjakarta, but probably a net prgm. Vy weak. JTH not known (BBy).
- 4610 RSFSR(As) Khabarovsk, weak in RR at 1210 (DF).
- 4615 CLANDESTINE perhaps, not Peking or Pyongyang. 1420-1432* in seemingly Lao lang, weak but fairly clear (BBy).
- 4635 TADZHIK Dushanbe, local mx 0030, songs, good clarity (AEM). Fair sigs, tlk by M&W at 0200 (SC).
- 4650 CLANDESTINE Pathet Lao 1230 past 1400, //6199. Also 0955 (BBy).
- 4680v ECUADOR R.Nac.Espejo, ID, comls at 0210 (AM), fair w/ID, SS mx 0440 (JBa), presumed at 0640 w/mx, Ne Years noises (ES).1115(JP).
- 4698 INDONESIA, location unknown, w/RR news feed at 1200. Poor (BBy).
- 4725 BURMA Rangoon, Oriental mx, lady ancr, to 1400* (AEM).
- 4730 AZAD KASHMIR Muzzafarabad, weak frm 1233 w/Pak mx, some tlking. Faded by 1254, next day past 1320 (GD). Presumed, vy weak 1202(DF)
- 4737 ECUADOR R.Nac.Progreso, good 0959, Andean mx, no IDs (ES).

- 4755t COLOMBIA Em.N.Mundo, net ID 1115, election*tk, few vocals (SD).
 4760 VENEZ R.Frontera, 0555* w/national anthem (MAF).
 4765 CONGO RTVC, fair w/FF anmt 2052 (DH), *0430 w/Afr mx (TN). Tlks 0530, //6115, both good (EB,DF).
 4765 ECUADOR CRE, mentioning CRE at 0419 after TC (SK).
 4765 UNID. w/mx, tlks between. Seemed Indian or Malayan type mx, maybe Djakarta. Hrd 2350-0020 (AEM).
 4770 LIBERIA ELWA, EE rel prgm 0725, superb lvl (ER).
 4770 VENEZ R.Bolivar, good w/ID, anmts, mx 0052 (HS).
 4775 AFGHANISTAN Kabul, N:E 1400, ID 1405. Strong (AEM). Tentative, tlks and local mx at 1314-1337 f/o (JDT).
 4775 BOLIVIA R.Los Andes, ballads, anmts, good ID at abrupt 0400*(DW).
 4775 DOM.REP Onda Musical, mx, ads, TC 0336. Down frm 4782 (DW). Exc at 0340 (GD). 4782, fair-good w/LA mx, 1200 (AM).
 4775 INDIA Gauhati presumed, fair, local mx frm 1301 f/i (GD).
 4777 GABON Libreville hrd 2030 w/ID, mx (DH), FF tlk 2120 (DF). IS and anthem 0435, ID, Afr mx(TN), mx 0520(SC), 0555 t/i to 0630* (MK).
 4780 AFARS & ISSAS Djibouti, local mx and pips 2000, ID and anthem to 2005* (DH, ES).
 4781 HONDURAS R.Juticalpa, clear ID 2355, then tropical mx (C-W).
 4780 USSR RM, hrd after Djibouti off at 2005. Bells 2100 (DH).
 4783 MALI Bamako, good w/vernac news 2051 (DH), tlk 2155, mx 2200(JDT).
 4785 AZERBAIJAN Baku, RR tlk and mx 2047, good sig but ute QRM (HM), relaying Moscow w/IS at 2050 (DH).
 4788t TURKS EE tlks and pop mx, some Carib.mx 0630.Fairly certain(ES).
 4790 VENEZ Ondas Portenas, pop and LA mx at 2303 (JDT).
 4794 ANGOLA R.Comercial, weak w/FP anmts, soft mx 2150, jingles, old US pops. Heavy QRM from Brazil (RWP).
 4795 ECUADOR LV Caras, ID 0006, then mx (C-W), ID 0218, tlks and SS mx (DS), rock mx 0315 (RWP). 4797, hrd at 0500* (SC).
 4800 LESOTHO Maseru, man talking thru noise 0403 after Lara off (MAF).
 4800 VENEZ R.Lara, LA mx and IDs 0014 (TS), good 0310 w/ballads (RWP).
 4810 VENEZ R.Popular, strong w/SS prgms, ID 0253 (HS).
 4815 CHINA See 1/72 LR. It's Peking in RR, //7030, ID 1155, IS 1200, more RR, heavily jammed (BBy). RR ID hrd 1500 (AEM).
 4815 PERU R.Amazonas, SS nx 0327, few IDs (DW), ID 0408, mx (DS).
 4815t UPPER VOLTA Ouagadougou, vernac talks, chants 0646, 0746 f/o (MK).
 4820 GAMBIA Bathurst IS 0628, EE ID, chants, BBC N:E 0700 (ER, MK).
 4820 HONDURAS LV Evangelica, EE rel prgm 0300 (TN,ML), poor arnd 0400, still EE (BdL, KM). 0430* (JE). Hymns 0546(JDT), 0800 Xmas (RWP).
 4820 RSFSR(As) Magadan, pop mx, RR anc 0752, RM ID and relay 0800, //5940, 6190 (BBy), strong w/play 0931, seemingly //Vlad.-6035(SK).
 4825 ECUADOR R.Luz y Vida, no ID, but hymns and Ecuad mx on Xmas eve, vy weak 0825 (RWP), Andean mx well hrd at 1013 (ES).
 4825 DOM.REP LV Fuerzas Armadas, mx 2245, nx 2300 (AB), 0433* (JBa).
 4825 TURKMEN Ashkhabad, piano mx clear 2110, fair sig (DH).
 4830 VENEZ LV Tachira, LA mx hrd at 0515 (JDT).
 4832 COSTA RICA R.Capital, hrd w/5 min EE segment 0050 (RWP). ID, mx, comls, etc arnd 0400 (TN, KS, BdL, SK).
 4835 CHINA Unlisted stn strong at 1000 relaying HS (SK).
 4835 SARAWAK Kuching, chants 1550, ID, anthem 1558, 1600* (DW).
 4835 UNID. w/tlks, LA mx, only when R.Capital mute. Hrd 0028-0135 t/o(JI)
 4839 INDONESIA Island mx 1348, then closed w/gongs or chimes (JDT).
 4840t INDIA Bombay, tlk 1437, pol discussion, tent. ID 1500 (DW).
 4840 PERU R.Atlantida, tlks and mx 0325, IDs (DS).
 4845 BOTSWANA Gaborones, good w/Afr mx and tlks 0405 (SC).
 4850 MAURITANIA Nouakchotte, chants 2112, AA nx (ER), FF 2130 (MW), ID 2200 (ES), chants thru RTTY 2215 (JMS). ID and anthem at 2230* (TN). Weak at s/on w/guitar IS 0628, anthem, FF ID, chants (JR).

- 4855 BRAZIL R.Taubate, EE pops and an ID 2340-2350 (ARN).
 4855 INDONESIA Palembang, mx prgm to 1230, fair-good, low modul (DH).
 4860 VENEZ R.Maracaibo, SS nx 1103 (ML), orch.mx, IDs arnd 2300 (KS).
 4863 BRUNEI Lite mx 0920, ID 0930 (BBy). Pops 1415, ID 1429, anthem (DW).
 4865 AZORES P.Delgada, loud 1830 (ES), PF tlk 2242 (MW).
 4865 BRAZIL R.Cl.do Para strong at 0200 w/ID (SK).
 4870 DAHOMEY Cotonou, *0514 in FF (SK), fair w/Afr mx 0550 (DF).
 4875 BOLIVIA Cruz del Sur, LA mx, TC, ID 2301 (Mw), ditto 2315 (JDT).
 4875 S.AFR SABC, Afrikaans ID 2200, welcoming in New Years on extended sked (HS), IS 0358, mx and comls (TN), and good at 0416 (SK).
 4880 DOM.REP R.Comercial, many IDs 0500-0530 (JR), ballads 0530 (Mw), also strong w/tlk prgm 0914-0947 (SK).
 4880 VENEZ R.Universo, ID, TCs 0045 (HM), over D.R. at *0947 (SK).
 4880 ZAIRE Kinshasa good w/Afr mx at 0645 (SC).
 4883 CHINA Peking, weak w/songs and tlk 1255, pips on the hr (TS).
 4885 COLOMBIA Ondas del Meta, ID 0445, Xmas mx prgm (C-W).
 4885 RSFSR(As) Novosibirsk, fair 1005 in RR, other FE RRs stronger (SK).
 4890 HONDURAS R.Lux, ID 0030, Xmas eve show (C-W).
 4890 PAPUA Pt.Moresby, variety mx 1120 (HS), orch.mx 1150 (RWP), nx 1307, TC, ID (JBa). Prayer before 1359* (TB). New Years prgm 1300-1430 (LS), pop mx to 1400* w/GSTq (AEM).
 4890 SENEGAL Dakar, drum IS at *0600, into AA chants after FF ID. Nx 0635 (JR, DF). Tlk 0705 in FF, chants, AA nx 0730 (ER).
 4895 RSFSR(As) Tyumen and Ashkhabad listed, RR tlk, mx 0510 (SK).
 4900 INDONESIA Gorontalo, mx 1245, chimes 1300, then nx (BBy).
 4900 NIGERIA Maidugari, good w/Afr mx 0550 (DF). AA chants, EE ID 0400, then soul mx (MK), N:E 0600 (EB). Definitely mentioned "studios at Enugu" at 2100 (ES).
 4900 VENEZ R.Juventud, guitar mx 0427, ID, anthem to 0430* (JBa). Also EE and SS pops at 0210 (DS).
 4904 CHAD Ft.Lamy, pops 2020 (ES), ID 0530, AA mx, FF ID 0600 (KS).
 4907 KHMERE Phnom-Penh, native mx 1545, anmts, 1600* (JW).
 4910 COLOMBIA Em.Gran Col, SS tlk 0320, f/o 0430. Poor (DS).
 4910 GUINEA Conakry, nx in FF 0615 (JDT), tent. 0430 w/Afr mx (TN).
 4915 CHINA HS stn strong 0940, not //4960 (SK). 4914, Peking, CC mx to 1200, pips, then off w/"East is Red" (TS). Unid, tlk to 0958, anthem, into CC from seemingly Viet. No familiar Peking IS (BBy).
 4915 GHANA Accra, Afr mx 2230, N:E 0600 (DF). Into lang 0615 (RM), poor overall arnd this hr. ID, drums 0600, then N:E (CP).
 4915 KENYA Nairobi, poor 0325 w/native tunes, Swahili tlks (MK), nx 0400, mx 0415. Hrd once only (JDT).
 4920 AUSTRALIA Brisbane, wx 1255, world nx, 1302* (JBa).
 4920 HONDURAS R.Progreso, ID 2330, Xmas mx (C-W), poor at 0835 ID (RWP).
 4920 INDIA Madras, lang tlks, pol cmtry, 1412-1424 t/o (DW).
 4920 VENEZ R.Caracas, pops 0345, to 0410 t/o (TN).
 4923 ECUADOR R.Quito, good w/SS mx at 2330 (JP).
 4925 MOZAMBIQUE L.Marques, pops 0320-0340, Afrikaans comls, almost all in EE though (SK).
 4926 RIO MUNI Bata, fair w/old pops, rock, jazz 0445, SS anmts (RWP).
 4930 C.RICA R.Reloj hrd here, ID 0728, LA mx (ER).
 4930 DOM.REP R.Mil, LA mx and SS IDs at 0244 (ML).
 4931 INDONESIA Surakarta, vocals, ID 1458, IS 1459, then nx(?) (DW).
 4932 NIGERIA Benin City, ID 0500, EE rel svc (SK), pops, ID 0533 (HS).
 4935 BRAZIL R.Poti, PF IDs and tlk, nx 0345, to 0355* (KS).
 4936t ANGOLA Believe the PF spkr here, best 2030-2130, is R.Cl.do Lobito. Varied mx, comls, believe that ID was hrd. JRM (Ed).
 4940 VENEZ R.Yaracuy, back on the air, 0145, mx, many IDs (ARN). Also hrd well w/ID and LA mx at 0005 (AEM), pops 0115 (HM), and off w/anthem 0400* (ER). And ID and kids mx prgm at 1039 (AM).

