

# FRENDS

The SHORT WAVE BROADCAST Journal - Since 1962

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



**JULY 1972**

Annual membership fee \$10.00 with twelve monthly bulletins via first-class mail in continental U.S., via seammal overseas. Airmail rates available on request.

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COVER PHOTO THIS MONTH - see page LN-1.

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According to our records your membership in NASWA expires with the JUL 1972 issue of FRENEX. It is the hope of the bulletin staff that you have found your membership enjoyable and useful. We look forward to having you with us for another year. If you will be renewing, it will help us if you do so as early as possible, so that we can be sure that you receive each copy of FRENEX on time. Members in North America should remit \$10; the same fee covers delivery of the bulletin via seammal overseas. Checks and money orders should be made payable to NORTH AMERICAN SHORTWAVE ASSOCIATION, and should be sent to NASWA, P.O. Box 989, Altoona PA 16603, U.S.A.

FOR OVERSEAS MEMBERS: Due to the slowness of seammal, the monthly bulletin can be sent via AIRMAIL. This is much faster, and many members have found it worth the extra cost. AIRMAIL delivery to your location is available for US\$ \_\_\_\_\_. This includes membership and the additional postage for airmail delivery. Overseas members should remit via postal money order only, payable to NORTH AMERICAN SHORTWAVE ASSOCIATION.

TO ALL MEMBERS: When renewing don't fail to take advantage of the opportunity to let us know your comments and suggestions regarding the bulletin. Thank you.

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NOTE FROM PUBLISHER: When writing about your membership, please mention date of expiration. Thank you.

## BOSTON BOUND!

Everyone knows, or should know by now, the 7th annual convention of the Association of North American Radio Clubs (ANARC) will be held July 14-16, in Wakefield, Mass., near Boston. Having attended five of the previous six ANARC gatherings, I can tell you flatly: YOU SHOULDN'T MISS THIS ONE! I can also predict that on that weekend, there will be some guys sitting at home wishing that they were there, but aren't!

Why? There are several reasons that will be given...but few are really valid.

(1) "I wouldn't fit in. I wouldn't know anyone there. I'm a newcomer to DXing and I'd feel out of place among all those experienced DXers." Nonsense! I've yet to find anyone, regardless of age, who came away from a convention feeling he'd been a lost soul. When listeners start talking DX it doesn't make a bit of difference if you've been in the hobby six months or 50 years, if you're 15 or 75! DXers, when they get together, are a friendly and gregarious lot. You may not know anyone when you arrive, but within a few hours you'll be swapping DX yarns, asking questions, getting answers, propounding your theories on DXing, with all the rest!

(2) "Maybe I won't have any fun...dull meetings bore me." ANARC meetings are so informal and informative that they're nothing but fun. Do you like to meet people, the names behind the reports you see in the bulletins? Do you like to swap tales about our grand hobby? Stay up, literally all night, DXing and talking about DX? Meet people like Eddie Startz, long-time host of Radio Nederland's "Happy Station" program? See displays of SW gear? Sit in on fascinating panel discussions of some of the current issues of the day in DXing? Win prizes? Then I guarantee -- you'll have fun !!

(3) "I waited too long to decide if I was going." Ah, the old devil, procrastination. There are now only a few weeks left. Act now. Decide, decide. Right now, and I mean right NOW, tell yourself, "Yes, I'm going!" AND right now, drop a note to Steve P. d'Adolf, 16 Westgate Drive, Apt. 201, Woburn, Mass. 01801, and say, "I'll be there!" Not tomorrow -- NOW!!!

(4) "I'd like to go, but I can't afford it..." This is probably the most common explanation, particularly among students and younger DXers. This is understandable, but, attending a convention may not be as expensive as you think. There is a minimum expense of \$12 for the convention registration fee. Beyond that, cost in attending the convention is pretty much up to you.

Assuming that the cost of air, train, or even bus fare is prohibitive, driving can be relatively cheap if you have, or have access to a car. Six guys driving from up to 500 miles away from Boston should be able to round-trip it for under \$20.00 each. If you're a hitchhiker, and have the time, you can cut travel expense to nothing.

A single room at the Colonial Hilton Inn, where the convention will be held, is \$18 plus tax per night, or \$36 for the two night of the convention. If you can't swing two nights, arrive Saturday morning and sleep over only that night. Or, as many do, share a room with another DXer -- convention hosts will help line up something for you, pair you off with someone else, if you wish. That way the room cost will be only \$11.50 a night. If this is too much for your wallet, I'm willing to bet you'll find some other DXers who'd let you flop your sleeping bag on the floor of their room for nothing. After all, based on past experience, you'll probably only be sleeping an average of a couple hours a night, so who needs a private room?

Food costs? Well, your registration pays for the Saturday evening banquet and Sun morn breakfast. That means you'll have to purchase Friday's supper and Sat.'s breakfast and lunch. Toast and coffee, hamburgers and coke don't cost much. How you eat and what it costs will depend on your tastes and appetite.

No, cost need not bar one from attending the convention. And, if you do make the convention this year, I', willing to bet that before you leave, you'll be planning for next year's. Make the commitment to yourself NOW, though: send the registration fee to Steve..TODAY!!! And, see you in Boston! ---Don Jenson

WELCOME NEW MEMBERS!!!

Baxter W. Hensley, Gentry, Arkansas. Via Communications World.  
 Calvin H. Clark, Irwin, Pennsylvania. Via Radio station HCJB.  
 Randy Malke, Carignan, Quebec. Via member Norman Hanocheruk.  
 Gerald W. Donnelly, High Point, No. Car. Via Communications World.  
 Mark C. Pugh, Williamsburg, Virginia. Via FE Communications Handbook.  
 Michael Wiseberg, Weston, Ontario. Via Elementary Electronics.  
 James A. Toney, Macon, Georgia. Via Communications World.  
 Leslie Geir, Edinburg, North Dakota. Via FE Communications Handbook.  
 Arthur Smith, Wilsonville, Alabama. Via Boys Life magazine.  
 Danny Richardson, Cambridge, Nebraska. Via Communications World.  
 Eric DiRiccio, Pittsburgh, Pennsylvania. Via FE Communications Handbook.  
 F. William Black, Aurora, Colorado. Via Communications World.  
 C. P. Palmer, New Orleans, Louisiana. Via Communications World.  
 Ciro Guarducci, Cassiar, British Col. Via Communications World.  
 Michael Herman, Cicero, Illinois. Via World Radio-TV Handbook.  
 Harry L. Helms, Carrboro, North Car. Via International Radio Club of America.  
 Gabriel Gely, Shishmaref, Alaska. Via FE Communications Handbook.  
 Stan Klem, Davenport, Iowa. Via World Radio-TV Handbook.  
 Harold M. Reams, Kalamazoo, Michigan. Via Communications World.  
 Chris Kunststadter, New York, New York. Via American SWL Club.  
 Henry A. Dammeier, Pleasantville, New York. Via Hank Bennett/WDX Hdqs.

RENEWALS

Second year; Michael Brambley, Robert Kelleher, E.F. Seaman, Steve d'Adolf, Jay Goldstein, Joe Quintanna, R.A. McLeod, Al Miller Jr. Third year; Richard Fortson, Alan Kroll, Gerg Kelley, Mark Schwing, Mario Sala, Sebastian Torrissi, Fourth year; Robert Bowman, Dr. W.H. White, Cal Cornils, John Callarman. Fifth year; Dr. Thomas Williamson, Sixth year; Stanley Mayo, Art Sievers. Seventh year; Senör Cesar Objio.

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

HELPING HAND SERVICE

Wanted: JoyStick antenna and matching tuner. Must be in good operating condition. Please contact Ed. J. Pyatt, 1715 Singleton St., Conway, South Carolina 29526.  
 Wanted: Male or female SWL/DXer who would like to tapespond via cassette. I am 14 and at present my HIG/VIC is 60-50. Write Dillard Stone Jr., 1306 West 11, Freeport, Texas 77541.  
 Wanted: I am a Japanese student, age is 17. Am very interested in DXing, but would like to exchange stamps with other DXers. Write Kunio Tsutsui, 177-3 Kitanoda, Sakai-city, Osaka, Japan.

LATEST AWARDS ISSUED

Awards chairman Warren Nordgren lists the following NASWA members having earned certificates. All are WorldWide DXer.  
 Frank Peters (200 countries verified) Bill Plum (50 Countries verified) Gerry Dexter (200 countries verified) Stephen Dildine (75 countries verified) Richard Clawson (75 countries verified)

SPEEDX OFFERS AID

SPEEDX has formed a "Handicapped Aid Program" to bring needed assistance to the numerous physically handicapped people who might like to enter the SWL/DX hobby. No 'charity' is offered, only help in getting into a wide new hobby world. If you know of anyone, please send their name and address to: H.A.P. Chief Coordinator-Gene Moser, 6805 Woodland Ct., Coloma, Michigan 49038.

BOD IN ACTION

If you be one of those members who wonder why there has been no mention of election this year, it is due the fact that NASWA Board of Directors and Headquarters are contemplating a new set of rules/regulations/guidelines by which the club will be operated/governed. Being we are now a large worldwide organization, a more complex system is needed. Although our constitution served us well in the past, it has now become outdated. Watch for further developments hereto in future bulletins.

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 \* IF YOU PLAN TO BE IN OR NEAR THE BOSTON  
 \*AREA DURING THE JULY 14-16 WEEKEND, BE  
 \*SURE TO ATTEND THE 1972 ANARC CONVENTION.  
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## THE LOUDENBOOMER REPORT

Do those funny words and abbreviations that DXers use cause you headaches? Do you find yourself baffled when you read a club bulletin because of all the unfamiliar hobby jargon? Well, fret no more! Help is at hand in the form of the new Loudenboomer Unabashed Dictionary and Abbreviations List.

This immensely useful reference volume was recently published by Sam Wong Press and Dry Cleaning, San Francisco, and, if not yet in your public library, copies can be ordered direct from the publisher or ye faithful scribe at a mere \$24.95 per.

To give you an idea of what the book contains, however, I've extracted a number of items from its pages:

A -- Abbreviation for "approximate frequency." Anything within plus or minus 500 kilohertz in actual practice.

M -- "Measured frequency." A technique only for the experienced DXer since it requires proficiency with a yardstick and a sharp pencil for making decimal points.

Hrd -- A passel of cows; or occasionally a lot of bull.

Tent. -- A crude shelter used by a DXer to protect himself from the elements.. who otherwise might suspect the station he heard at high noon on 90 meters wasn't really Radio Matabeliland.

Fade -- What a shortwave signal does at precisely 59 minutes and 59 seconds past each hour.

Rx -- Prescription for the bite of the DX bug.

Freq. -- Side show attraction

Freq, meter -- Stage Door Johnny at the circus.

HZ. -- Lacerations and abrasions.

Kos. -- A thousand Hells Angels.

mHz. -- Result of a "rumble" involving a thousand Hells Angels.

E+ -- Passing grade in basic electronics course.

EE - EEnglish LLanguage

Lingo -- Any announcement spoken in other than EE.

Lang. -- Variant of "lingo" except may actually be EE if the signal strength is S1 or less.

Nx -- News

Mx -- Mews-ic

DX -- Annual club membership fee.

s/on -- male stepchild

s/off -- Exclamatory instruction to depart quickly, as in "S/off, Charlie!"

IRC -- To irritate or annoy.

Mint stamps -- Postal commemoratives honoring the 100th anniversary of the invention of the julep.

QSL -- Card or letter definitely proving you maybe heard a station.

LW -- Any antenna over 4cm. in length.

Dipole -- What Mrs. Kowalski shouted at Mr. Kowalski when she found him with the chorus girl.

SWL -- Great, fantastic, as in "Band conditions are just...."

Condx. -- Fraudulent and deceptive reports of logging rare shortwave stations.

ANARC -- Just a bit short of anarchy.

FRENDX -- A former pal.

SPEEDX -- Reception of radio signals from a German pocket battleship.

73 -- Goodbye in ham jargon. Not to be confused with 220, which is goodbye in any language.

And I had better stop here. Otherwise you won't have any reason to send me that \$24.95! See you next month.

220,

Charlie

(NOTE: If you are at the ANARC Convention in Boston July 14-16, look for me, I will be there. Dont expect to find me in any common place though...look for a stack of empty beer cans, I'll be nearby...somewhere.)

# MAIL CALL!



Deadline: 12th of the month

Edward C. Shaw  
621 Burtleigh Avenue  
Norfolk, Va., 23505

LETTERS TO THE CORRESPONDING SECRETARY

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## A NOTE OF THANKS

With the first MAIL CALL in the June issue of FRENDX I was pleasantly surprised at the number of letters in response which came in the first week. I will try to print as many excerpts from member's letters as possible each month. However, the number of bulletin pages and cooperation with other editors of FRENDX may necessitate some occasional reduction to one page. Another point that I wish to be clear from the very beginning is that this section will not become a battleground to defend and rebut varying points of view among the members. Neither will a single point be covered again once previously printed. Any member will receive a prompt reply to any question in return for a self-addressed and stamped envelope - whether or not his point is printed in MAIL CALL. And so, to this month's queries and answers.

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Dear Uncle Ed: I wonder if there are any laws which prevent (or frown upon) the desire we have to seek QSLs from the Communist countries - particularly North Vietnam?

Answer: My own experience with this question was satisfactorily answered by my (Then) Senator Thruston Morton of Kentucky. In his letter to me - after being advised by the Postmaster General - Senator Morton wrote: "...Several of the U.S. Government Agencies, including the Post Office has full knowledge and acquaintance with your hobby. There is no danger in writing to any of these countries. In the case of your desire in acquiring a QSL from Hanoi, I advise you to write directly to the station. Even though the U.S. has no diplomatic or any other recognizable agreements, your letters are being delivered through unofficial channels via Hong Kong and Peking"....

Dear Ed: I would like to improve my DXing technique. I know many DXers use headsets which enable them to listen to radio signals undisturbed by extraneous noises around them in their homes. Which kind of headphones would you recommend?

Answer: There are many types and kinds of headsets in use today among DXers, and I can only give one opinion. In DXing, I am interested in hearing mostly voices and music for identification purposes. A set of headphones that will give a frequency response to most narrowly cover this range adequately will serve best. I DO NOT recommend Stereo or other Hi-Fi earphones with wide frequency response. These will reproduce low bass tones as well as high treble crackle - thereby interfering with your objective. Stick to the advertised communications-type sets in Allied, Lafayette.

Dear Ed: I remember reading that you could supply members with names and addresses of other members in their areas. Is this service still available? Wouldn't it be simpler just publish a list of all NASWA names and addresses?

Answer: Yes, this service is still offered on a limited basis. No geographical charts are kept of the membership, and each query necessitates a thumb-through of the membership card file. That is time-consuming, and prompt answers for these requests cannot be answered for that reason. As to membership lists, this was once tried, but it seems that certain member(s) began using their lists for commercial mailing list purposes and we no longer lend ourselves to this practice.

Dear Ed: My letters to Headquarters continue to go unanswered about the whereabouts of my "new member" package.

Dear Ed: Letters to headquarters asking about membership certificates and seals have not been answered.

Answer: While there may be some inconvenience to some members, we ask that you continue to have patience while details are ironed out during the illness of Mr. Eddings.

# "Shortwave - Center"

Editor: Ralph W. "Ralphus" Perry  
1136 Bristol Avenue  
Westchester, IL. 60153  
(...summer address...)

Deadline: the 15th of the month!

The NASWA Spotlight on...

## Radio Tanzania

(...translation from Kiswahili original by Mr. Albert Scheven.)

**"WE BUILD THE NATION BY RADIO":** Saba-Saba is one of Tanzania's great holidays not only because it commemorates the founding of TANU (the party which voiced the will of the people of Tanzania and lead to the realization of Uhuru, or Independence), but also, above all, it is the yearly renewal of our will to build the nation. It is the occasion to see where one has succeeded and to see where one has failed. Radio Tanzania, under the Department of Communications and Tourism, has not been on the sidelines of national development. Let us tell you how radio is important to Tanzania.

First of all, radio reaches all people and can therefore remove barriers which may divide men and tribes, and foster good relations among the inhabitants, thus creating a spirit of togetherness. Without this unity, our problems only increase. Secondly, the radio provides education and amusement, both of which help to raise our standard of living in Tanzania. Amusement programs help people living in inland villages to rest. We should not forget that man doesn't live only by work, but also by his leisure. If a man enjoys his free time, he will be better able to work in his fields or workshop..

Broadcasting also helps adults and students in the service of Tanzania to acquire knowledge and thus overcome our big enemy, IGNORANCE. It provides the listener with facts about both his country and also the world in which he lives. Now we come to the third aim of broadcasting in Tanzania: that is, to provide the listener with facts, and news, and to lead the nation. We all understand that the country cannot raise itself up nor can we build our nation to one of progress and prosperity without the efforts of all our citizens. All together they can raise the standard of living and the expectations of the land. Radio broadcasts make it clear to Tanzanians how to best realize their own progress.



(ABOVE: the RT broadcast control)

RADIO TANZANIA - DAR ES SALAAM  
(..continued..)

A Short History of Radio Tanzania

Radio Tanzania, Dar es Salaam, as we know it today, started as Sauti ya Dar es Salaam in the year 1951. At that time it was a very small station, it's studios were quite modest, facilities quite limited, and there wasn't as much transmitting equipment as today. It was located in Kichwale Street (now Uhuru St.) opposite the Uhuru Primary School, and near the East African Breweries Co., Ltd. There were few listeners. After Building powerful transmitters of 20 kilowatts on Pugo Road in



1956 and after increasing the number of employees and broadcasting hours, the station was named the Tanganyika Broadcasting Corporation. The actual studios were then occupied and everything was then "kem-kem". Since we had more power, we reached more listeners: not only in Dar, but also now in Ktwara, Moshi, Arusha, Mara, Singida, Dodoma, Mbeya and many other sectors of the

country could now listen in. But there were still some sectors of Tanzania which had no clear reception as of July 1, 1965 (e.g. Kigoma, Kasulu, Mwanza, and Bukoba.) On the first of July, 1965, the constitution of the Tanganyika Broadcasting Corp. was approved in the House. Although all else remained the same, the government now took control of broadcasting. Taking the name "Radio Tanzania - Dar es Salaam", it was incorporated into the Department of Communications and Tourism.

Radio Tanzania: The Kiswahili Section

This section is an important and steady means of giving the people news, knowledge and recreation. Here the speeches of our leaders and the achievements of our people are broadcast. The nation's policy of "Ujamaa" (brotherhood) and "kujitegemea" (self-help) are daily explained in detail. We don't give formal education, as is the case with the School Section of the Radio, but even so, we have many hours of world affairs...however, if we were to broadcast politics and news all day long without resting the brains of our listeners, we would soon find ourselves broadcasting to empty rooms and those who are thrifty in buying batteries would turn off the radio and the cockroaches would find a free homestead. That is why we have a fair number of hours dedicated to gladdening our listeners: Mambo Show, Makorama, and Maoki Yenu are only a few of such programs. The total number of airhours per wk for this section is 95.

Radio Tanzania: The English Section

This section is younger than the Kiswahili section, but when it was born, it was stuck within the same branch. In the course of time it received its own quarters. Besides the transmission of the usual national cultural, political and entertainment programs, this section also transmits matters foreign to us but profitable to the advancement of our nation. Broadcasts come from the United Nations and different countries of Europe and Asia, and it would be too difficult to translate it into Kiswahili. News is on three times a day and we have many hours of enjoyable music. Part of these English broadcasts - especially the music and entertainment features - comes from overseas. We are on for 39 hours a wk with local English programming, too.

Radio Tanzania: Branch of Conversation and Foreign News

This branch can be compared to a factory because all talks in Kiswahili and English are made here before they are broadcast by other branches. It's our task also to record outside of our studios important meetings, visits, football games, boxing matches etc. The other section of the branch provides news of countries abroad who are helping or hindering total African independence.

Radio Tanzania: School Section

The important value of the Radio as a means of knowledge comes from the fact that it is capable of bringing often and quickly significant news and facts. Thus, in the effort of teaching, the school radio helps the teacher to use means that he would otherwise be unable to obtain or hear. It also makes accessible the know-how and teaching of the teachers who are highly qualified in certain matters. Experts of this kind are few, and cannot visit every school. In this way the radio shares equally their expertise among all schools who can listen in. Broadcasts are for Primary and Secondary schools, and there is also a program dealing with "Teacher Training College". Helping our teachers is very important, and so we devote special transmissions to this purpose.



(Going through a geography lesson before recording.)

Radio Tanzania: The Foreign, or Business, Sector

We broadcast only 10 hours a day. It is our aim to be heard across the borders of Tanzania and it looks as if we have been successful. This branch started in 1965. There are two aims of the External (Business) Section: a) to notify the business world about the available produce of our people, and b) to secure funds for our station, Radio Tanzania. There are two divisions in the compilation of these transmissions, one which collects the business news, and one which edits the news and sets up the programming to make it attractive for listeners. For many years Tanzania bought imports. We are trying to change this mentality - now everybody knows what we make in Tanzania. Our policy, our culture, and our honor are all considered before we broadcast any message.

Radio Tanzania: "The Newsroom" Program

Upcountry people do not get newspapers daily. They depend on the radio for news. We try to broadcast news that is fully true. While we have our own newswriters, we also buy much news from Reuters (London) and we also monitor broadcasts of world radio to supplement this. Using English and Kiswahili, this program tries to present all the news which is important for a young, nation-building people: how to live together, work together, helping one another. We're on the air 18 hours a day...

--30--



ASIAN

DX.....Radio Singapore



The Broadcasting Division of the Ministry of Culture operates the radio and TV services in Singapore. Radio Singapore transmits services in 4 languages: Malay, Chinese, Tamil, and English on separate channels in the MW, SW, and FM bands. The total number of hours over the air averages 525 per week. Each language svc also carries commercial advertisements and sponsored pgms. However, no ads are allowed in xcasts, talks, serious mx pgms, documentaries and features. The language services present programmes designed to promote mutual appreciation among various racial groups. It is estimated that over 70% of the population of Singapore tune a RTVS bc daily. Radio & TV Singapore is often well heard in N.Am. winters, w/EE xmsns on 11940 and 5051 kHz...Selamat Lagi!  
 ...via John D. Tuchsherer

## CAN YOU

DX TILL IT HERTZ???? .....Mission:Impossible !!  
by Gerry L. Dexter, Wisconsin



So you think such goodies as Tristan Radio and the Falkland Island Fcing Service are rare and difficult DX? Those two stations are just the more famous ones: like an iceberg, there's more beneath the surface -- much more. Stations that are seldom noticed in the listings but rival or exceed the likes of Tristan and FIBS in terms of mere challenge and rarity!

Turkey is the location of a number of low-power, short-scheduled, and scarcely-heard xmtrs. One such is Bursa Educational Radio, in Bursa, operating on 6925 kHz.

Up in the North Atlantic there are a couple of recently discovered (hi) outlets (cf. the new book by Alister MacLean), one on Bjórðya (Bear Is.) on 1757 kHz, and the other on Jan Mayen, using 1722 kHz..... Both operate with just 200 watts of power and are only on the air during bad weather condx, w/relays of the Tromsø, Norway, weather report.