- 4945 S.AFR SABC, coml svc, vy good 2230 (ES), pop mx, many ads 0005 (DW), EE tlks 0233 (HS), ads 0310 (HD), 0410 (SK).
- 4955 BRAZIL R.Cult.de Campos, sports 0413, ID 0421 (GD).
- 4955 COLOMBIA R.Nac, IDs, nx 0120 (ER), BBC nx relay 0445 (JR).
- 4955 UNID. man chanting or wailing, stringed instr, 2110. Asian? (CL).
- 4960 CHINA Peking, good in CC 0935 (SK), lady in CC 2304 (JDT).
- 4962 DOM.REP R.Antillas, ID and mx 0330 (EB), dance mx 0500, 0530* (CP).
- 4965 COLOMBIA R.Santa Fe, mx 2345 (JP), ID 0114, guitar mx, good (JBa), ads and mx 0605 (ER), ID 0620, mx still there at 0635 t/o (RM).
- 4965 S.AFR SABC, EE rel svc 2105 (HS), wx 2107 (DH), anthem 2116* (MW). New Years prgm 2204 (AM), EE 0405 (SK), mx, comls 0415 (TN).
- 4970 CLAND Free Voice of Guinean People, IS, FF ID 2100, spirituals, jazz, best arnd 2130. To 2204* (LM).
- 4972 CAMEROUN Yaounde, Afr mx 2115, FF 2120 (ER), Afr and US pops to 2140 t/o (FI), Afr mx 2230 and later (DF).
- 4975 PERU R.del Pacifico, lite mx 0627, ID 0630, tlks. RTTY QRM (DW). Unid. in SS, hymns, man ancr, 0610-0635. Ute QRM (LM).
- 4980 GHANA Accra, EE ID and prgm summary for New Years, 2158 (AM).
- 4980 VENEZ Ecos del Torbes, siren 1100, nx, sports, tlks. Vy good (JBa).
- 4990 CHINA Changsa in HS 0930. ID hrd, but couldn't make out Changsa (SK).
- 4990 KAZAKH Alma Ata HS, 0107 w/RR tlks, good sig (SK).
- 4994v SUDAN Omdurman, AA chants 2035, //9505, 11835 (BBy), nx 2140; IDs to 2200*; almost daily (HS). AA nx 0435 (KS), chants 0410 (TN).
- 4995 BRAZIL R.Br.Central, mx, ads, an ID at 0158 (AM).
- 4996 PERU R.Andina, SS, Andean mx hrd at 2232 (ES). Maybe, 2300 (LM).
- 5000 Unid. hrd 1500-1520 w/nx, mentioning Bangladesh. Indian style mx. Maybe Nepal? (AEM).
- 5010 CAMEROUN Garoua, drums and instr mx 2110 (ES), and 2202* (RWP).
- 5010 PERU R.Eco, ads 0230, ID 0238, weak (DS). SS ID 0240 (ARN).
- 5010 SINGAPORE RS, EE prgm to 1230, ID, // 5053, 11940, all still in // at 1600 (BBy). Oldies 1505, EE anmts, ID and TC 1515 (DW).
- 5012 RHODESIA Salisbury, hrd New Years 2305-2341, pop mx, several definite IDs, TCs, EE comls till lost in LA QRM 2341. Poor (JR).
- 5015 RSFSR(Eur) Arkhangelsk (tent), RR pops 0651, pips, ID 0700 (CP), nx and tlks 1930, then drama (SD). Pips 0500, RM HS ID, nx (SK). Vladivostok (?), tlk 1200 past 1330, good sig, lite mx (TN).
- 5015 GRENADA WBS, N:E 2345 (ML, HS), ID and nx 2200, BBC nx 2300 (MW, TN)
- 5020 COLOMBIA Trans.Caldas, New Years celebration at 0520 (DS).
- 5026 UGANDA Kampala, EE Xmas prgm 1930 (ES), pops, talk 2100, to 2107* (JDT). Hrd one day w/mx, drums 2059, then lost, and on Xmas eve at 2155 and 2310 (RWP). Mx, EE ID 2100, off 2108* (CL).
- 5030 VENEZ R.Continente, many IDs 0350 (MK), off 0500* (JR, MW).
- 5033t ANGOLA R.Cl.Cabinda, low PP 2115, definitely Afr (ES).
- 5035 C.AFR.REP Bangui, vernac tlks 2005 (AEM), N:E 2043, pops 2045 (CL), FF tlk 2220 (TN). Fair at *0430, Afr, some rock mx (SK). Strong in FF 0510 (SC), speeches 0535 (KM), rel svc 0600 (JMS). Tentative, FF pops 2135, nx 2200, ID. Weak reception (RD).
- 5040 BURMA BBS, Burmese songs and anmts 1230-1330 f/o (TN).
- 5040 GEORGIA Tbilisi, *0158, anthem, sig improves (HM).
- 5041 PORT.GUINEA Bissau, PP mx 2115, nx 2200, IDs to 2302 t/o (SD), rock mx to 0100* w/AP (KS). Fair *0700 (RWP), also at 0800 (SK).
- 5046 UNID., hopefully Cook but maybe LA, island mx and tlk 0700, could not ID lang. Occasional ute QRM. Vy, vy poor (BBy).
- 5047 INDONESIA Jogjakarta, weak in lang 1205 (RWP), pops, YL anmts 1306-1340, two good IDs (JR).
- 5047 TOGO Lome, N:E 1954 (MW), EE also 0645 Tues (RH). FF mx 2223 (HS), Xmas mx 2225 tune (DF), still on at 0120 on Xmas eve (RWP).
- 5050 VENEZ R.Mundial, SS nx 2041 (MW), fair 0310 (SC), many ads and IDs, but poor-fair sig at 1101 (AM).

- 5052 SINGAPORE RS, N:E 1410, then pops. Good sig (DM).
 5060 ECUADOR R.Catolica in SS, some QRN, 0245 (SC).
 5060 S.YEMEN Aden, chants till 0345, nx and tlks (DH).
 5062 VENEZ R.Litoral, vocals 0109, many instr numbers, to 0257 SS ID, anthem, to 0258* (SD).
 5063 ALBANIA Tirana, hrd in Albanian 0504, 2030, also 1100 (DH).
 5084 INDONESIA Medan, tlks, off 1400 w/"Love Ambon" (AEM).
 5804 YEMEN Sanaa, AA chants 0332, stringed mx 0400, f/o 0415 (JZ). AA tlk 0345, probably nx. Also at 1925 w/chanting (DH).
 5868 UNID., maybe N.Korea, oriental mx 1230, man ancr (ES).
 5875 HONDURAS HRN, ID 0303, tlk by man (DM), LA mx 0520 (DF). Ss ID 1202 (DJ), fair w/CW QRN at 1315 (JH).
 5905 UNID. 1135 w/M-E nx, then short mx interlude, YL ancr, more mx 1140 (ES). Pops to 1057, then tlk, but jamming (BBY).
 5905 RSFSR(Eur) RM, pop and jazz mx 2129, then GG prgm (BBy).
 5930 CZECH Prague, Lstnrs Club hrd at 0145 (WT).
 5960 FRANCE Paris, FF nx 0600, all over HCJB (EB).
 5964 HONDURAS LV Occidente, ID 1633 (C-W). 5961, marimba 1230 (EB).
 5965 BRAZIL R.Guaiba, ID and pops 0129 (MW), piano mx at 0804 (DF).
 5970 PERU R.El Sol, pops, IDs, ads 0706-0725, all SS (JR).
 5977 UNID. w/sermon, Xmas mx, one number in EE, from 2305 on Xmas (DF).
 5980 EL SALVADOR YSS, EE and LA mx 1225 (JH), local mx 2355, poor (ML).
 5980 LEBANON Beirut, AA, mx, 0430 past 0500 (DF).
 5980 PERU R.Panamericana w/Peruvian spot at 0521 (SK).
 5980 SIERRA LEONE Freetown, mx, IDs, TCs, ads 0757-0816 f/o (JR).
 5985 TANZANIA RT, celeste IS 0228, ID, anthem, mx, tlks, nx at 0400 (MK, ARN, JFr). Still audible at times after RFE s/on 0400 (DF).
 5989 ARGENTINA R.Splendid, time, IDs, all SS, at 1120 (ES).
 5989 VENEZ Ecos del Torbes, clear ID 0135, //4980 (EB). R.San Cristobal, piano mx 0220, runs past 0500 (DF).
 5995 MALI Bamako, pops 2300 (TN), FF ID 2337 (SK), in the clear after DW off 2345 (DF). Afr mx, FF anmts frm 0600, past 0800 (DF), 0759* (JZ), best after VOA closes 0730 (RWP).
 5995 VATICAN VR, ID and off in EE at 0102, good (AM).
 6000 AUSTRIA Aldrans, vy weak frm 0412, //6155. 4 kw (GD). Mx 0415(DF).
 6000 BRAZIL R.Inconfidencia, PP anmts 2315 (RWP), *0800 (DF). Also hrd 0011 w/ID and tlk (AM), IDs and anmts at 0155 (ML).
 6006 C.RICA R.Reloj, mx, IDs 0215 (DM), LA mx 0800-0820, TCs (JR), mx and Ss talk 0920 (JP), many talks at 1240 (MK).
 6010 PORTUGAL Sines, DW Rumanian 0345 (DF), Czech 0530, Polish 0600(EB).
 6010 RYUKYU IS VOA-Okinawa, EE ID 1328, then cmtry (DJ).
 6012 THAILAND Thai TV Co, fair 1245 w/nx cmtry prgm (DH).
 6015 COLOMBIA Believed R.Mira, 0335 to 0405* w/anthem. Mx, tlks, IDs (GD). Radio Neiva(?), 0130 mx and Colombian ID (EB).
 6015 IVORY COAST Abidjan 0635 w/Afr mx, cmtry, IDs to 0700 t/o (JR).
 6015 PORTUGAL Sines, CBC Russian 0315-0330*, //7285 (EB, DF).
 6020 MEXICO XEUW hrd 0506 w/SS ID, fine lvl (ARN).
 6025 BRAZIL R.Em.Pirantinga, sports 0215 under Lisbon (MAF).
 6030 W.GERMANY SDR, strong w/GG nx 0800 (DF), also frm 0628 tune (DF).
 6020 MALAGASY RN-Talata, *1655, Dutch 1700, QRN frm Lopik s/on same fgy in AA at 1700 (BP).
 6020 PERU R.Victoria, LA mx 0644, remarkable lvl (JDT).
 6025 UNID. 0431-0445 while Lisbon off, drums, anmts, choral mx, seems to have EE some nites. Who? (DF).
 6030 IRAQ Baghdad, AA mx 0528, cmtry, AA nx 0600 (KS). Presumed, M-E mx 0330, low fgy hets. Also noted 0425 past 0500 (DF).
 6040 TAIWAN Taipei believed the one w/CC(?) nx 1310 (DH).
 6040 UZBEK R.Tashkent, IS and EE s/on *1400, to 1428 (DJ, SC). Weaker on 9600, 11925. Powerhouse here (EB).

- 6050v HONDURAS R.Suyapa, hrd here ex-6125 w/local mx, IDs(C-W) Time?(Ed)
6055 HONDURAS R.America, mx and ads 1230, bad modul and noise (EB).
6055 JAPAN NHK hrd 1430 w/HS, mixing w/RA-Darwin (DF).
6055 KUWAIT Kuwait begins AA svc w/nx 0400, hrd past 0500 (DF).
6055 RWANDA Kigali hrd w/low stringed IS 0328, ID in FF and lang, mostly mx to 0345, then tlk in lang. Hvy splash frm 6050, and blocked by Kuwait s/on at 0400 (Ed).
6060 ARGENTINA R.Splendid, LA mx prgm 0755 (ES).
6060 SICILY Caltanissetta hrd 0720 w/songs and tlk (DF).
6060 ZAMBIA Lusaka 0720 w/mention of "R.Zambia," and lang nx (DF).
6065 COLOMBIA R.Super, mx and IDs 0130, past 0500 (EB), ditto at 0603 (JDT), IDs between songs 0638, fine lvl 0713-0730 (SK, JR).
6075 S.AFR SABC, strong w/nx 0200 (RBS), tlk, mx 0510 under Dw (DF).
6077 HONDURAS LV Junco, SS mx and IDs 1205. Strong (JZ).
6080 ALGERIA Algiers w/AA at 0640, past 0800. Not FF as per WRH72 (DF)
6080 S.AFR RSA, nx in E 2345 (NP), EE 0020 (HD), N:E 0230 (JF). Hrd in FF 0310-0320* after FF ID, //9695 (DF).
6085t INDIA Madras, Hindi mx, M&W ancrs in lang, 1320 (JZ).
6090 ARGENTINA R.Belgrano, ID hrd 0030 way down in the mud (SK).
6090 AUSTRALIA Sydney hrd 1255 w/nx till 1300* w/GST (JFR).
6090 IRAQ Baghdad hrd 2010 w/N:E by gal (TN).6096, AA 1955 (ES).
6090 LUXEMBOURG R.Lux, usual pop mx, DJ style, w/N:E at 0100 and before close at 0200v (FI, ML, JH, RBS, AEL).
6090 NIGERIA RTV-Kaduna strong w/Afr mx at 0445 (SC).
6092 KHMERE Phnom-Penh, fair at 1130 w/stringed mx (JMS), vocals to 1211 ID, waltzes to 1230 f/o (SD). ID in EE by gal before gives N:E on Sun, to 1254 (ARN). 6093, instr mx 1311, FF tlks (DJ), thought to be hrd 1355 w/chants, songs. Fair-poor lvl (DH).
6093 SOMALI Mogadishu, guitar IS 0259, ID, then AA chants. F/o 0320 (JR). Chants 0305 (MK) and 0310 (RWP).
6100 AUSTRALIA RA-Darwin, Mandarin hrd at 1430 (DF).
6100 ECUADOR LV Volante, ID 2334, later swamped by Dw (ARN).
6100 NICARAGUA R.Hernandez de Cordoba, hrd at 0000* as DW s/on (C-W).
6100 VENEZ YVTO, hrd w/pips, ID 0810 (ER), 0305 (MK), pips 0636 (DF).
6105 MEXICO XEQM-Merida, vy good lvl 0300 w/lite mx, SS ID (ARN), and oldies 0300, comls, but f/o 0315 (KS).
6110 AZERBAIJAN Baku hrd w/HS 0350, clas.mx (DF).
6110 SPAIN RNE-Noblejas (listed), SS 2335, //6140 (DF).
6115 MEXICO R.Univ.de Sonora, lite pops 0100 (DM).
6120 ARGENTINA R.El Mundo hrd 0400, Rming SBC (RO).
6120 FINLAND Helsinki, IS 0254, EE ID 0255, into Finnish (RWP).
6120 HAITI 4VEH, all EE rel format, good at 1145 (ES).
6120 NICARAGUA R.Atlantica, ID and mx at 1315 (C-W).
6120 S ITZ SBC, N:E 0130, then features (WT, JRM, DM, JBa, HD).
6120 VENEZ R.Angostura at 0910 w/tlks, jingles, ads, good lvl (CL), mx prgm 0940 (DF), much SS talking at 1020 (JP).
6125 COLOMBIA R.Continental, tlks and mx 0100, clear ID at 0300 (EB), comls and IDs 0130 (ML), anmt 0230 (ARN), over Suyapa 0315, ex-4835 (GD), ID 0615, LA mx 0820 (DF), much LA mx 0600-0700(JZ,RO,RV)
6125 UNID. Pakistani lang talking about India-Pak. Vy low at 1150 (ES).
6130 SPAIN RNE, EE to NA 0200 (DF), nx and mx at 0300 (DM).
6135 TAHITI Papeete, Tahitian 0315, vy good, //11825 (DM), FF anmt 0735, also //15170, but best here (BBy).
6135 S.VIETNAM VTVN w/mx here 1010, //9620 (BBy).
6135 UNID. stn w/vocals by gal, maybe Malaysia. 1304 (DJ).
6140 AUSTRALIA Perth, nx at 1500 (AM).
6140 MEXICO R.Univ.de Chihuahua, US pops 2359, good lvl (DM).
6140 SPAIN RNE, EE good 0100 (JFR), N:E 0200 (NP, SC).
6145 BRAZIL R.Nac, ID 2330, into lite mx prgm. Good (SK).