Lesotho isn't as difficult to log as it used to be. But you can still make a job of it if you go after Radio Station 7PA22, using 100 watts on 3824 kHz from 0630 to 0730 on Fridays and Sundays.

A real powerhouse compared to most of these is Radio Universite in Madagascar. They use a whole kW/s on 3370 kHz. Best time to tune would appear to be during their 0315-0430 GMT segment.

Another African, this one in Mozambique, even has two rough outlets, 3240 and 7235 kHz. It's Emisora do Aero Clube da Beira, in Beira, using 300 watts.

In S. America you might take a shot at Radio Kickerie, N.V., in Surinam. There is some doubt as to whether this one even exists or has ever been on the air! If you want to try, check 3240 kHz from 0930 s/on. Maybe one day their 75 watts of power'll make it to your QTH!!

There are many more after you've logged these. You might try the Israeli Armed Fces Station on 6335, or Australia's Melbourne Royal Instit. of Technology, being technical lessons to 0515 GMT s/off on 5370. And how about R.Terapetra on the island of Crete? They just make the SWBC band with their fqy of 1614 kHz..... and that's variable, by the way.

One thing's for sure, and it's this: there can never be an "Alexander the Great" in the hobby of SWC DXing. There are always new worlds left to conquer!!! --30--

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RADIO IRIS, ESMERALDAS - 3381 kHz

"The Older Station in the Province w/the More Modern Equipment"

This well-known and well-heard Ecuadorian station, HEDY4, was founded in 1950 with equipment running a meager 200 watts. Although the WRTM notes 5 kW/s power for Radio Iris Esmeraldas at present, in actuality they are only managing to pump out 2 kilowatts -- this according to Mr. Daniel Alvarez Tenorio, the studio's manager. The city of Esmeraldas has approximately 80,000 inhabitants, and its very beautiful beaches on the South Pacific shore attract a multitude of tourists every year, in fact, so many that a special seaside airport has been constructed to accommodate the flow of vacationers. Also, within the city of Esmeraldas, according to the manager, has been erected the first petroleum refinery in the state: it is capable of processing 60,000 barrels of oil @ day. ....via NASWAer Steve Dildine, Va.

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Relax, DXers. The "death-bells" have quit tolling, at least for a while. Our own Al Reynolds, Tenn., sends the following excerpt from "The Future of International ECing", ANNALS OF AMER. ACAD. OF POLI SCI, 10/71: "...Will satellites make it possible for Moscow, the VOA, and other ECers to beam TV as well as radio directly into homes? The U.N. Working Grp says no, not for a long time. And in a July 1970 rpt to the White House, USA experts came

SATELLITES:  
SWBC-R.I.P.??

to the conclusion that satellites ECs are economically out of sight. "Such a satellite could provide a single voice channel to an area the size of Brazil for between \$40-\$50 million @ year. ...the VOA is presently reaching the entire W.Hemisphere for \$1.5 million using terrestrial HF trx-s for as many as three different pgms simultaneously...The VOA has used PTP satellite stations on an experimental basis to feed FE rly stations. They were more reliable than SW, but more expensive...."

SHORTWAIVESHORTS .....Random Notes and Juicy Tidbits From the World of SWEC DXing.....Death of a Rumor: RN & SSB

The old rumor-mill cranked out another little gem, and many of us swallowed---hook, line, and sinker. Perhaps you'd heard: with all the talk of SSB being in vogue, is almost seemed plausible that Radio Nederland might be a trailblazer in this direction. RN on SSB...Our own NASWAer Mark Welsh, OH wrote RN, and his answer over the DX-Jukebox: "...Well, it is just that, a rumor. Present-day AM broadcasting xmters are not equipped for transmitting single-sideband, and for another thing, the standard for the suppression of the carrier has not been accepted or even proposed by the CCIR. So the broadcasting stations are only following developments with a watchful eye, and you may expect no SSB transmissions from us for the next few years at least..."

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Finland Resurrects DX-Show

Many of you may recall that, dating back from 1957, the FDXCI (Finland's DX-Club International) had an English lang. DXpgm over the FEC...in fact, the 20-minute weekly shows represented the sum and total of Oy Yleisradio Ab's English foreign Svc. W/the development of OYA's own EE Dept., the show was eventually dropped. Well, acc'ding to FDXCI, the show has been reinstated due to DXers letters, and will return to the airwaves in a 5-minute segment broadcast twice every Saturday, at 1800 GMT on 9555, 11755, and 15185 kHz for Europe, and at 2300 for N. America on 15185 kHz. A FDXCI member, Martti J. Pessi has been "sailing the seven seas" for some time now as a radio operator, and his collection of IS and ID tapes from all over the world will be a feature.

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NASWA Vietnamese Report Forms

Danny Jamison, our own Asian-DXpert reminds us that he has Viet rpt forms available CHEAP (free for SASE w/16¢ in postage). 7 mimeographed pges, Danny advises that it will be a boon for ALL SEA mainland xmsn rpts--esp. Laos & Khmer. Vietnamese is well-understood throughout much of SEA. Address: Danny Jamison, 700 McIntire Rd., Charlottesville, Va.

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"Omigosh!!!" Dept.

Acc'ding Marlin Field, TWR purchased 150 acres from the Bonaire gov't for 50¢. (!)

NASWA Country List: Ceylon Sri Lanka!

Colombo, May 22 (Reuters) -- Ceylon today officially became the independent socialist republic of Sri Lanka in a colorful ceremony that broke a 157-yr link between the island and the British Crown..."

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FLASH FLASH: NASWA Disclosed as Spy Ring

The title is of course only a jest, but the humor may be lost to some government officials. Read on:

"...The U.S. Circuit Court of Appeals (Philadelphia) upheld this week the right of the gov't to withhold mail from U.S. citizens if that mail comes from "enemy" countries (Albania, Cuba, China, N.Korea, and N.Vietnam). One can only get his mail by signing papers stating that you won't pay or haven't paid anything for the mail in question; one is guilty of "trading with the enemy" if he has paid for such mail. The confiscated items are communist literature, but no limits seem to be placed, so presumably forking over IRCs, mint stamps, or cash for a QSL can be construed as "trading with the enemy". The future seems to, as of the moment, be a big question mark..." via NASWA IR-EDITOR, Larry Magne, Pa. Who knows??

\* \* \* \* \*

TWR in South Africa: New Station

Acc'ding to our missionary station reporter Marlin Field, Mich., construction on Trans World Radio's prospective station in South Africa has still not yet started because, per a source in Bonaire, the South African gov't hasn't yet issued the station a license.

\* \* \* \* \*

RAI -- Radiotelevisione Italiana

Summary, item via Steve d'Adolf: INTERNATIONAL HERALD TRIBUNE of March 3, '72: RAI is up for contract renewal at the end of 1972. Monopoly broadcasting rights were granted it for 20 years, in 1952, and there is no real doubt that it will indeed gain the new contract. There is expected, however, some conflict. One of the most vocal opponents of the present set-up is RAI's incumbent VP, Mr. De Feo. He and others would like to see the monopoly that RAI and its affiliate system, SISTRA, hold be broken, and are in favor of the setting up of an independent Radio & TV network...Steve P. d'Adolf, MA.

**ECONOMY OF WATTAGE DEPT: VAC/QRF**

Once again, NASWA's own little "un-contest". Log and verify a station on each radio-continent and see how low your totals are. This month, we have an entry from Al Reynolds, Tenn.:

N.AMERICA-----GFCX, 6005 kHz..... 0.5 kW  
S.AMERICA-----R.Demerara, 5980 kHz..... 2.0 kW  
AFRICA-----EO, Azores, 4865 kHz..... 1.0 kW  
EUROPE-----Schulungssender, 6255kHz.. 1.0 kW  
ASIA-----VOA, Okinawa, 7165 kHz... 35.0 kW  
OCEANIA-----SIBS, 7235 kHz..... 5.0 kW

...quoth Al: TOTAL: 44.5 kW  
"..now if Asia would just secede from the NASWA country list, I'd be FB all the way, hi!!"

Next month, we'll have Ed Shaws's totals -- Why don't you send in YOURS...see 'em here in SWC.

**WHAT'S GOIN ON HERE????**

WVW on 9730 kHz? Surprized? Well imagine the reaction of NASWAer Corky Webb, TX when he logged this strange fcy (for a "standard fcy station"). The explanation emerged when he wrote for a veri on the freak transmission -- and you may well recognize it: "...Assuming your rx is properly aligned and its tuning dial is calibrated correctly, the most likely cause for reception of WVW at 9730 would be cross-modulation. C-m may occur whenever incoming signals become wholly or partially rectified in the radio frequency stages of the rx. It's most noticeable when strong signals, such as WVW and a local station, are picked up simultaneously at the receiving antenna. By driving the input stages into non-linear operation, the strong signals beat together to produce extraneous fcys equal to the sum and difference of the two original fcys. Thus, under favorable propagation condx the 2500 kHz signal from WVW could beat with the carrier from an amateur station operating on 7230 kHz to produce a third fcy equal to their sum: should the rx be tuned to 9730 kHz under such circumstances, either or both of the original bc's might be heard.."

**VERIE VALUABLE!!!**

The SWC encourages DXers to relate to us and share with NASWAers those very special moments/momento's that each treasures so dearly. This month Frank Peters of Illinois opens a can of Bud, pulls up the easy chair and "...as with many other DXers, I've a few QSLs I consider my 'prizes'. My QSL from Emisora Sindical, not because it's in the Canary's, but because it was a 350 watter. The QSL from R. Katanga signed by L.Samalenge, later killed by the Congo gov't troops. Or the QSL card from the short-lived Mali Federation. But especially my card from HLT on 5970 kHz, hrd Aug.11, 1959: the night of the ill-fated Cuba invasion. Orders, commands, etc--hrd!!!"

**YOUR DX-CALENDAR**

July:

- (17) S.Korea: Constitution Day
- Iraq: July Revolution
- (18) Uruguay: Constitution Day
- (19) Malaysia: Negri Sembilan
- (20) Colombia: National Holiday
- (23) Egypt: National Day
- Libya: National Day
- (24) Ecuador: Bolivar's Day
- Ethiopia: Emperor's B'day
- Venezuela: National Hol.
- (25) Costa Rica: Guanacasta
- (26) Thailand: Buddhist Lent
- (28) Peru: Independence Day
- (31) Congo Rep: Revolution Day

August:

- (01) Dahomey: National Day
- (02) Costa Rica: Virgin de IA
- Lesotho: Nat. Tree-Planting
- (03) Niger: Independence Day
- Tunisia: B'day Bourguiba
- (04) El Salvador: Aug.Holidays
- (05) Bolivia: Independence Day
- (07) Bolivia: Independence Day
- Colombia: National Holiday
- Fiji: Aug. Bank Hol.
- Guyana: Commonwealth Day
- Ivory Coast: Indep.Day
- Kenya: Bank Holiday
- Malawi: Bank Holiday
- Sierra Leone: Bank Hol.
- (09) Malaysia: B'day of Gov.
- Singapore: National Hol.
- Zambia: Youth Day

**THE DX-LIBRARY:****A Reference on SW Propagation**

In light of the outstanding course offered by R.Nederland, it might be a good idea for serious DXers to become more aware of other sources of technical information relating to high frequency propagation. One of the best books dealing w/the whole subject was written in 1970 by J.A.Ratcliffe entitled Sun, Earth, & Radio. For many years the author was assoc'd w/ the Radio Research Section of the Cavendish Lab at Cambridge Univ., and from '60-'66 he was Dir. of Radio & Space Resch station at Slough, England. While portions of his bk are highly technical, there are others offering much to the DXer. The first two give a clear explanation(w/many diagrams) of the ionosphere, its layers, and their relationship to radio transmission. Of special interest is Chapter 8 which suggests ways in which ionospheric layers affect various kinds of Ecing. A large number of photo's and drawings add greatly to the value of the book. Available for \$2.45 from McGraw-Hill...Dr. J. Ronda, OH.