- 6145 W.GERMANY DM, pops 0455, to 0555* (JBa, RM).
- 6144v NIGERIA Calabar, mx 0515, EE ID and local nx 0545 (EB), ID and N:E 0600 (SK), rel svc 0615 (JBa), mx 0610 after TC (DM, DF).
- 6150 C.RICA R.Atenea, LA mx and an ID at 0755 (JDT).
- 6150 RUMANIA Bucharest, ID, nx, fair in EE 0138 (JBa), nx 0430 (DF).
- 6155 AUSTRIA Vienna, good in EE 0030 (DM), EE 0145, GG 0200 (KM), nx in GG 0200 (WT, SC), mx to 0355, IS, EE ID, into GG (HD). Jazz mx hrd at 0655 (JDT).
- 6155 JAPAN FEN, ID and nx 1300 (DJ), N:E 1400 (DF).
- 6155 URUGUAY R.Carve over Vienna w/SS ID hrd at 2304 (ARN).
- 6160 CANADA CKZN-St.Johns, good w/Xmas mx at 1020 (HS).
- 6160 COLOMBIA Em.N.Grenada, sports 0315 (ML), peppy mx at 0510 (RWP).
- 6160 GREECE VOA-Thessaloniki, EE to Europe at 2125, recent NF (BP).
- 6165 E.GERMANY RBI, EE at 0406, talk (JBa), in GG at 0430 (DF).
- 6165 HUNGARY Budapest, good in EE to NA 0100 (DM), EE 0300-0330 (AEL).
- 6165 S.VIETNAM VTVN, fair in tlks 1250 (DJ), 1304 (DH).
- 6170 ISRAEL IBA, songs 2110, EE nx, cmtry 2115. Replaces 6180, and is // 9625, 9009 (ER, JFr, FI, ARN, AM).
- 6170 VENEZ R.Nac, poor w/mx, SS IDs 2340 (ML).
- 6175 BRAZIL R.Guarani hrd w/mx and ID at 0501 (DF).
- 6175 SWEDEN Stockholm, SS to 0029, then EE (RM). N:E to NA 0030, Swedish lessons (RBS, JBa, DM). SS 0136 (AM), EE 0200-0230 (AEL).
- 6180 GUATEMALA LV Guat, mx prgm, ID 0140 (JH), LA mx, strong, 1210 (JFr).
- 6185 ETHIOPIA R.Ethiopia, N.Afr mx 1720, Amharic chants, also hrd on //9585 (BP), local mx hrd under DM at 0410 (DF).
- 6190 RSFSR(As) Magadan, local ID 0700, RR mx, //5940. Petropavlovsk listed in WRH (BBy). Petropavlovsk, opera hrd at 0940 tune (DF).
- 6195 HAITI R.Haiti, Parisian mx, FF tlks 0203 (AM).
- 6195 S.AFR SABC, Afrikaans and EE ads 0210, many TCs (HD), 0405 (DF), "Breakfast Show" 0430, strong (ML), wx, ads, mx, fair 0445 (DM).
- 6195 TUNISIA Tunis, anthem *0458, ID, chants, chirps/crows 0530, off 0555v* (SD, DF, DM, KS, JR).
- 6199 CLAND LV Pathet Lao, talks and local mx 1230, not //4780 (JMS).
- 6200 ALBANIA Tirana, EE cmtry 0230 (RBS), nx and cmtry 0235 (DM), lang 0400 (DF).
- 6203 INDONESIAN, it seems, 0930-1200, ute RM (BBy).
- 6205 INT'L WATERS RNI, EE pops, IDs, DJ show 1938 (HS), 2220 (AB), 2353 (AM), 0203 (WT), 0405 (DF), 0605 (JR), past 0720 (RWP).
- 6241 INDONESIA Unid. location, many US pops, 1000-1400 (BBy).
- 6250 Eq.GUINEA Sta.Isabel, Afr mx 2211, ID, "Los Voluntarios" to 2300* (HS). And at 0515 w/Afr mx (SC).
- 6250 N.KOREA Pyongyang, vy low voices 0735, choral singing.Bad (ES).
- 6277a INDONESIA Manokwari, often good 1300, nothing on 6193. I back thi as being Manokwari, despite tr to contrary from Engineer (RWP).
- 6300v INDONESIA, instr mx, RRI news 1200. Ute RM (BBy).
- 6540 N.KOREA Pyongyang, IS, on in EE 0800 w/nx. Fair to good (DM).
- 6890 TURKEY Ankara Meteorological stn hrd w/IS 0457, poor-fair (GD).
- 6937 CHINA Kunming with stern YL, CC tlk 1240, good lvl (RWP).
- 7050 EGYPT Cairo, M-E mx 0525, IS and nx, AA 0530 (JDT).
- 7065 ALBANIA R.Tirana, lite mx 1850, N:E to 1859 * (JDT), EE cmtry at 0015 t/i, ID, C RM. //9780 (RO).
- 7100 PAKISTAN Presumed Karachi, ending N:E 1830, EE ID (BBy).
- 7105 ASCENSION BBC, EE 0440, local ID 0444, mx 0445, nx 0500 (RM).
- 7105 CEYLON VOA-Colombo, IS 1258, ID and nx in EE (AM).
- 7105 INDIA AIR; N:E 2100, mixing w/Madrid. Recent NF (BP).
- 7110 DODECANESE VOA-Rhodes, AA 0400-0600 (DF).
- 7110 MALI Bamako, native mx 0820 (JDT), vy strong chants 0830 (ES).
- 7110 USSR RM Pac Coast svc, //7175, both prob.Eur xmtrs (EB). Omsk, CC tlk 1345, IS 1400, more CC (DF).
- 7120 CHINA Peking, cmtry 0120 (RBS), nx, CC mx 0330-0350 (JRm).

- 7125 GUINEA Conakry, vy poor w/cora mx 0615, nx in FF 0630 (JR), still good 0805 (RWP) and 0830 w/Afr mx (DF).
- 30 USSR R.Kiev prgm in EE 0050, ID at 0100 close (JF).
- 31 TAIWAN VoFC, mx, believed Jap lang 0934, EE anmt 0950 (RO). And at 1355 w/CC, het frm 7130 (DF).
- 7135 TADZHIK Dushanbe listed, in RR at 2345 (DF).
- 7138 UNID. w/AA or similar lang at 0830, Afr mx, must be w.Afr--who?(DF)
- 7140 INDONESIA Ambon, good at 1235 w/gal giving anmts, local mx (RWP).
- 7150 USSR R.Kiev prgm, N:E 0435, several IDs. //7220, but 7150 better (NF). 0440-0459* (CP), EE RM prgm to NA frm 0500 (DS).
- 7155 JORDAN Amman, ID 0405, chants, vy poor (ER). Pips 0600, nx in AA, ID 0604, instr mx to 0630, then maybe nx, more chants (SD).
- 7170 N.CALEDONIA Noumea, good in FF 0700, pop mx, a few ads after 0700
- 7175 SICILY Caltanissetta, It songs and anmts 0535-0625 t/o (TN).
- 7180 W.GERMANY RFE in Eur lang, ID 0000. Weak, not R.Liberty (DF).
- 7190 CEYLON Colombo w/EE coml svc *1230, barely audible on //9720(CL).
- 7195 LIBERIA VOA-Monrovia, clas.mx 0518, EE ID at 0600* (RM).
- 7200 SUDAN Omdurman, AA nx 2152, but soon jammed out. 2200*, //4994, 9505 (CL). Chants 0425 (DF), AA tlk 0434 (RM).
- 7215 ANGOLA R.Ecclesia, good at 0310 w/pop PP mx (SC).
- 7215 IVORY COAST Abidjan, weak 0640, FF nx to 0656, ID, TC (JR).
- 7225 ISRAEL IBA, IS 0358, into RR. EE ID 0430, lang 0431 (RM).
- 7225 PHILIPPINES FEBC, mailbag 1210, Indo 1230 (TN), rel tlk 1215 (JP).
- 7225 RWANDA DW-Kigali, Swahili 0315, //Julich 7235 (DF), N:E 0444, ID 0459, FF frm 0500 (SD).
- 7230 SP.SAHARA Aaiun, IS 0756, trumpets 0759, chants 0800 (SC,FI, RWP, ES). Faded fast at 0820 (SC).
- 7240 IRAq Baghdad, good w/chants 0300 (JMS). Presumed, chants 0325 (DF).
- 245 AUSTRIA Vienna, N:E 0730 (JDT), EE ID, fqys 0800 (RWP).
- 7245 S.VIETNAM VTVN, weak 1220 w/SEA mx. Easier to QSL this fgy (RWP).
- 7255 NIGERIA Lagos, mx, IDs, TCs in EE, weak 0639-0658 f/o (JR). EE cmtry 0645 (ER), world nx 0700, fair rcpn (JBa).
- 7260 COMORES Moroni, vy weak at *0330 w/LM, FF ancrrs, then chants. Hvy BBC/RM QRM (DH).
- 7265 W.GERMANY SWF-Rohrdorf, orch mx, quite good arnd 0805 (BP).
- 7270 DODECANESE VOA-Rhodes hrd 0510 (LS).
- 7275 ITALY RAI, N:E at 0430 (JDT).
- 7285 INDIA Believed Delhi, natl mx at 1645 (BP).
- 7285 POLAND Warsaw, EE to NA 0200 under DW (HS), IS 0300, into EE (ARN), ID and mx 0630 (JDT), piano concert to 0659* (JBa).
- 7290 MONACO TWR, fair w/mx box IS 0615, EE rel prgms begin 0625 (JR). Rel prgms in EE 0730 (AB), blasting lvl 0745 (ER).
- 7290 PAKISTAN Karachi, NF, N:E to Eur 2000 (BP).
- 7295 PHILIPPINES VOA, CC over jamming 1640-1700* (BP).
- 7300 ALBANIA Tirana good 0240 (LS), IS and N:E 0330 (JH).
- 7300 CLAND Greek Voice of Truth, via RBI xmtr, flute IS and Greek ID at *1900. NF, //7335. Poor-fair (LM).
- 7301 NIGERIA ECBS/CS-Enugu, vy poor 2120, EE tlk, ARO QRM (RWP).
- 7520 CLAND Radio Fighters, believed in USSR, poor-fair in CC over jammers, anthem at 1055* (LM).
- 7345 CZECH Prague, EE to NA 0100-0155, fair but fluttery (JR).
- 7416 CLAND R.Liberation, fair w/two men in Viet at 1210 (ES). Tent, lady tlking, mx, poor at 2240. 10220v not hrd (LM).
- 470 CLAND R.Liberation, SEA tlks, marches, good at 1230 (JMS).
- 479 CLAND Pathet Lao stn 1140, hetting Peking Jap svc on 7480. Is //6199 (BBy).
- 7500 AUSTRALIA VNG-Lyndhurst, pips and ID at 1130 (JMS).
- 8333 CLAND R.Port.Livre, exc in PP cmtry at 2335 (DH).
- 8404 CLAND R.Free Yemen, AA chants to 1935, anmt. Little jamming (ER).