From "Wired-Wireless" to External Svcs...BROADCASTING IN NIGERIA

Broadcasting in Nigeria made its inauspicious debut in 1932, the same year in which the BBC inaugurated TV experimentation and opened the Broadcasting House. On Dec. 19, 1939 the BBC commenced the Empire Service from Daventry to provide "political, cultural, and economic links between the UK and English-speaking peoples of the world". The significance of this is that the Empire Service required advisory monitoring stations all across the globe to best determine propagation quality, choice of frequency,

and general reception condx for Empire Svc broadcasts. Soon afterward, the BBC also offered to subsidize the construction of regional outlets for rebroadcasting of E.S. In view of the general world depression at the time which was running rampant, this offer was opportune for many less-developed nations---a means to provide a substructure for rudimentary broadcasting services was thus afforded, and quick to seize the chance were Ceylon, India, Australia, New Zealand, and many others, including, of course, Nigeria...

The task of devising a system to disseminate the BBC programs within Nigeria to the most densely-populated areas (Lagos, Ibadan, Kano) was given to the Nigeria Posts and Telegraph Dept. The scheme hit upon by this agency was referred to as the RDS, or Rediffusion System. It was in essence much akin to a one-way telephone network. The project soon earned the misnomer of "wired-wireless", as it consisted of a system of transmission lines running from the rediffusion station to the listeners' homes. By 1936, after a year of experimentation, the rediffusion system was fully operative, with the main RDS outpost at Lagos. Also by 1936, it was noted that a sizable number of Nigerians (and a growing proportion of the population) owned genuine, legitimate SW rcvrs. By the year 1939, the RDS expanded to include sites at Ibadan, closely followed by the inauguration of another at Kano. 1939 is of importance in the history of Nigerian radio for two main reasons: a) Locally-produced programs of limited-length which catered to the tastes of the local audience were

allowed to be broadcast over the RDS from Lagos, alongside the Empire Service; also, b) In 1939, operating with the callsign of "Radio Nigeria" and 300 watts of power, the first true wireless station started transmissions from a small shack on Ikoyi Island, near Lagos.

Following WWII, the RDS soon snowballed, incorporating sites at Lagos, Ibadan, Abeokuta, Ijebu-Ode, Port Harcourt, Enugu, Kano, and Zaria. In 1947, Calabar, Kaduna, and Jos went on the air, and a few years later, Warri, Katsina, Sokoto, Onitsa, Maiduguri, and Ilorin followed.

However, by 1948, the gross inequities between the highly-developed, war-bred European broadcasting services and Nigeria's relatively infantile stature in the area of radio broadcasting became increasingly apparent, with the RDS showing itself as being more and more inadequate. The Nigerians called on the BBC for advice.

The Secretary of State for the Colonies urged the immediate improvement of broadcasting in W.Africa, and accordingly commissioned a team of 2 BBC engineers. Their report, subsidized by the Colonial Development and Welfare Act of 1948, was to change the future of broadcasting in W.Africa. Based upon an 8000 mile tour of the territory, the "Turner-Byron Report" recommended that "...future coverage in W.Africa should be by BOTH wireless(wired) and by actual transmission, the former being economically limited to densely populated areas, and the latter being suited for the thinly-populated areas...". Also proposed was that Lagos, Ibadan, Kaduna, Kano, Enugu be made studio centers for regional transmissions specific to the needs of people in their locales, to be run in conjunction with a national program from Lagos. "The Turner-Byron Report was responsible for the development of broadcasting in W.Africa, and with certain amendments, it laid the foundations for the engineering plan that Nigeria has followed to this very day..."

Under the direction of Mr. T.W. Chalmers, an expatriate senior BBC Network-Mgr, the integration and transformation of the RDS into a true broadcasting system was undertaken in 1951. From the onset, financial and political considerations badgered his success. Rather than strictly adhering to the ambitious Turner-Byron Report,



VOICE  
of  
NIGERIA

Chalmers pursued a more conservative course: in accordance with government recommendations, studios were provided for Lagos, Kaduna, and Enugu --- and the Nigerian Broadcasting Service commenced operation in 1951. The NBS had planned to have all technical installations completed by 1954 (a three-year plan), but a series of unforeseen problems arose, most of them being associated with the transportation or operation of the new equipment within the tropical rainforest. An interesting anecdote in this vein concerns the NBS's first transmitters:

"...the famous Normandy Beachhead mobile transmitter was available for purchase; this was the xmtr which, in the dark days of 1944, transmitted the nightly war-rpt of the Allied invasion of Europe. It was an RCA 7.5 kW shortwave transmitter with a rectifier unit, mounted in two extremely large mobile vans, which also housed a mobile diesel generator. 7 years had elapsed since the transmitter had been assembled but apparently it was in a reasonable state of repair...There were difficulties from the start with this historic transmitter, though. On arrival,

By 1954, the NBS occupied portions of its new Broadcasting House in Lagos. Insufficient funds hindered similar edifices in Kaduna and Enugu, and there the old RDS stations were modified and used: the RDS site at Kaduna was on the air in May '53 with 300 watts. Thus, by the end of 1953, the first phase of Chalmers's plan was completed; and by 1955, all three cities were to have permanent installations.

Also in 1954, a proposal was made that the NBS be made free of gov't control, and be given status as a separate public corporation, in the mold of the BEC. After much legal discussion, the issue finally carried on March 31, 1957. The newly-formed Nigerian Broadcasting Corporation signed on for the first time--the NBC lived! The newly-formed NBC immediately embarked upon a 3-year plan to improve and intensify their service, mainly emphasising consolidation of the Service into the Corporation framework, raising the standards of programming, and expansion of facilities, accompanied by Nigerianization of personnel.

Controversy arose in 1959 when regional dissent was aimed at the NBC. The prevalent opinion was that the NBC represented a centralized, federal stance which in the main emphasised national programming, to the detriment of regional programming. Too much, the people felt, of the power was in Lagos. Also it was noted that a large amount of BEC programming was relayed to cover international news---and not enough broadcast time was devoted to purely Nigerian programs. Stemming out of this melee, the Western Region Government set up its own radio and TV Svc at Ibadan, with the East Region soon following suit. The situation of the nationally-run NBC and the 4 different regions was likened to a "wife with four husbands...she cannot satisfy them all..". Thus, in 1956, the Federal Gov't of Nigeria regained control of all broadcasting in Nigeria, and attempted to provide programming over the NBC which would be able to satisfy all the regions--something the independent corporation had failed to do.

In May 1960, the WNBS-Ibadan set a precedent in Nigeria by going commercial. Fearing now the possibility of being outbid by the WNBS in the ever-present struggle to recruit personnel and equipment because of the WNBS's new source of income, the NBC also went commercial on Nov.1, 1960. In Aug.1961, the Northern Regional Svc commenced transmission, and in Jan.1962, the Western Regional Service came on the air. The NBC now had equal footing with the regional governmental stations in the competition for local audiences.

On Jan.1, 1962, the NBC erected a temporary 10 kW shortwave outlet, operating 2 hours a day in French and English, directed to its neighboring W.African countries. The External Service was born. The Prime Minister, Alhaji the Rt.Hon.Sir Abubaka Tafawa Balewa made the first broadcast: "...On the behalf of the Government and the people of the Federation of Nigeria, I send you greetings wherever you may be listening to this new service of the Voice of Nigeria, broadcasting from Lagos.."

from Broadcasting In Nigeria, by Ian Mackay  
(former Director General of the NBC)  
Ibadan University Press

it was installed on the Gshadi site near Lagos, but it had not been designed to work in the tropics and the temperature inside the transmitter section registered 140°F. According to Mr.Milton, "...it simply refused to cooperate..". After finally being reworked into an operable state, the NBS had, for a gamble of 2000 Pounds Sterling, a unit which capably performed from June 27, 1952 until May 10, 1953, when the new 20 Kilowatts Marconi transmitter finally arrived..."

PHENOMENON OF THE DARKNESS PATTERN - EXPLAINED, Part IV by Ed Shaw

Summer season is really upon us now and the accompanying charts will be a greater value to you than ever before. The summer margins between sunset and darkness often mean the difference between a new catch and a near miss....

Remember The Cardinal Rules:

1. Low frequencies propagate best only between two points in darkness...
2. Figure 4 minutes of time added for each degree West of Greenwich (0°), or 4 minutes subtracted for each degree East of Greenwich...
3. The accompanying charts tell sunrise and sunset times for nearly any latitude in the world - in local time. Exact times may be guesstimated for latitudes and dates not illustrated (simple interpolation)...
4. And, for this summer season, let me add that low frequency DX will have fallen to its lowest ebb, and one shouldn't expect to accomplish great achievements. But good luck, and nice going if you do! Good DX has been found in all seasons.

RECEPTION OF TRANSMISSIONS BELOW 7,000 kHz

LAT.°	Reception unlikely after...					Reception unlikely before...			
	SUNRISE (Local hour*)					SUNSET (Local hour*)			
	9 AUG	19 AUG	29 AUG	8 SEP		9 AUG	19 AUG	29 AUG	8 SEP
60	0358	0402	0446	0510		2011	1943	1914	1844
58	0400	0420	0452	0514	N	2001	1935	1908	1841
56	0418	0433	0457	0517		1952	1928	1903	1838
54	0426	0444	0502	0520	O	1944	1922	1859	1835
52	0433	0449	0506	0522		1937	1917	1855	1832
50	0440	0455	0510	0525	R	1930	1912	1851	1830
45	0454	0506	0518	0530		1916	1901	1844	1825
40	0505	0515	0524	0534	T	1905	1852	1837	1821
35	0515	0522	0530	0537		1856	1844	1831	1818
30	0523	0529	0535	0540	H	1847	1838	1827	1815
20	0538	0541	0543	0546		1833	1826	1818	1810
10	0550	0551	0551	0550		1820	1816	1811	1805
0	0602	0600	0558	0554	EQUATOR	1809	1807	1804	1801
10	0614	0610	0604	0559		1758	1756	1758	1757
20	0626	0615	0612	0603		1746	1740	1751	1753
30	0640	0630	0619	0607	S	1732	1738	1743	1749
35	0648	0636	0624	0610		1724	1732	1739	1746
40	0657	0643	0629	0613	O	1715	1725	1734	1743
45	0707	0652	0635	0616		1705	1716	1728	1740
50	0720	0702	0642	0621	U	1652	1707	1721	1736

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

EXAMPLE CONFIGURATIONS for August 19, 1972 between:

Winslow, Ariz.	111°W	35°N	and
Warsaw, Poland	21°E	52°N	

- a. Winslow: 111°W x 4 mins equals 7 hrs 24 mins added to:  
 35°N local sunrise (0522) equals 1246 GMT.  
 35°N local sunset (1844) equals 0208 GMT

- b. Warsaw: 21°E x 4 mins equals 1 hr 24 mins subtracted from:  
 52°N local sunrise (0449) equals 0325 GMT  
 52°N local sunset (1917) equals 1753 GMT

Reception of Radio Warsaw at a QTH in Winslow, Arizona, is only possible for a mere 1½ hours after Winslow's sunset since Warsaw will be having sunrise at approximately that time. There is a path of darkness between the two points from 0208 to 0325 GMT. At 0325 GMT, although the night is in full swing in Winslow, reception will become unlikely since at that very time Warsaw will be experiencing the first rays of the morning sun, and the darkness path will no longer be complete.

Questions: ...welcomed if accompanied w/SASE to:

Ed Shaw, 621 Burlleigh Avenue, Norfolk, Va. 23505

-Our global community of DXers, viewed collectively, has from time to time brewed up some ingenious stratagems for dealing with hesitant verifiers -- true gems of public relations work mixed with the insight of a Shortwave Holmes. Some have even become standard operating pro-

toocal: take, for instance, foreign language reporting forms. We might tend to view 'em as commonplace now, but think of the many QSLs which must have been denied DXers in the past who hadn't the command of, say, Portuguese or Indonesian. And now, the use of the appropriate language in the majority of reports sent out to potential non-verifiers has certainly trimmed a few off an otherwise bulging "black list".

There are some old standby's which seem to succeed with amazing regularity when dealing with a recalcitrant SWBcr: sending commemorative stamps, colorful postcards, snapshots of the (TA-DA) DXer, small magazines, etc. Even if there be no stamp or p/p/cd collectors at the station, such lil' gifties both make a good impression thru a show of friendship, and also, it must be admitted, subjects the station to subtle psychological coercion to reply.

If it is not a communications gap lying behind a non-verie policy (which lang. rpt. forms can alleviate), and it is not merely apathy, then two possibilities remain: ignorance of the hobby, or enmity.

If the answer lie in the former, then the course of action is clear. Al Sizer's experience with Radio Bangladesh is a case in point: after Al had explained to Mr. Habibullah just what it was that we crazy DXers were after, Dacca quickly became one of the most regular verifiers in Asia.

If, however, the distinct absence of QSLs springs from ill-will (be the underlying motives political, bureaucratic, or personal), then it is this which the DXer must attempt to assuage -- and it seems that the DXer with QSL-fever is invariably a man with a scheme. And although there is no substitute for sending a good report, and, sometimes more importantly, being in the right-place-at-the-right-time, the most dramatic QSL coups have been pulled off in this area as the direct result of

of some dedicated DXer's diligence, ingenuity, and homework. The unusual tactics springing here are always of the genre which arouse in other DXers the reaction of "...now why didn't I think of that...?" Some of the more recent ones, for example:

---the use of a 3rd party intermediary (a mother station; network front office; commercial firms like TIE; embassies per the Jerry Berg BES coup, etc...)

---the use of a more palatable

mailing address. For example, many Russian regional stations will verify direct to European DXers, but not to NA. This may change. However, supposing you'd heard one and wished it verified (but suspect your NA QTH would, for political reasons or whatever, would result in a big red Zero), you might see if your European DX-club would be willing to act as your QSL Bureau. You merely send your report, legitimate in every way, in care of you club in, say, Finland. Although I have not utilized this approach, I am told that it will work, and whether or not you consider it ethical or not is your personal decision. It IS DONE, however. I, myself, am still undecided..

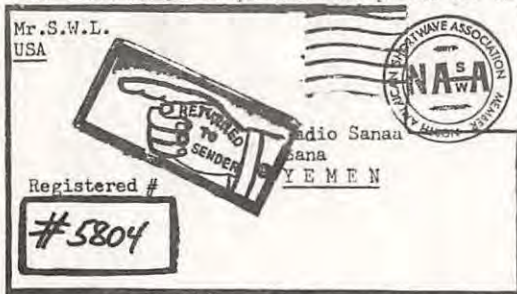
---the all time prize ploy, in my opinion, was involved in the "Gerry Dexter vs. Radio Sahara Caper". The approach? Simply send a few gratis USA pop/folk discs: records to a radio station---what a natural!! And considering the great demand for recent American pops around the world, and considering the time-lag often involved for a station to secure such tunes, the sending of current mx while it's still current seems to be hard to beat...

---you might even go to the station itself, as GAC has done of late down south of the border (course, this might turn out to be even more expensive than taped registered rpts, hil).....In short, the non-verifiers CAN be verified. If some men can climb Everest just to freeze their beards, and others can jump Niagra in barrels... But a short note, tho: there's no truth behind the rumor that Chris Lobdell engineered what has been called "...the biggest plot to get a veri out of Zanzibar in years". Infor-mants tell me that he has not left the States in the last 90 days. --30--

GUINEA, GUINEA, QUITE CONTRARY:  
HOW DO YOU QSL ????

(...a look at verifying the non-verifiers....)

--by Ralphus



RADIO PAKISTAN EXPANSION

ISLAMABAD -- A three-year crash program from the development of broadcasting has been proposed at a conference of senior engineers. Its purpose is to provide the entire country with radio coverage by 1975.

Costing over Rs. 11.3 crores, till 1975, the programme includes extension of MW coverage all over Pakistan, provision of broadcast channel II at all major stations and introduction of a third channel on FM transmitters which is meant for sophisticated listeners.

The conference inaugurated by the Information Minister on Thursday discussed the 5-year programme incorporating both ongoing and new projects.

EXTERNAL: Besides the extension of external services, which would shift entirely to Islamabad from Karachi, the conference also discussed how the engineers could assist in designing material from developing radio and electronic equipment to conserve foreign exchange.

The various projects likely to be completed by 1975 are: two additional 250 kW shortwave transmitters, two 100 kW shortwave transmitters, one 1000 Kw MW transmitter all at High Powered Transmitter Station Islamabad, beside construction of Broadcasting Houses at Islamabad, Peshawar, and Multan and installation of one 150 kW MW transmitter at Quetta....

100% COVER: It is expected that by 1975, the total MW coverage will extend to 90% of the population, and internal shortwave coverage would be 100%...The conference of senior radio engineers was held after about 6 years. Now the radio engineers will be meeting more frequently -- once or twice a year to review the progress of the program.

...from Pakistan Affairs, via NASWAer Richard Anderson, IL.

HIC-NORWAY:

The Hard way!!! -- Tromsø

Along with a QSL from NRK, the following information was received by your editor: "...regarding our Tromsø SW xmt, we take pleasure in informing you that it operates on 7240 kHz with a power of 10kW. The transmitter carries the Norwegian Home Service Program, and is beamed westwards. It is mainly intended for Norwegian fishermen off the coasts of Greenland and Iceland. We regret we have no pix of the station at the present time..." NASWAer Don Jenson speculates that "...this may be the northernmost DX in the world!" Who knows?? But you don't have to be a Norwegian fisherman to try, hi.

CLOSING REMARKS:

...well, looks like I've got a little space to gab. Had a super-time at a recent eyeball-QSO with NASWA's Flashsheet Editor, Al Niblack. Also along was my neighboring DXer Keith Russel. I've been in the market for a new (used!) rx, and after Al's persuasion, I've just purchased a vintage "all-time" rx, the Hallcrafters SX100. We'll see more about that in next month's LogReport, hi. Upcoming in the SWC is a special article for NASWA members: ever wish you could get paid to DX -- be a "professional" DXer? Well, NASWA will talk to just such a man when next month we interview the head of the BEGMS... 73's. Amigos, please! Send those contributions in to SWC!!!

CLANDESTINE-PIRATE:

World Music Radio...

WMR is a clandestine station operating from the Netherlands. The station started broadcasts on MW 186 meters about 10 years ago. The frequency was changed to 7050 kHz, and later to 6025, and again, to 6040 kHz...World Music Radio was operating under the name of Radio Euroweekend. In April of 1969, Radio Euroweekend closed down and WMR started some 4 months later. In December of 1971, WMR started to use 6067 kHz...Their program schedule is as follows: (GMT)

0900: "To the World, With Mx!" (non-stop)  
1000: "The John O'Mill Show"  
1100: "The Favorite 10 of WMR"  
1130: "To the World of Mx"  
1200: "45 Toeren op 49 meter" with Andre  
1230: "Studio 2" with Theo

This schedule is broadcast now every Sunday on 6225 kHz from 0900-1300 GMT. A DX-pgm called "The DX-World of WMR" is broadcast on the 1st Sunday of the month. Incidentally, the station has, in the past, verified....And according to the QSL, WMR operates with a power of 0.015 kW.

---information from A.E. Martin, UK



# QSL Report

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

Deadline: 12th-USE AIRMAIL

## NEW VIETNAMESE REPORT FORM

A Vietnamese language reception report form has recently been written by NASWA member Dan Jamison of Virginia. The report form is modelled after other NASWA language report forms, is in letter form, and is copied out and sent as a personal letter to the station concerned. Much work and translation has gone into the production of this DXing aid, and is designed for both those who send a tape recording and those who do not. For further details, and your copy, write Dan at 700 McIntire Road, Charlottesville, VA 22901, and please enclose a double-stamped SASE.

The other report forms, Spanish, French, Portuguese and Indonesian, are currently available from your QSL editor for one IRC each, plus 1 IRC for each two forms ordered if an airmail reply is requested, and a SAE.

## QSLs RECEIVED

We feature QSLs this month from some 60 faithful reporters, including many rare and interesting verifications. Although all QSLs reported here represent much time and effort/skill on the part of NASWA's DXers, your editor would also draw your particular attention to those which are new, different or particularly rare, and which are arrowed thus (➤).

ALGERIA: RTV Algérienne, 9510, French-Arabic card with full data in 2½ months sea, w/sked and rpt form. Reported in English w/2 IRCs. (Duba) "Camels in Desert" card after 50 weeks and 6 months after postmark! Full verie for 3 IRCs on this first rpt. (Schnur)

ANGOLA: Em. Oficial de Angola, 11875, card in 5 weeks airmail for 1 IRC. Complete verification data including power. (Jamison)

ARMENIAN S.S.R. Radio Moscow relay, Erevan, 17700, card for the African service, with site indicated, in 2 months. (Brambley)

AUSTRALIA: Radio Australia, 15320, beautiful post card w/full data in 21 days, and specifying Shepparton site. Air for 3 IRCs (Webb) large color card for Shepparton/21740, w/rpt forms, sked, in 7½ weeks. (Jeffrey) 5995, card in 9 weeks plus paper pennant. (L. Marshall)

A.B.C./Perth, 15425, card showing map of Western Australia, in 14 days w/full data; air for 2 IRCs. (Lobdell) 9610, card in 10 days air for 2 IRCs (DuShane)

VNG Time Signal, 12000, folder card in 11 days returning my IRC (Wicks).

7500, color folder w/complete verification in 71 days air, w/out IRCs.

AUSTRIA: ORF, Vienna, 9770, "Rest and Recreation in E. Austria" card in 2 months for 2 IRCs. (J. Kolb) "Vorarlberg" card by air in 2 months. No IRCs sent (Lobdell) 6155, 42 days for 2 IRCs. (Pacheco)

Schulungssender des Osterreichischen Bundesherres, OYE21, 6255, card, letter and station lapel pin in 6 months air. Full data except time. (Shaw) 18 weeks, 2 days, seasmil. No IRCs sent. (Jamison)

BANGLADESH: Radio Bangladesh, 15519, plain card w/all details, signed by M. Habibullah Installation Engineer; 12 days air for 3 IRCs. (Churchill) 17910, card verifying 1st day of reception on this frequency; air in 1 month. Fgy now adjusted to 17935 (Lobdell) letter and separate card in 13 days air (Michalenka) 15520, card & sked in 15 days air (Field) 4 weeks air (Shaw) 26 days registered air from Dacca w/sked. (Jamison)

BELGIUM: ORU 9550, card, transcript and sked in 20 days. Same card they have been using for at least 13 years when last verified. (Squires)

BOUGAINVILLE: VL9BA, Radio Bougainville, letter from Keith Jackson confirming 1968 reception, stating this would be first verie from anywhere in the world from VL9BA. 14 days by air after long delayed f/up and 2 IRCs. First verie formerly was 18 March 1968, mine is 17 March. (Churchill) Anyone in NASWA been dethroned? (Ed.)