- 8590 LIBIA Tripoli, AA mx 2211 tune (RWP), tlking 2220 (DM), AA chants arnd 2220 w/ID between songs. Anthem at 2300* (ER).
- 8777y CHINA Piehi Fisheries Stn, CC songs 1110. Songs convince me it is Piehi (DJ).
- 9009 ISRAEL IBA, weak in EE nx 2127, FF 2130, also aneng 6170 (DS).
- 9431 CLAND V.of Patriotic Militiaman's Front, fair at 1422 w/tlks by man, Asian mx (DJ).
- 9475 EGYPT Cairo, AA mx 0200 (JRM), N:E 0315, fine sig (RBS).
- 9505 GUAT TGNB, rel prgm to 2330, ID, then mx (DM), 0045 (LS), good w/EE 0345, exc w/EE rel prgm 0355-0430 (AEL).
- 9505 JAPAN NHK, IS 1355, N:E 1400, //9560, 11815. Over TGNB (JH).
- 9505 SUDAN Omdurman, AA tlks 0601 (KS), and good in AA at 2105 (SC).
- 9510 ALGERIA Algiers, poor at 0515 (LS).
- 9510 VENEZ R.Barquisimeto, SS nx 2245, ID and TC 2247 (TN), pops at 2300, then baseball (AB), lite mx and IDs at 2335 (DM).
- 9516 URUGUAY R.Sarandi, definite ID, SS nx 0104, off abruptly (ARN).
- 9520 N.ZEALAND RNZ, N:E 0810, horseracing results, good sig (DM).
- 9520 PERU R.La Cronica, ads 1100, few IDs and TCs (MAF).
- 9520 SPAIN RNE, good daily at 0455 (LS).
- 9525 INDIA Aligarh fair w/mx to 2200, then N:E, but destroyed by RSA at 2215 (JR). Delhi, 2159 w/EE to UK, ID, TC, nx (CL).
- 9525 S.AFR RSA, good sig w/nx, cmtry, 2215. Poor condx (JF).
- 9530t AFGHANISTAN Kabul, maybe, w/N:E mixing w/VOA AA svc arnd 1803, no ID noted (CL).
- 9540 INDIA Delhi, N:E 2202, but RSA JRM (RD).
- 9540 RSFSR(As) EE ID and nx 0600 (DF), IS under VOA at 1200. Petro-Kamchatski is listed here (SK).
- 9545 GHANA Accra, EE Xmas tlk 2117 (ML), EE cmtry, mx 2200 (VT).
- 9545 LEBANON Beirut, EE 0230-0300, AA before. DW JRM (AEL).
- 9550 BELGIUM RTVB, EE tlk 2305; ending EE at 2310 (JP).
- 9555 EL SALVADOR YSS, SS tlks, IDs, mx 0315 (DM), ditto 1215 (JR).
- 9555 PHILIPPINES VOA-Poro, CC tlks 1415-1430 (DF).
- 9560 JAPAN NHK hrd in EE 1415 (DF).
- 9562 PERU R.Nac, weak w/mx, IDs, ads, govt info, 0700-0725 f/o (JR).
- 9570 CHILE R.Portales, fair w/LA mx, man host at 0005 (ES).
- 9580 NICARAGUA R.Mar, ID 1415. Is SW only (C-W). 1428 (TS).
- 9585 SYRIA Damascus, M-E mx before Ethiopia s/on at 0430 (DF).
- 9585 ETHIOPIA R.Ethiopia, on 0430, off 0600, best 0450-0515 (DF). Is also an HCJB spur on 9587 arnd 0500, and Paris *0600 in FF (DF).
- 9590 CHILE R.Prés.Balmaceda, SS economic tlk 1010, gong (BdL).
- 9595 JAPAN NHK, hrd 1405 in Jap (DF).
- 9596 TUNISIA Tunis, AA vocals at 1830 (DF).
- 9600t INDIA Delhi, lang nx, IS at 1230 (TS).
- 9600 PERU R.Ayacucho, weak at 1102 w/Andean mx (GD).
- 9600 UZBEK R.Tashkent, N:E 1200 (JBa, AB, AM), and 1400 (DF).
- 9610 AUSTRALIA Perth, nx and wx at 1305 (HD); Chevalier tribute 1330 (BMS), EE 2255 (DF).
- 9610 MAURITANIA Nouakchotte, AA chants 0804, some tlks (MK).
- 9610 NORWAY Oslo, IS 2247 (RWP), ID in EE 2255, into Norw (DF). Norw lang prgm w/ID in EE at 0230 close. Fair (ML).
- 9615 VATICAN VR, N:E 0050 (ML), mx 0050-0100 (JRM).
- 9620 FRANCE Paris, anthem 0558, pips, into FF. DW beneath them (RO).
- 9620 S.VIETNAM VTVN, strong w/drama 1435 (DJ), weak 140 w/tlks (DF).
- 9620 YUGOSLAVIA Belgrade, poor w/N:E 2200, plastered by CBC (JR), tentative in FF 2115, but no ID (SK).
- 9625 ISRAEL IBA, EE 2045 (ENR), IS 2059, EE cmtry 2100, EE to FF at 2130 (RM).
- 9635 BRAZIL R.Aporecida, clear PP ID 0929, then PP vocals (CL).
- 9635 COLOMBIA R.Nac, historical prgm at 0130 (DS).

- 9640 USA UN Radio, off in EE at 0100*. Fair (ML).
- 9650 CYPRUS Limassol, IS 0343, AA 0345. Hvy Conakry QRM (JFr).
- 9650 GUINEA Conakry, poor 2350 w/FF anmts (ML), FF ID 0359 (JFr).
- 9655 SYRIA Damascus, FF and EE 1930-2100, exc (DH), N:E 2030, cmtry and old pops to 2200*. Ex-15165 for the winter (CL).
- 9660 VENEZ R.Rumbos, boxing 0400 (ML), nx 1151 (JBa).
- 9665 BRAZIL R.Nac.Brasilia, good at 0952 w/Pf mx (BdL).
- 9670 PORTUGAL Sines, IBRA in GG 1915, EE 1930, AA 2000, all on a Sat (EB). Also hrd w/15 min GG segment at 1930 after EE ID (JMS).
- 9670 SWEDEN Stockholm, *1230 w/N:E to FE (BP).
- 9675 BRAZIL R.Diario da Manha, hrd w/Pf nx at 1000 (BdL).
- 9675 PERU R.del Pacifico, mx and tlk 1110 (JFr), ID at 1130 (LS, ML).
- 9683 VENEZ R.Monagas, ID, ads, good sig, lite QRM. 1220 (HM).
- 9685 CLAND R.Port.Livre over Algiers, tlks in PF to 0100* (AEM).
- 9690 ARGENTINA RAE, SS nx 0000 (AB), N:E 0000 (RBS): LA mx, EE ID 0340 (JH), fair w/EE tlk 0400 (ML): EE cmtry to 0609, to 0659*(SD).
- 9700 BULGARIA Sofia, N:E 0003 (WT), ditto 0050 (RBS).
- 9705 MEXICO XERMx, SS tlk, Mexican mx, IDs, 0020 (JP), 0050 (MAF), 2015 (DS).
- 9710 MALI Bamako, superb lvl 2100, FF pops, ID 2115 (RWP).
- 9715 MONACO TWR, RR sermon 0615, NF ex-11855 (BP).
- 9715 HOLLAND RN, 2130 in EE til 2210 when faded (AEL), and poor in EE to NA w/"Spotlite," "His & Hers" at 2139 (DS).
- 9720 CEYLON R.Ceylon, *0100 w/pips, fgys, oriental mx (DJ, ES). Rel prgm in EE 0130, BBC nx 0200, often strong (EB). Coml svc in EE at *1230, records till 1300, //7190 (CL). Rel prgm 1530 (WT, AM), BBC nx 1600, drama, 1700* in EE (AB).
- 9720 RWANDA DW-Kigali, EE to Afr, 0545-0630 (DS).
- 9725 ETHIOPIA ETLF, EE frm 0400, nx, mx to 0425*. Best ever (MAF).
- 9730 AUSTRALIA RA-Darwin, *2330 in Viet, NF ex-9735 (BP).
- 9730 CLAND Bizim Radio ("Our Radio"), Turkish, via RBI, IS, ID at *1800, to 1829*. No //s found (LM).
- 9735 TAHITI Papeete, good arnd 0500, //15170. May replace 3223, but is // to 6135, 15170 at 0600-0800 (BP). Fair 0430 w/tlk (TS).
- 9740 CYPRUS BBC-Limassol, *1300 w/WS in EE to Burma-Thailand (BP).
- 9745v IRAQ Baghdad, N:E at *1930, cmtry, IDs, pop mx (RH, JZ, AEM, FI).
- 9750 CHILE R.Mineria, exc 0029 w/harp IS, ID (ARN), ID 1002 (BBy).
- 9754 PERU R.Sideral, 2205-2235, SS, IDs, nice but hvy QRM (ARN).
- 9765 AUSTRIA Vienna, ending EE at 1948, IS 1950, then off (CL).
- 9770 INDONESIA Djakarta, ID 2211, back here frm 9795 (BP).
- 9770 ZAIRE Kinshasa, Afr mx 2045 (SC), pol tlk 0545 (DS), Afr mx and FF anmts 0630 to past 0700 (BP).
- 9833 HUNGARY Budapest, N:E 0100 (RBS), DX prgm in EE 0105 (DS).
- 9880 UNID. at 1048 in Khmer lang, "Ici Kampuchea" hrd several times, man took over 1105, Asian mx 1115, "Intl" 1124 (BBy). VoFUNK? (Ed).
- 9915t RYUKYUS VUNC-Deragawa, oriental lang, believed Korean at 1500. Could it be anyone else? (RO). Thought this one closed down (Ed).
- 9920 CHINA Peking, FF 1300, Viet before that (JMS).
- 9920 CLAND R. Liberation, vy good 1345, FF, easy ID (RWP). EE at 1030 aneng 10010, 7470, but not this one. Off 1045. Peking in here later (BBy).
- 9988 CLAND VoFUNK, Khmer tlks 1150, mx, poor (RWP). Tent, singing w/drums at 2350 (TS).
- 10010 CLAND R.Liberation, Lao tlk 1508, //7470, to 1530* (BBy). EE 2330, propoganda. Supposed to be in Cambodia (ARN).
- 10040 N.VIETNAM Hanoi, ID and EE tlk 0030 (AM), Viet mx 1845, anthem 1900, VoV ID 1900. To 1935, poor-fair (LM).
- 11415 CLAND R.Peyk-e-Iran, *1430 in Persian, weak, stronger on // 11695. Maybe two locations (EB).