➤ BRAZIL: A Voz do São Francisco, 5027, 2 letters (1 carbon of one sent earlier, but not received), 3 postcards and pennant in 3 weeks, airmail after follow-up. Signer is unreadable. (Dexter)

Radio Clube de Ribeirão Preto, 15415, letter in Portuguese and decal in 1 month seammal, containing date and veri statement only. V/C: Ticiano Mazzetto. Rpted in Portuguese with 2 IRCs. (Duba)

Radio Globo, 11805, card in English/Portuguese with many scenes, for English rpt w/mint stamps. All details in English on QSL. (Henderson)

Radio Guarani, 6175, white card w/drawing of mike and globe, w/personal "thank you" note in English and Portuguese on reverse of QSL. 5 months, 16 days for mint stamps. (Schnur)

Radio Nacional de Brasilia, 11720, letter in English from V/S: Luthero Toledo for taped report and Portuguese letter, w/mint stamps. (Marks)

BULGARIA: Radio Sofia, 6070/9700, card w/"View of Melnik" shown, by air in 1 month as last in series of 6 which begins with the "Sofia University" card. (Lobdell)

CANADA: CHNX, Halifax, 6130, plain card in 2 weeks for U.S. \$.10. (Orcutt)

CFRX, Toronto, 6070, Toronto skyline card in 8 days showing old and new City Halls. (Wicks)

CJCX, Sydney, N.S., 6010, white card w/green drawings saying report "was excellent". No verie data; 3 IRCs sent. 9 days. (Schnur)

CHU, Ottawa Time Signal, 7335, card and information sheet in 8 days. (Wicks)

### The Canadian Broadcasting Corporation

is pleased to verify your reception

on March 19 19 72

of its transmissions from

Station CKZN

Frequency 6160 kHz

Power 300 W

This station is on the

CBC Newfoundland Network

Per F. Holm

Date 27 March 1972



Mr. S. Kemp,  
6149 Monteverde,  
San Jose,  
California 95120,  
U.S.A.

CKZN, ST. JOHN'S, NFLD. - A RARE CATCH IN WEST COAST NORTH AMERICA

Deutsche Welle, Sackville relay, 9625/11865, 6-color semi-circle card w/full data in 1 month air, stating site. Tape recording sent. V/S: S. Mele. (Lobdell)

CANAL ZONE: NBA Naval Time Signal, 17697, mimeographed verie letter with all data filled in in 2 weeks. (Perry) 19 days air from V/S: Frank R. Knutson, RMC USN; air for no IRCs (Jamison) R. Glen Hall returned prepared card from Washington with interesting booklet on the Naval Observatory. (L. Marshall) 11080, letter in 67 days from Balbao (Henderson) 9 months with apology for delay (Field)

CANARY ISLANDS: RNE, 15365, Noblejas control room card direct from Tenerife in 36 days for 2 IRCs. 11800, 1 month air from Madrid (Brambley) 11800, card in 7 months air for 1 IRC. (Field) 45 days (Webb) 30 days after f/up (L. Marshall) 1 month direct (Conner)

CENTRAL AFRICAN REPUBLIC: Bangui, form letter with date and time and note that QSL cards are being printed. 23 days air for mint stamps and NASWA French report form. (Churchill) letter in 6 weeks airmail for 5035 kHz. (Field) 2 months air for French report and 3 IRCs (Duba)

CHAD: Radiodiffusion Nationale Tchadienne, Ft.-Lamy, 4904.5, long white card w/3 black/white photos, for registered French report w/4 IRCs. 51 days seammil w/stamps of nude Chad girls. (Schnur)

✓ CHILE: Radio Universidad de Concepcion, 6135, card and small pennant in 5 weeks airmail. (Dexter)

→ CHINA (PEOPLE'S REPUBLIC OF): Radio Peking, 15060, QSL letter and sked in 36 days w/postcards, large magazine and newsletters later. (Austin) 9780/15060/15095, 2 cards of Tien An Men Square and Ballet, with all data on the reverse and personal letter which verifies my reports; 39 days air; no return postage. (Seymour)

CLANDESTINE: Radio España Independiente, 12140, card seammil in 79 days for 2 IRCs and an English report mailed to Prague, but answered from Paris. (Henderson)

CONGO (REP): O.R.T.F./Brazzaville, 15190, card in French/English w/full details for taped report of English "Paris Internationale" programme in 22 days. (Marks) 67 days w/card, sked for 3 IRCs (Webb) 6 weeks for 2 IRCs (Conner) Out of order, sorry (Ed.)

✓ COLOMBIA: Radio Mira, 6015, letter, decals and 2 pennants by registered airmail in 10 days after f/up. V/S: Luis G. Romero M., Director Artístico. (Dexter)

Radio Nacional, 4955, airport card w/frequency and date only in 4 months air for 1 IRC. V/S: Andres Pardo Tovar. (Plum) 6030, pic QSL card in 7 weeks after f/up in Spanish w/mint stamps. Total time was 6 months. (L. Marshall)

Radio Super, 6065, letter and white felt pennant in 5 months from V/S: Gustavo Rivera Mendez, Departamento Tecnico (Sparks) letter and pennant in 4½ months (Jamison) letter in Spanish for English report, air from Gustavo Rivera Mendez. 6½ months for unused SASE (Field)

Radio Sutatenza, 5095, folder card w/all data except time; 70 days seammil. Rptd in English w/2 IRCs; 2nd try. (Duba)

✓ COSTA RICA: Radio Casino, 5954, long green card and pennant in 6 weeks for aerogram report. No IRCs. -Behr)

CUBA: RHC, 17705, nice multi-colored card w/full data and mimeo letter after 1½ years! Via air; no IRCs sent (Hogarth) 11760, card from V/S: Maria Montero Triana; 19 weeks. (Kelleher) 9680, 4 months airmail for 2 IRCs (N. Kolb) 6060, card, by air, after 413 days (Hardester) 15 weeks for 9525; colorful card. (L. Marshall)

CYPRUS: BBC EMR, 15420, Thames card in 28 days with xmtr site typed-in. 2 IRCs brought it airmail. (Webb)

✓ CZECHOSLOVAKIA: Radio Prague, 5930, card of Hradcany castle in 54 days seammil; all details and signed. (Sellers) 9540, card in 1 month, 10 days, w/sked and monitor club info the following day. (Wicks) 7345, card and pennant in 5 weeks (L. Marshall) 5930, skyline card w/complete data in 43 days. No IRCs. (Kelleher)

DOMINICAN REPUBLIC: Radio HIN, 4912, flag-map card and long Spanish letter in 7 weeks for Spanish report and mint stamps. V/S: Hector Quesada N. (Behr)



LA VOZ DE LAS  
FUERZAS ARMADAS -  
ANOTHER WELL-HEARD  
DOMINICAN STATION.  
4825 kHz.

# SUPER RADIO

Bogotá, Abril 29/72.

Señor.  
DANNY JAMISON.  
KENTUCKY.

Estimado señor:

Acusamos recibo de su amable carta en la que nos hace un reporte técnico de nuestra sintonía en esta localidad, el que le agradecemos de manera especial.

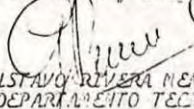
Aprovechamos la oportunidad para manifestarle que somos cabeza de la cadena SUPER RADIO de Colombia, con estaciones e importantes ciudades del país, así:

Ecos del Caribe.....	Ibagué.
La Voz del Centro.....	Esmeral.
La Voz del Llano.....	Villavicencio.
Radio Splendid.....	Armero.
Radio Andina.....	Bucaramanga.
Ondas del Huila.....	Neivá.
Radio Mira.....	Tunaco.
Emisoras Unidas.....	Barranquilla.

Igualmente le comunicamos que desde el 20 de Marzo estamos radiando el programa "RONCALLI COLOMBIANA", dedicado a todos nuestros oyentes en el exterior, entre las 00.30 Gm. a 01.00 Gm. Mucho le agradeceremos sus comentarios sobre este espacio.

Sin particulares para más, nos place suscribirnos,

Servidores y amigos.

  
GUSTAVO RIVERA MENÉNDEZ,  
DEPARTAMENTO TÉCNICO

BOGOTÁ, D. E.

Calle 14, No. 1255 4a. Piso  
Apartado Aéreo 23316  
Teléfonos: 812748  
814067  
435127

ECUADOR: HCJB, 11745, card in 4 weeks air for 2 IRCs. (Sellers) "Waved Albatross" card, N° 2 in series w/full data, in 20 days air for 2 IRCs. (Lobdell) 15115, Galapagos card in 3 weeks w/religious lit. V/S: Roger Stubbe, Dir. (Field)

Radio Paz y Bien, 4820, letter, p/card and pennant from V/S: Rudo Jorge Enrique S., Airmail in 18 days. (Dexter)

EGYPTIAN ARAB REPUBLIC: Cairo, 9475, plain white card in 7 weeks (L. Marshall) 3 mos, no return postage (Orcutt) 9475, b/w reproduction card w/full data in 1 month, 19 days (Wicks) card/skred air in 60 days (Hunt)

EL SALVADOR: Radio Nacional, YSS, card, pennant and tourist info in 7 weeks for Span. rpt and mint stamps (Conner)

ENGLAND: BBC, Thames card in 79 days. (Hunt)

ETHIOPIA: ETLF, 9730, blue full data card by air after 392 days w/f-up, mint stamps w/f-up, and IRCs with original report. (Hardester) 5 weeks for mint stamps and English rpt for 11795 kHz. (L. Marshall)

FINLAND: Helsinki, 21605, card in 1 month air for rpt in English w/mint stamps.

(Lobdell) 9585, headphones/map card in 3 weeks for no return postage (L. Marshall) 15185, card in 13 days air for 2 IRCs (Flum)

FRANCE: Paris, ORTF card in 2½ months for 2 IRCs and report in English. (Lobdell) 6 wks for no return postage report on 15120. (L. Marshall)

GABON: Libreville, 4777, brown-yellow African map card w/all data in 40 days airmail. Card also contains skred. Reported in French w/ 3 IRCs. Now seem willing to answer DX reports, especially for 4777 kHz. (Duba)

GAMBIA: Radio Gambia, 4820 kHz, mimeo letter and skred in 45 days air. Full data incl. xmt location. (Jamison)

GERMAN DEMOCRATIC REPUBLIC: RFI, Berlin, 11890, blue/orange card in 44 days airmail for 2 IRCs. (Facheco) air in 50 days (Hunt) 6165, card reproduction of bust of Goethe; 4½ weeks; no IRCs. (J. Kolb)

Südfunk-QSL-Karte	15. April 1971
Wir freuen uns über Ihren Empfangsbericht	
von Sender Mühleckner 6030 kHz	
am	13.2.1971 5.37 GMT
gefreut, danken Ihnen bestens und wünschen weiterhin guten Empfang von unser Programmen.	
Ihre Süddeutscher Hörfunk	
Ausschli. des öffentlichen Rechts	
D 7630 Stuttgart 1, Postfach 637	
Technische Division	
Der Südfunk sendet	
auf Mittelwelle 575 kHz, 300 kW	
außer auf 603, 1105, 1412 und 1624 kHz	
auf Kurzwelle 49 m-Brand 6030 kHz, 20 kW und auf UKW	
Der Südfunk	
strahlt drei Hörfunk-Programme aus	
montags 5.58-0.15 Uhr	
montags bis freitags 4.58-0.15 Uhr samstags 4.66-2.00 Uhr	

GERMAN FEDERAL REPUBLIC: Deutsche Welle, 11805 w/card for Wertachtal site in 24 days (Webb) 15150, Olympic runner card in 3 wks (Behr) 11865, 1 month (Seymour) 10 weeks air (Jeffrey) 9545, 18 days (Lobdell) 11865, 2 weeks (Dexter) 6040/6075, card in 3 wks (L. Marshall)