- 11488 CLAND R.Free Russia, barely thru jammers at 1818 (DJ).
 11506v-CLAND R.Port.Livre, talking 1815, some mx (JMS), 1835 (GD).
 11695 CLAND R.Peyk-e-Iran cmtry 1720, IDs 1724 (AB), Stockholm TH given before 1810* (JFr, RD).
 11700 MONACO TWR, IS 1827, EE ID, into Armenian (AM).
 11705 JAPAN NHK, CC svc poor at 2300 (DM).
 11710 ARGENTINA RAE in EE w/ID, tlk 2300 (CL), N:E 2300, mx 2316, ending EE 2330 (TN).
 11715 SWITZ SBC, Italian nx 0300 (BP).
 11720 CANADA CBC, No.Svc in FF, nx 2030 (DS).
 11720 FRANCE Paris, FF nx 0715 in HS relay, //6175 (BP).
 11725 AUSTRIA Vienna w/choral mx 0300 to S.Am (BP).
 11725 INDIA AIR at *2045 in EE, NF ex-11740 (BP).
 11725 VENEZ R.Nac, hrd various times between 1200 and 0415, playing mx asking for rpts to Box 3979, Caracas. Generally good rcptn (TS, JBa, KM, EB, MM, DF, AB, TBa, RD, GH, ML, AEM, JFr, JR, ARN, LS)
 11730 NETH.ANT RN, N:E 0200 (TJ, WT), "His & Hers" 0230 (JF), DutchS lessons 0300 (NP), "Happy Stn" 0500 to WCNA, //9715 (DS).
 11730 ETHIOPIA ETLF, ID 1630, then rel prgm. Fair (JBa).
 11735 MOROCCO RTVM, N:E 1719, ID, then mx. Good sig (JBa).
 11745 ECUADOR HCJB, "Studio 70" 0105 (HD), mx 0145 (TJ).
 11760 CUBA Havana, exc w/SS propaganda 0120 (DS), nx, mx 1340, 1600 (ENR)
 11770 MEXICO XERMEX, LA mx 0115-0122 (WT).
 11780 N.ZEALAND RNZ IS 0615, EE IDs, BBC nx, mx. Good (KM).
 11785 BRAZIL R.Guaiba, good at 0005 (LS), bad modul when had PP nx at 0000, IDs, jingles, mx after 0015 (JR).
 11793 INDONESIA Djakarta, Indo nx 0050, ID 0055, mx, 0100* (BBy).
 11795 BRAZIL R.Nac, mx, IDs, TCs 0037-0105 (JR), PP mx 0110, IDs 0115, then nx (ER). Full ID 0206, mx, all PP (JBa).
 11800 CANARY IS RNE, ID and SS nx 2030 (HS), good w/anmts 0130 (ML).
 11810 INDIA Delhi at 1228 w/IS, EE ID, TC, into nx 1230, //15335 (CL). EE tlk 1330 (JP), cmtry, OC 1345 (GH), mx, features (TN).
 11820 MEXICO Heraldo de Sonora, again active, 1730, SS, ads, TCs (ARN).
 11820 USSR R.P&P, IS and EE ID 1430 (DS), good at that hr (LS).
 11825 TAHITI Papeete, exc at 0400 (JMS), Tahitian and FF tlks 0453-0510 (CP).
 11835 HAITI 4VEH, rel prgm 0115 (RBS), good 0130-0200 (LS), 2230 (BP).
 11835 URUGUAY R.El Espectador, nx, IDs 0211-0231, vy good (JDT).
 11845 BRAZIL R.America, 2225 w/ID, no strain lvl (ARN). PP tlk 2300, //other Brazilians. Own prgm 2325, to 0002*. Down frm 11854 (EB).
 11850 GHANA Accra, good in EE to US 2000 (JBa), EE ID 2030, Xmas prgm to 2100* (NP). AA mx, chants 2045, EE anmts to 2059* (DS).
 11850 INDIA Delhi, IS 1228, N:E 1230, //9535, 15430 (CL).
 11850 MALAYSIA BBC-Tebrau closes at good lvl in EE at 0045 (ARN).
 11865 CANADA CBC relaying DW, GG 0200 but drowned by Pernambuco (MAF). Also hrd 0345 (LS).
 11875 NICARAGUA R.Nac, vocals 1324, ID 1339, nx every 1/2 hr or so, 1530 t/o (SD), symphony 2100 (JP), dance mx 2150 (BP). EE lesson 2303 (WT), speech on a sun at 0045 (TN).
 11880 ARGENTINA R.Splendid, spirited tlk, ID 0035 (DW).
 11880 TURKEY Ankara, strong in Turk 1600, //9515 (EB, ARN), mx 1735 (JDT). Turk tlk 0715 on Sun, may s/off earlier weekdays (DF).
 11895 SENEGAL Dakar, exc in FF at 2055, //4890 (CL).
 11900 USA UN Radio fighting it out w/RSA at 0100 check (JMS).
 11910 ETHIOPIA ETLF, EE rel prgm 1930-2015 to W.Afr, good sig (AEL). 1930, N:E and cmtry (JFr), EE ID 1945 (AEM).
 11920 IVORY COAST Abidjan, gospel mx and FF anmts to 1830 (ML), then N:E to arnd 1850, some Afr mx (AEL, ENR, JFr, FI, JFR, LS, TN, HS, NP). EE lesson 2145 (DS), Afr mx 2230 (JMS), mx 2250 (MK).

- 11925 KUWAIT Kuwait, *1830 w/ID, EE prgm to Eur, ex-11940 (CL).
 11930 GRENADA WIBS, N:E 2000, mx 2010 (BBy), 2130* (BP).
 11935 PORTUGAL Lisbon, EE tlk 0200 (ML, TBn).
 11940 KUWAIT Kuwait w/wx 1843, N:E 1845. Listed for 11925 (NP).
 Also hrd here w/Xmas prgm in EE 2000 (BP).
 11940 LIBERIA ELWA, lang prgm, EE ID 1915 (ARN), N:E 2045 (JPR),
 EE 2015-2100* (AM, JFr, HS, JBa).
 11950 BRAZIL R.Min.Educ, clas.mx, ID 0103 (MAF), orch.mx 0236 (CL).
 11950 SEYCHELLES FEBA, IS 1657, into Persian, EE 1730, ID 1800 and
 into AA, closes 1900* (AEL, RD, JH, LS, AM, ML, JR).
 11970 VENEZ R.Nac, testing w/IDs, mx 2017, //11725 (CL), 2045 (EB),
 ID 2140 (BP), lite mx, ID 2145 (ENR).
 11995 CZECH Prague, Afr svc in EE 1750 (RD).
 12005 CLAND VoFUNK, tlks 2350, IDs 0002, seemed //9988, 10080 (BBy).
 12025 N.VIETNAM Hanoi, Jap svc 1450, Indonesian 1500 (BBy).
 13242 CLAND R.Euzkadi, 2040-2057*, IDs, nx, off w/anthem (KS).
 14995 N.VIETNAM Hanoi HS w/ID 1115, shares fqy w/R.Liberation (LM).
 15100 GRENADA WIBS, to UK 2045, pops, IDs, etc. Fair-poor (NP).
 15105 BRAZIL R.Rural, strong w/IDs, vocals, arnd 2047 (DJ).
 15115 ECUADOR HCJB, strong 0140 w/EE to Americas (JF).
 15125 TAIWAN R.Liberty, RR 2300, jammed out completely 2301 (SK).
 15125 TAIWAN VoFC, weak w/tlks, CC songs 0345, 0350*, //17720 (CL).
 15150 CHILE R.Corporacion, good 0140 (LS), IDs and pop mx 0225 (JZ).
 15155 BRAZIL R.Tupi w/sports event 2330 (JR). Also 0309 w/comls (KS).
 15165 DENMARK RD, Danish nx 1200, EE ID. Vy good (TBn).
 15170 LIBERIA ELWA, Afr mx 2120, ID 2130, into AA (ENR), 2210 (JR).
 15170t PHILIPPINES R.Veritas, revival mx, IS, lang nx (JMS)Time? (Ed)
 15175 MEXICO LV Amer.Latina, orch.mx 1700, ads, ID 1732 (EB).
 15175 TAHITI Papeete, strong at 0345 in Tahitian (SC).
 15185 NIGERIA VoN, N:E to Afr 1638 (BP).
 15215 PHILIPPINES R.Veritas, Viet svc 0440 to 0500*, later moved to
 15315 (BP).
 15225 VENEZ R.Nac, IDs and lite mx hrd at 0106 (DJ).
 15245 MOZAMBIQUE L.M, 1630-1645, pops, all PP. Reactivated (ARN).
 15245 ZAIRE Kinshasa, play 1940, Xmas mx, ID in FF 2032 (CP), mx
 1952 (BdL), cmtry, FF mx to 2200 t/o (FI), ID, FF nx 2300 (JR).
 15255 RFE, mx 1400, some tlks (AB).
 15260 MALAGASY RN-Talata, IS 1355, ID, on in EE w/test to SEA. PBC
 QRM 1445-1515, off w/ID, anthem 1520 (CL, DH, JZ, GH, RM, HS1,
 EB, AB, FI, SD, JH). Weak under CBC, 1615, gone 1620 (ES).
 15330 MALAGASY RN-Talata, pops to 1350 (BP), 1414 (TN), and at 1631 on
 12/16 (ARN). Looks like you get the prize, Al (Ed).
 15340 USA WINB, EE from 2103 to 2248*, vy strong (EB).
 15345 KUWAIT Kuwait, flute IS 1558, EE ID. Ancd //9520 not hrd (CL).
 15405 BELGIUM RTVB, IS 1545, FF ID, into Afr mx. Good (ES).
 15410 CLAND Voice of the storm via Algiers, AA tunes, tlks 1835,
 //11810, 11715, 9685, 9660, maybe also 9510 (DJ).
 15415 PHILIPPINES R.Veritas, exc in Lith at 2350 (BP).
 15425 AUSTRALIA ABC-Perth, DJ show *2300 to 0005 f/o (HD).
 15435 TANZANIA RT, fair in FF, natl mx, 1800 (ES). EE ID 1900, then
 nx, more IDs 1908, 1922 t/o (ARN, DMO). Off after IS, ID 2000*(DJ)
 15445 JAPAN NHK, IS 2342, N:E 2345, ID 2357, mx, features, still on
 at 0030 (RM, ENR, DM, WT, TBn).
 15522 BANGLADESH Dacca, 12/18 w/IDs and lang anmts, some EE, weak and
 fading arnd 1127. Presumed, 1/1 w/mx, tlk, too weak to ID; 1104(BBy)
 16320 N.KOREA Pyongyang, good w/SS to LA, IS *2300, nx, mx (JR).
 17670 EGYPT Cairo, poor 1440 (LS), good w/AA tlks-1605 (JH).
 17765 FRANCE Paris, FF sports 1530, good. //17730 (ML).
 17785 JAPAN NHK, N:E, cmtry 2315 (TBn), poor at 0005 (LS).