← Süddeutscher RfK, 6030 card from Stuttgart, w/letter expressing some surprise as quality of signal in US. 12 weeks seammil, for 3 IRCs and a report in English. (Henderson)

GHANA: Accra, 11850, red/yellow/green card, for registered report in 4 wks air. (N. Kolb)

GREECE: NHBI, Athens, 15345, white card in 3 weeks, stating power of 7.5 kW, for 1 IRC. (Behr) plain card, with full data in 21 days for 2 IRCs. (Seymour)

GREENLAND: Grønlands Radio, Godthåb, 9575, folder card in 11 weeks for 2 IRCs. (Behr)

GUAM: 17530, Naval Time Station, blue card in 10 days, noting power as 40 kW. No return postage sent. (Perry)

GUATEMALA: Radio Chortis, TGCH, confirmation letter in Spanish signed by Prof. Raul Amiloar Casasola P., Director. 74 days air for registered NASWA Spanish report w/Mint Stamps. (Churchill)

Radio Cultural, TGNA, 9505, Quetzal card by air in 2 months from V/S: David Keeler, w/letter, skred and tourist booklet (Hogarth) 14 days air (Hunt)

Radio Maya, TGRA, nice personal letter on TGRA letterhead, in 6 weeks from V/S: Loran W. Veith, air for 2 IRCs. (Jamison)

La Voz de Guatemala, 6180, blue/white flag card in 3 weeks. (Behr)

La Voz de Nahuala, 3360, flame-over-mountain card in 3 weeks. (Behr)

HAWAII: WVVH, 100000, brown card w/drawing of native and outline map of Kauai in 15 days w/full data from V/S: C. L. Trembath, E-I-C. (Schnur) 8 days air (DuShane) 13 days for no return postage (Orcutt)

HONDURAS: La Voz Evangelica, HRVC, 4820, card in 21 days for 1 IRC. (Austin)

Radio Progreso, HRPL3, 4920, friendly form letter in Spanish w/date and time, but no definite verie stant. 6 weeks air for mint stamps and tape. (Lobdell) letter and very nice pennant in 20 days air for 2 IRCs. (DuShane)

Radio Suyapa, 6125, full data card, friendly personal letter and 34th Anniv. pennant from V/S: Francisco Ellortegui I., Gerente, in 15 days airmail for Spanish report and 4 IRCs. (Calkin)

La Voz de Honduras, HRN, 5875, form letter in Spanish giving date and freq. in 17 days air from V/S: Carlos E. Riedel, Director of programmes of Emisoras Unidas, S. de R.L., which owns HRN among other stations. Rpted in Spanish w/4 IRCs. (Calkin)

INDIA: AIR/11810, full data card air in 3 months for 1 IRC. Card shows view of Fahal-gam, 97 km from Srinagar. (Hogarth)

INDONESIA: RRI Ambon, 7140, verified in 45 days w/full letter and RRI card for reg. English report and 4 IRCs. (Perry)

RRI Kupang, Indonesian Timor, 3385, Indonesian letter with date and freq. from Mien A. J. Sereh, Kepala Bagian Siaran, RRI Studio Kupang. 70 days by air for Indonesian report, mint stamps and 1 IRC. Address in WRTVH is correct. (Churchill)

INTERNATIONAL WATERS: RRI, 6205, Mebo II card w/no data in 2 months from Switzerland, although rpt sent to Hilversum address. 2 IRCs. (Conner)

IRAN: Radio Teheran, 12176, plain white card from National Iranian Radio and TV for Home Service. Full data from Chief of Foreign Programs. Rpted in English w/2 IRCs via registered mail for 2nd f/up. 5 months by registered airmail. (Kusalik)

IRAQ: Baghdad, 9745, multi-colored card w/map of Iraq, flag and pic of bridge on front, date/time and freq. on reverse. 128 days seammal after f/up and 2nd rpt (Watman) large empty envelope in 2 1/2 months for 2 IRCs for 9745. Frustrating! (Hogarth) 3 months after f/up and 15 months from original. Air for no IRCs in f/up, but 5 IRCs sent in previous reports. (Sellers)

ISRAEL: IBA, 9625, card with all details by air in 8 months. (Ronda) card in 7 weeks seammal for 3 IRCs. (Orcutt) 33 days for 2 IRCs (Nikolich)

ITALY: RAI/Roma, 9575, card of aeriels in 2 months (M. Marshall) 3 months (L. Marshall) 65 days air (Hunt) 6010, 2 cards in 59 days for 2 IRCs; seammal. (Pacheco) 70 days seammal for 2 IRCs (DuShane)

IVOXY COAST: Abidjan, 11920, program sked and typed "thank-you" note on reverse of a p/card I had sent them, but no QSL! This is 6th time I have written and the first "response". (Schnur)

JAPAN: NHK, Tokyo, colorful world map card, w/all data but time, in 14 days air. No IRCs. (Lobdell) 9505, "Running Water and Maple Leaves" card, 18 days (Lobdell) "Images of Modern Tokyo" card for 21640 in 20 days air. (Lobdell) 17825, card w/sked in 3 wks air (N. Kolb) 2 weeks for no IRCs. (J. Kolb)

KUWAIT: Radio Kuwait, 15345, folder card w/flag of Kuwait on one side, and map of the surrounding area on the reverse, plus paper pennant and sked. V/S: Jawad Al-Mazeedi, 44 days air for 2 IRCs. (DuShane) 2 1/2 months for 2 IRCs (Marks) 1 month air for 2 IRCs (Pacheco) 2 months air for 2 IRCs (Lobdell) 60 days air for 3 IRCs (Webb) 60 days air for 3 IRCs (Hancheruk) 40 days (Austin) 6 weeks air (N. Kolb)

LIBERIA: ELWA, Monrovia, 11950, native drummer card and info sheet in 22 days for 2 IRCs. (Wicks) 11940, card in 10 weeks w/sked. (Jamison)

VOA, Monrovia, 21660, 30 year anniversary card in 11 days from V/S: Rosemary Bailey. Date, frequency and site given. (Jamison) 7195, card in 2 weeks. (Jeffrey)

LIBYA: Tripoli, 8630, form letter/sked from V/S: Nouri El Sharif, C.E., in 23 days w/4 IRCs from Box 119, El Beida. (Michalenska) 10 months air for \$1. (Shaw) 8 months, 6 days air; all data - an excellent QSL! (Jamison)

LUXEMBOURG: Radio Luxembourg, 6090, card in 4 months seammal for 1 IRC. (Brambley)

MADAGASCAR: Radio Nederland relay, 15260, card via Hilversum in 32 days airmail. No IRCs sent. (L. Marshall) white map card in 2 weeks. No IRCs. (Behr) 21 days for card for 1 IRC sent. (Kusalik)

MALAYSIA: Voice of Malaysia, 11900, flag card w/freq. indicated in 262 days air after f/up and more IRCs. (Hardester)

MALI: Radio Mali, Bamako, 5995, OCORA card w/full data and sked typed on card for NASWA French language report form w/2 IRCs and sent via registered mail. 3½ months total time. Also personal note in French from the Director of Broadcasting. (Kusalik)

MEXICO: Radio México, XERMX, 17855, paper thin onion skin card w/full data in 4 months air, together with form letter, questionnaire and pennant. V/S: Victoria E. Perez de Leon. (Lobdell) 99 days air for 3 IRCs (Henderson) 6 months by registered air (Jamison) 3½ months registered air (Plum) 11770, onion skin "card" for NASWA Spanish language report w/1 IRC. 11 weeks total. (Kusalik)

Radio Nucleo Oro, XEUW, 6020, postal card QSL, and pennant by air in 5 months. SASE sent, but not used. (Field) This station is also known as El Eco de Sotavento, but Radio Nucleo Oro is more common in Idents. (Ed.)

Radiodifusoras de Sonora, XEBR, 11820 kHz, sent nice personal letter from Luis Hoëffer Obregon, Gerente, after a f/up in English w/mint stamps. Total time was 13 weeks (L. Marshall) 18 days surface mail for 1 IRC (Jamison) QSL letter on beautiful XEBR/XEBR stationary with Mickey Mouse type mouse w/western hat holding mike. 2 IRCs sent. (Clawson) Members should note that this station no longer calls itself "El Heraldo de Sonora", and DXers who wish QSLs should not give the station the impression they are simply copying details out of the Handbook by addressing letters in this manner. Official name is above, and station calls itself "Radio RH" (after the BCB outlet) or "la pantera del aire". (Ed.)



Radio Universidad de Sonora, XEUDS, 6115, card in English/Spanish received in 3 weeks for 1 IRC and a report in Spanish. (L. Marshall) QSL shown above. (Ed.)

MONACO: Trans-World Radio, 7290, antenna card, by air in 37 days for 2 IRCs. (DuShane) 2 months airmail for 3 IRCs (L. Marshall)

MOROCCO: VOA, Tangier, 11915, Anniversary card in 4 weeks, date and site only given, from V/S: W. E. Dulin. (Sellers) 7270, card in 2 weeks (Jeffrey)

NETHERLANDS: Radio Nederland, 9715, Madagascar card in 21 days air for Lopik. No IRCs. (Wicks) 11730, 11 days air. (Jamison) 25th Anniversary card in 11 days air. No IRCs. (Lobdell)

NETHERLANDS ANTILLES: Radio Nederland, Bonaire, 11730, card in 1 week, air (Jamison).

# ສາທາງຮູບເຫຼາງຂາວ ຂອງ ແນວລາວຮັກຊາດ ປະຈຳ ຫ່າໄພ່ຍ

BUREAU D'INFORMATION DU FRONT PATRIOTIQUE LAO A HANOI

40, rue Quang-Trung, Tél: 2588

Le 21 Février 1972

Cher M. William A. Matthews

Nous avons l'honneur d'accuser réception de votre lettre en date du 14-2-71, concernant l'écoute de notre station "La Voix du Pathet Lao".

Nous vous remercions sincèrement de votre délicate attention, et vous serions très reconnaissant de recevoir encore dans l'avenir d'autres rapports d'écoutes de votre part qui nous seront incontestablement très utiles.

Voici, le programme de la "Voix du Pathet Lao"

Horaires (Heure Lao)	Horaires (GMT)	Langage	Fréquences
0530 - 0600	0130 - 0200	Lao	(1530-1540-1550 kHz)
0600 - 0615	0200 - 0215	Français	(1530-1540-1550 kHz)
0615 - 0630	0215 - 0230	Vietnamien	(1530-1540-1550 kHz)
0630 - 0930	0230 - 0530	Journal dic- té en Lao	(1530-1540-1550 kHz)
1000 - 1245	0600 - 0845	Lao	(1530-1540-1550 kHz)
1245 - 1300	0845 - 0900	Français	(1530-1540-1550 kHz)
1300 - 1700	0900 - 1300	Journal dic- té en Lao	(1530-1540-1550 kHz)
1700 - 1845	1000 - 1145	Lao	(1530-1540-1550 kHz)
1845 - 1900	1145 - 1200	Vietnamien	(1530-1540-1550 kHz)
1900 - 2030	1200 - 1330	Lao	(1530-1540-1550 kHz)
2030 - 2200	1330 - 1500	Lao	(1530-1540-1550 kHz)
2200 - 2245	1500 - 1545	Français	(1530-1540-1550 kHz)
2245 - 2300	1545 - 1600	Lao	(1530-1540-1550 kHz)

Cordialement,

Directeur adjoint en charge de l'information du F.P.L.

(Editor's Note: A rare QSL from the Pathet Lao Clandestine is shown to us by DXer Bill Matthews of Columbus, Ohio.)