- 17810 HOLLAND RN, FF 2001 to Afr (BdL).
- 17820 AUSTRALIA RA, strong in EE at 0200 (JF).
- 17820 CANADA CBC, exc in EE 1640 for Can. forces. FF 1645 (JH).
- 17825 CHINA Peking, Indo nx at 0500 (BP).
- 17825 JAPAN NHK, EE 2345 to NA, //15445. Fair-good (TBn), poor 0000(LS)
- 17835 MEXICO XERMx, exc 1710 w/opera mx, SS ID (BP), LA mx 1838, SS IDs, usually good sig (HD).
- 17840 VENEZ R.Nac, mx, IDs 1730, EE ID 1801, fair (EB).
- 17935 PAKISTAN Karachi, IS 1332, ID 1335, nx to 1350* (TN, JBa).
- 21460 ECUADOR HCJB, vy good w/EE 1330-1430 (JBa).
- 21480 S.AFR RSA, *1800 in EE to UK, also on 15155 (BP, JPR, HD).
- 21505 SWEDEN Stockholm, EE to NA 1400-1430 (JPR, JBa).
- 21525 USA WNYW, EE mx after health show, 2030 (JP).
- 21740 AUSTRALIA RA, N:E, cmtry 0225, good. To NA (JF).

Thanks, as usual, to this month's faithful, and WELCOME to those reporting for the first time. Keep em coming but REMEMBER the deadline, the 12th. 8 reports were late this month and could not be used . . .

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|---|------------------------------------|
| AB Alan Brooks, NH/DX150A | JFr John Fisher, Ont/Wstngnhs 636X |
| AEL Al. E. Linsenmeyer, IL/SW4A | JH John Hedstrom, IL/SX190 |
| AEM A. E. Martin, England/51J2 | JMS John M. Smallshaw, WI/SW4A |
| AM Albert Miller, Jr, OK/HRO500 | JP John Phillips, IL/HQ180AC |
| ARN A. R. Niblack, IN/SX100, HQ200 | JPR James P. Ronda, OH/HQ180AC |
| BBy Bob Bundy, Caroline Is/SPR4 | JR Jim Roberts, Man./9R59D |
| BdL Bernard Lenard, Ont/Edystn EC10 | JRm Jerry Reichman, IL/SW4A |
| BMS Brooks M. Sweeney, OH/S120 | JZ Jim Zabransky, IL/SB310 |
| BP Bob Padula, Australia/CR100 | KM Kevin Murray, NY/HA600A |
| CL Chris Lobdell, MA/SW4A | KS Ken Schnur, NY |
| CP "Pat" Patterson, GA/SX99 | LM Larry Magne, PA/R4B |
| C-W Gregg Calkin-Richd. Wood, Guat. City/SW4A, WR4000 | LS Leroy Swanson, IA |
| DF Dan Ferguson, WV/SB310 | MAF Marlin A. Field, MI/SX100 |
| DH Dan Henderson, MD/HQ180AC | MK Mark S. Konen, WI/SX71 |
| DJ Dan Jamison, KY/R390, 51J3, 75S1 | ML M. Leonhardt, IN/SB310 |
| DM Doug McLellan, NM/GR64 | MM Mildred Marshall, ND |
| DMO Dan Morisseau, NB/SW4A | MW Mike Watman, NH/SX190 |
| DS Douglass Souigny, OK/HQ180A | NP Neal Perdue, AL/SW4A |
| DS Dillard Stone, TX/S77A | RBS Robt. B. Seymour, PA/SX122 |
| DW Dave Williams, OR/75S3C, SPR4 | RD Richd. d'Angelo, NY |
| EB Ernie Behr, Ont/NC400 | RH Richd. Heggs, B.C./SB310 |
| ENR Ed. N. Ricchezza, PA | RM Robt. Moser, IL/SX62A, R4B |
| ER Evan Rosen, NY/SX133 | RO R. B. Odlin II, WA/R4B |
| ES Ed Shaw, VA/SX190 | RWP Ralph Perry, IL |
| FI Forest Isen, MD/51J3 | SC Stanley Cabral, CA/R530 |
| GD Gerry Dexter, WI/HQ180, R4B | SD Steve d'Adolf, MA/R530 |
| GH Glenn Hauser, TX/HQ160 | SK Steve Kamp, CA/HQ140X |
| HD Harry Dyer, OH/Ptble Barlow-Wad. | TB Tom Blossom, IN/2B |
| HM Hank Michalenka, RI/R4B | TBn Tom Baumann, MA/DX150A |
| HS Harold Sellers, Ont/9R59D | TJ Tom Jeffrey, OR/HQ100A |
| HS1 Hank Slade, MA/HQ180 | TN Tom Neeley, MI/DX150A |
| JBa John Banta, NY/SX110 | TS T. Smith, TX/BC779B |
| JDT John D. Tuchscherer, WI/HQ100A | WT Walter Trkula, PA |
| JF Julius Fazekas, NY | Ed Ye editor, MA/SB310 |
| | ML Matthew Lesordo, NY/HA600A |

Sorry, DS's and ML's--looks like each of you has a twin this month. Remember the deadline--the 12th. Suggest you mail the 9th, definitely not later than the 10th, to make it. Late reports are not held over.

Last Minute News/Tips

FLASH SHEET

Last Minute News/Tips

AL NIBLACK, EDITOR

420 Shelby St., Vincennes, Ind.,
47521

DEADLINE 23, MONTH

TIMES: GMT

FREQUENCY: KCS

FLASH...FLASH...FLASH SWAZILAND Swazi R. Cm Sta operated by American interests will begin 1st Feb., 18 hrs daily. Using directional antennas 400 metres from S. Afr. border, beaming for S. Afr. Rep. All mx and cms, all EE for present. Will use American annors for the start. Will bcst in the 90 and 49 MBs, and MW 50,000. No fqys stated. All programming fully aut-
 mated, taped in Johannesburg and transported to Swaziland. Will feature Country and Wes-
 tern Mx, "Pop" mx, in the evening, heavy pop sounds. (Chris Drake via Dick Heggs, Canada)
AFARS & ISSAS Heard here at 1955 with Somali type mx and time pips 2000, ID, and off after
 anthem (Dan Henderson, Md.)...QSLed in 32 days after follow up report in FF (Al Niblack, Ind.)
AFGHANISTAN Kabul, 11785, EE news 1800, //by 9530 listed, not audible. (August Balbi, Cal.)
AZAD KASHMIR (FLASH...FLASH) 4730 Station believed Azad Kashmir R., heard at good lvl, 1230-
 1400, native mx, news. (Don Jensen, Wisc; Dan Henderson)
BANGLADESH (FLASH) 15528.5 Evening transmissions from Gen Oseas Svc heard with news in EE
 at 1230. S/off at 1300, among other transmissions and fqys. (H. Robert Bundy, Caroline Is.)
BOLIVIA (FLASH) 5055 R. San Rafael definitely IDed at 2200 fade-in, better strength at
 2211 in SS, and frequent IDs. RTTY often blocks the channel. (Fred Heutte, Jr., Washington,
BRAZIL 4785M R. Ribamar from 0121 tune, LA mx, clear ID 0200. Sender at good lvl, / D.C.)
 but QRM & QRN. (John Tuchscherer, Wisc.)...11795 R. Nacional in PP, many IDs, 0000-0130 be-
 yond, nice. (Ed Insinger, N.J.)...11950 Radio MEC anncing just like that at 2230 after FF
 and piano mx; is of course, R. Ministerio da Educacao under an acronym. (Fred Heutte, Jr.)
BURMA (FLASH) QSL in for Rangoon 5040, today. Yahoooooooooooooo!!!! (Ralph Perry, Ill.)
COLOMBIA 6016A Think this one is rather R. Mira. (Gerry Dexter, Wisc.)...R. Continental
 6125, now in clear nightly since Suyapa moved. (Dr. R.E.Wood)
COMORO IS 7260 ORTF, Moroni, heard under BBC again at 0337 with chant. (Dan Henderson)...
 This one QSL, in 16 days signed by Rene Poncelet, after follow up letter in FF. (Al Niblack)
CONGO (R) R. Brazzaville, heard at 2215 with Afro mx, mixing with QRM, 4000. (Dan Henderson)
CHINA (PR) 2474.7V Hangchow 1130 local dialect, presumed Fukienese. (Bill Berghammer, N.Y.)
 ...R. Peking noted 0001, 7260 in Burmese; and on 7590 in SS. (Glenn Hauser, Tex.)
DOMINICAN REP 4774 Onda Musical has switched fqys, now down from 4782, 2300. (Ralph Perry)
ECUADOR 3984.7V Esc. Radiofonicos noted 1130 in SS. (Bill Berghammer)
GAMBIA 4820 RG QSLed in 27 days via form letter. (Bill Whitacre, Mich.)
GHANA 11850 Accra excellent in EE 2000-2104; also 2015-2103. (John Banta, N.Y.; August Balbi)
GRENADA 11930 WBS at 2100, new fgy in EE to UK, 1/16. (Bill Berghammer)
GREECE 6043.6V FBS S/cn 0430, preceeded by IS, 43433 SINPO. (Bill Berghammer)
GREENLAND 11745 Godthab QSLed my report in 49 days for this fgy. (Bill Whitacre)
GUYANA (FR) 3385 RC observed S/cn 0912, followed till 0939, all FF. (Bill Whitacre)
GUINEA (R) R. Guinea, 7125, noted 0535 with man in language. (Marlin A. Field, Mic.)
HAITI 11835 4VEJ good S/cn EE prgm 2300, now annos 10Kw. (August Balbi)...This one, 11835,
 noted at nice lvl 0050 to 0120, at which time QRM pushed the QRM away. (Ed Insinger)...
 6195 Radio Haiti, found 1/9, 0315 with FF, musical prgm. (Marlin A. Field)
HONDURAS REP 6055 R. Suyapa first noted here ex-6125 (en DXpedition to Guatemala w/Gregg
 Calkin.) Heard all day. IDing for 6055, requesting reports and promising souvenir (Dr. R.E.Wood)
 ...5965 Noted all day in Guatemala ID'ing as, "La RH de Honduras, R. Cadena Occidental" (Dr. R.
INDIA (FLASHES) Under extraordinary conditions, tentative loggings of Indian Reg-c, E. Wood
 ionals of Simla, 3223; Gauhati, 3225, 3375; Lucknow, 3205; Kurseong, 3355; and Bhopal, 3315,
 around 1300 time slot. The first three rather weak, the latter three fair to good (Don Jen-
 sen)...3905 AIR tentatively heard 2320 in native songs and YL annor; QRM de AROs. (Dan Hender-
INDONESIA RRI, Medan, 5083, heard with pops mx, vocals; also airs an Djakarta / son)
 broadcast. (A. E. Martin, England)
ISRAEL 6170 Kol Israel on NF 2000-2045 Hebrew//9009, 2625, 12/10. (Bill Berghammer)...IBA
 Jerusalem, EE on 6180, fair sigs; annos experimental 7225 at 2100. (Ed Insinger)
IRAQ R. Baghdad, many EE IDs, 1958-2015, on 9745, fair lvl with news, mx. (Ed Insinger)
JAPAN JOZ, NSB, EE/JJ lessons, 0330 and 1430, on 3925//6055//2595. (August Balbi)...3910
 FEN at 1115 in language, possibly EE. (Bill Berghammer)

PLEASE TURN OVER

KASHMIR 3277M Tuned Srinagar and found with fair signals 1245-1300. Indian mx, sitars, tablas, etc, rather weak lvl but abnormally low background noise lvl, apparent ID at 1300 by M, but no actual ID, so consider tentative, FLASHES Don Jensen.

KENYA 4915 Lucked in on Nairobi one night when the LAs were attenuated, 0315. (John Tusch-cherer)...VOK, 4915, in Swahili, ID at 0400, news. Fair lvl. (Forester Isen, Md.)...This one is showing well in Calif on 4915, around 0300, is Nairobi. (Jim Young, Calif.)

KOREA(N) 4274.6V KCBS observed at 1215 when in Korean language. (Bill Berghammer)

KUWAIT 21605 RK noted in AA language at 1030, 42432. (Bill Berghammer)

LESOTHO 4800 R. Lesotho positively here at 0403; finally enough for a report (Marlin A.

LIBYA 0630 Heard with excellent sigs 2220 with AA news (Dan / Field; Dan Henderson)

LUXEMBOURG 6090 RL in GG 0730-0815, heard well on 10 January, / Henderson)

very seldom any good here in Calif. (August Balbi)

MADAGASCAR (FLASHES) Received a special QSL card from RN for their "M" test transmission 1230-1349, 12/25, on 15330. QSL shows a map of Madagascar. (Hiroatsu Matsuura, Japan)...

RN Relay "M", 15260, heard with ID at 1435, 12/26. My report brought a quick QSL. (August

Balbi)...15260 Logged at 1519; sent a report of the "M" Relay. (M. R. Leonhardt, Ind.)...

M Relay noted in EE on 15260, poor to gud sigs, 1411-1458, definite IDs. (Bill Whitacre)

...My report to RN's Madagascar Relay of 12/16, brought QSL card in 13 days. (Al Niblack)

...Heard 3/4/5/6, Jan. 1972, R. Madagascar on 17730 with peps, ID given as, "Ici Madagas-

car" at 1415. Before S/off gave ID in EE, said was International Svc. (A. E. Martin)

MALDIVES (FLASH...FLASH) 4740, Tent but probable, R. Maldives. At 1500 tuned the fgy, not-

ed in EE, only partially readable. Faded out at 1508; was a phenomenal opening. (Don Jensen)

MEXICO XEWW alternating 15175 and 15160, irregular dates and times. (Dr. R.E. Wood)...2220

At 1238 RCN jingle; 1250 net ID. Either XERCN or affiliate, from 1110. (Glenn Hauser)

NEW CALEDONIA 9510 Noumea strong signal 0800, //7170//11710, all FF. (August Balbi)

NICARAGUA R. Hernandez de Cordoba, Cedral, regularly active till 0000, 6099...R. Mar, 9580;

all day in Guatemala, many IDs for SW only. (Dr. R. E. Wood, both items)

NIGERIA 4900 WRHB lists this outlet as definitely Maiduguri. (Bill Whitacre, Ralph Perry)

PERU 6115 R. Union with sports, SS, till 0545 S/off. (Marlin A. Field)...4839.5 R. Atlanti-

da, moved here, noted 0455 S/off. (R.B. Odlin, Washington)...R. Loreto, 4765, 0227 ID; and,

R. Atlantida, 3215, 0910, with SS ads, etc. (George Schnaubel, N.Y.) (George, you puzzle me on

RHODESIA 3396 RBC heard with bells IS 0353, EE ID 0355 (Forester Isen) / these two, Editor)

RYUKYU IS 6010 VOA at 1328, EE ID, followed by cmtry. (Dan Jamison)

SEYCHELLES 11950 FEBA, heard at 1745, 1800 full ID in EE, best ever. (John Banta)

SIERRA LEONE RSL excellent 0800; 5975 is the place to really hear them. (Ralph Perry)

SOLOMON IS New WRHB lists SIBS as moving to 9775 (ex-7235) VQ07, 5Kw. Wow! (Ralph Perry)

SPANISH SAHARA R. Sahara heard no strain lvl, 0800 with RNE IS, 7230, AA. (Dan Henderson)

TAHITI New fgy 9730, sked 0300-0800//11825, both good daily. (Dr. R. E. Wood)

THAILAND 6012 Thai TV heard with fair signal 1245 in Thai news cmtry. (Dan Henderson)

TAIWAN 3990 AFMT, 1115 language, too weak, hams! (Bill Berghammer)

TANZANIA ZANZIBAR 3339 RZ noted 0328 with IS, 0330 into language, AA chants. Good signals.

...Heard daily with whopping good signals. Drums IS at 0327... (Forester Isen, Dan Hender-

son, and Jim Young).

TIMOR (FLASH) 3268 R. Timor heard 1415 strong lvl, in FP, SINPO 34433, no QRM (Jim Young)

TURKEY 9515 TRT at 2208, standard ID by YL in EE, plus fgy's. (John Banta)

VENEZUELA 15225 O106, R. Nac. de Venez, frequent IDs by M, light mx. (Dan Jamison)

UGANDA 5026 RU heard with EE news 2100. (Forester Isen)

USSR(AZERBAIJAN) Baku local IS 6110, through BBC at 0230. (Dr. R. E. Wood)

YEMEN 5805A R. Sanaa logged 1/9, 0345 in AA, best ever--faded out 0435. (Marlin A. Field)

DECEMBER 1971: SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 1-7-72- 1-64, 2-69,

3-80, 4-63, 5-70, 6-92, 7-107, 8-83, 9-108, 10-117, 11-125, 12-115, 13-95, 14- 85, 15-98,

16-89, 17-131, 18-126, 19-119, 20-105, 21-99, 22-94, 23-84, 24-97, 25-91, 26-76, 27-82,

28-70, 29-60, 30-54, 31-52 MEAN--90.3

PREDICTED: JAN-52 FEB-50 MAR-48 APR-47 MAY-45 JUN-44 (Grady Ferguson, No. Carolina)

ACKNOWLEDGEMENT: THANKS to all those who really made this a FLASHSHEET this month. Please keep the reports coming. Technical questions may be addressed to this department, just supply an SASE. Last minute flashes may be phoned to 882-3976 after 2200 GMT (as so many of you did this month). DX conditions have been good to tremendous. See 'ya, and vy 73, AL 25 reporters this time.