*William A. Matthews*  
Bill Matthews

NETHERLANDS ANTILLES (cont'd): Trans-World Radio, 15345, card in 2½ weeks for 2 IRCs (L. Marshall)

NEW ZEALAND: Radio New Zealand, orange and blue globe card, seamaill in 3 months for 2 IRCs. (Hunt) 11780, card and travel folder in 7 weeks for 2 IRCs. (Jeffrey)

NICARAGUA: Radiodifusora Nacional, Managua, 11875, blue/white pennant and personal Spanish letter from V/S: Douglas Amaya, Director Artistico, in 29 days air for my \$1 bill and registered report w/postcards of New York. (Schnur)

NIGERIA: Voice of Nigeria, 7275, flag card in 2 months airmail for no return postage. (Orcutt) 7255, green card in 6 weeks. No return postage. (L. Marshall)

NORWAY: Radio Norway, Oslo, 15175/17795/17800, 3 full data post card veries, in 14 days by air. No IRCs sent. (Lobdell) 9645, QSL, pgm sked and several booklets in 39 days (Austin) card and sked in 23 days air fc. 1 IRC (Hunt)

Radio Norway, Tromsø site, 7240, card and note on program sked specifying site from V/S: Torstein Tølgard. Airmail in 1 month. (Dexter)

PAFUA: VLT4, 4890, full data QSL on attractive blue and yellow ABC card, 34 days air for 2 IRCs. (DuShane)

Radio Kerema, VLBBK, 3245, F/NG folder from V/S: P.C. Pennington, Station Mgr. 70 days seamaill for 2 IRCs. (Churchill)

PERU: Radio del Pacifico, 9675, map card, letter and pennant in 3 weeks for mint stamps. V/S: Nicanor Arcevalo C., Encargado del Dpto. Técnico. (Behr) 3 weeks on 2nd try/air, also for 9675 (Field)

Radio Atlantida, 4840, Spanish letter, pennant and Peruvian stamps in 5 weeks for Spanish report w/mint stamps. (Behr)

PHILIPPINES: F.E.B.C., Manila, 11920, green card of a boy on oxen; full verie in 69 days air for 3 IRCs. (Hancheruk)

V.O.A., Poro/Tinang, antenna card for 11775 in 15 days from Washington. (Brambley)

POLAND: Radio Warsaw, 6135, 1st in series of 7 map cards in 8 weeks air. No IRCs sent or necessary according to reply. (Webb) 15 weeks airmail; no IRCs. (Starr) 11815, card in English w/sked and info on new contest. 36 days. (Austin)

PORTUGAL: Radio Portugal, 11935, card w/full verification data and listeners magazine in 10 days airmail. No IRCs sent (Wicks)

IERA Radio, 9670, card and paper pennant in 12 weeks from Sweden fer 1 IRC. (Behr)

QATAR: Qatar Broadcasting Service, 9570, confirmed by letter in 3 weeks from V/S: Mahmoud Shahid, Deputy Director Information/Broadcasting. (Matthews)

ROMANIA: Radio Bucharest, card of Romanian folk dance w/sked in 15 weeks air. (N.Kolb) 15 weeks air for 11940 (N. Kolb)

R.S.F.S.R. Radio Moscow program, 7250, card, report forms, sked, received in 17 days. (Austin) 7300, card, book and several p/cards in 20 days (Austin) 7310, orange card w/booklet on public education in the USSR (M. Marshall) 9800, card in 10 days (Calkin)

Radio Moscow, Armavir, 9800, card in 5 weeks air indicating site (Flum) air in 54 days (M. Marshall)

Radio Moscow, Tula; 9610, card in 1 month, with all details & site (Sellers) air in 53 days from V/S: N. Veselchakova. (M. Marshall)

Radio Moscow, Kursk, 21540, card in 2 months w/sked (Brambley)

Radio Peace and Progress, 9470, card in 3 months seamaill. No IRCs (L. Marshall) 15350, card in 3 weeks air. No IRCs (Clawson) 15350, card for taped report w/ 1 IRC (Marks)

RWANDA: Deutsche Welle, Kigali relay, blue map card in 6 weeks from Köln. No IRCs. (L. Marshall) map card of Africa, air in 4 weeks w/prog. guide (Padula) 15380, card w/all data in 5 weeks for 1 IRC (Conner) 53 days air; no IRCs (Campbell) 7225, card w/sked and publication in 8 weeks air. 2 IRCs sent (Linsenmeyer)

RYUKYU IS: VOA, Okinawa, 7165 kHz, card from Washington in 7 days (L. Marshall)

➤ SABAH: Radio Malaysia Sabah, Kota Kinabalu, 7180, beautiful card w/outline of Borneo

SABAH (cont'd): in 2½ weeks for English report w/3 IRCs. (Perry) 7180, map card, full data w/personal letter from V/S: Henry Kinujim, Director of Broadcasting, in 1 month air for 3 IRCs. Incorrect freq. listed on card as 4970 (Calkin) card and letter airmail in 1 month for 7180 kHz. (Dexter)

SAUDI ARABIA: Riyadh, 15150, crossed swords card, by registered mail in 5½ weeks. 2 IRCs sent. (J. Kolb)

SENEGAL: Radio Sénégal, stringed instrument card w/date and time and no signer. 56 days seamail for mint stamps and NASWA French report. (Churchill)

SEYCHELLES: FRBA, 11950, card w/full verification in 28 days for 3 IRCs. (Ronda) 20 days air for 2 IRCs. Sked also received from station. (Lobdell) 2 months for 11950, from V/S: Brenda Bacon. 2 IRCs sent (Jamison) 4½ months (L. Marshall) 4 weeks for 3 IRCs (L. Marshall) 4 months seamail for 2 IRCs (Hogarth)

SIICLY: Caltanisetta, RAI HS programme on 6060 kHz verified with RAI card verifying HS. 2 IRCs, tape and English report sent. Reply in 68 days seamail. (Coleman)

SIERRA LEONE: Radio Sierra Leone, 3316, aerogram with all details from R.H.A. Gilpin, acting Chief Engineer. Aerogram has state seal on letterhead similar to Uganda. 86 days air for 2 IRCs. (Churchill)

SOUTH AFRICA: B.A.B.C., 3997, color card depicting industries and life in SA, w/sked. 3 weeks air (N. Kolb) 4945, card air for 1 IRC in 30 days (Draut) 10 days for 2 IRCs. (Abraham)

SPAIN: RNE, 6140, card w/full data plus sked and station pennant in 44 days seamail. No IRCs. (Stahl) card with control room picture in 7½ weeks seamail, plus two very nice books in Spanish, per request, describing programs and new Noblejas mxtrs. (Sellers) 9520, color card plus sked in 124 days seamail. (Schultz) card, pennant and 135 page booklet in Spanish on their programmes. (Howard)

SUDAN: Omdurman, 11835, form letter along with tourist info in 3 weeks for 3 IRCs. (Conner)

SWAZILAND: Swazi Radio, 6155, personal letter from V/S: Miss Barbara Christensen, and plain QSL card w/programme and freq. sked but no details. 2 IRCs. Note new address: Swaziland Commercial Radio, PO Box 23114, Joubert Park, South Africa. Date/freq. given in letter (J. Kolb)

SWEDEN: Radio Sweden, "Northern Lights" card for 15310 in 1 month air. No return postage sent (Lobdell) 11705, card in 1 week for 2 IRCs (Jeffrey)

SWITZERLAND: I.C.R.C., Geneva, 7210, a red/white/black microphone card w/full data except time in 3 weeks for 1 IRC. (Conner) card w/out time in 17 d. air for 2 IRCs. (Dildine) 17 days air for 2 IRCs. (Howard)

S.B.C., Berne, 9535, air-port card in 9 weeks; no IRCs sent. (L. Marshall) b/w antenna card air in 56 days (Hunt) 6120, card in 40 days, no IRCs sent (M. Marshall) 9535, b/w photo card of Swiss Alps; 9 weeks. No IRCs. Sked also received a few days later. (Jeffrey)

TAIWAN: Voice of Free China, Taipei, 15343, card in 4 weeks (L Marshall). 15125, card/sked in 16 days for 2 IRCs (Draut) 23 days (Michlenka) (Stahl)

TANZANIA: RT, 5985, brown/yellow card with studio drawing in 81 days. 1 IRC. V/S: C.E. (Watman) 15435, card in 120 days seamail. 2 IRCs. (Schultz) 5985, card in 3 weeks for 3 IRCs (Slowey) 4 IRCs for 15435 (Schnur) 5 weeks airmail for 2 IRCs. (Kusalik)

➤ THAILAND: Thai TV, 7107, English letter on attractive station stationary in 3½ weeks. V/S: Mr. Visit Amphavorn, Director. 2 IRCs sent and reply came by registered airmail, with date, time, frequency, power and site. (Jamison)

TUNISIA: RTV Tunisienne, 6195, color p/card of Mosque in 1 month for 3 IRCs. (Conner) 4 weeks for 6195 (Duba, Friedman) 24 days (Webb)



SEB'S NEW HF ROTATABLE AERIAL AT SOTTENS  
(Photo: ITU)

UKRAINIAN SSR: Radio Moscow, Lvov, card in light purple and blue in 5 weeks for 6070 (Robbins) 6200/6070, cards in 40 days (Henderson)

Radio Moscow, Vinnitsa, 2 cards for 2 reports in 5 weeks air (Sellers) card in 29 days (Magne) card in 40 days (Henderson) 20 days air (Plum)

Radio Kiev program, 11850, card, sked, letter in 22 days (Austin) 35 days; no IRCs. (Schubert) 7150, card, mag and sked in 1 month. (Draut)

UNITED ARAB AMIRATES: Dubai Broadcasting Station, 6040, white card in 3 months for aerogram report. No IRCs. (Behr) (Lobdell)

U.S.A. KGEL, 15280, FEBC card, sked and pennant in 3 weeks (N. Kolb) 11920, 5 wks/ WNYW, 17755, card in orange/black in 18 days w/skred (Webb) 1 week (Orcutt)

NSS Time Signal, Annapolis, Md., 8070, white card w/blue "NSS", 3 months, surface with request that I visit the station (Henderson).

URUGUAY: Radio El Espectador, CXA19, Montevideo, 11835, card by air in 18 days for report in Spanish w/mint stamps. (Henderson)

VATICAN CITY: Vatican Radio, 5995, card w/all details in 10 days air. (Ronda) 10 days (L. Marshall)

VENEZUELA: Ecos del Torbes, 4980, letter in 1 1/2 months from V/S: Carlos Sarmiento (Lobdell) letter w/2 pennants in 1 month (McClellan)

R. Barquisimeto, 9510, card in 18 days for 2 IRCs and rpt in Spanish (L. Marshall)

R. Nacional, 11725, 103 days by letter & beautiful pennant by registered seemail (Schultz) 90 days for rpt in English. No IRCs.

(Ronda) 14 weeks (Padula) 15390, ltr and pennant by registered air in 2 weeks. (Jamison)

Radio Universo, 4880, card in 21 days for Spanish report and 1 IRC; no time given on globe card. (Plum) 20 days w/pennant (Brambley)

Radio Rumbos, card for 4970 in 6 weeks. 1 IRC sent w/rpt. (Brambley)  
Radio Yaracuy, San Felipe, 4940, network card in 1 yr, 5 months, 5 months after f/up in Spanish w/3 IRCs. (Calkin) 2 1/2 months from Luis Ortiz. (Hogarth)

YEMEN (PEOPLE'S DEM REP): Aden, 5060, card air for \$1 in 2 months. No time. (Shaw)

And that wraps up another fantastic month! Sincere and grateful thanks to the following 60 DXers who made it all possible:

Larry Abraham, MI	Marlin A. Field, MI	Al Linsenmeyer, IL	Bob Riter, WV
Marty Austin, TX	Al Friedman, OK	Chris Lobdell, MA	Marvin Robbins, NE
Michael Brambley, NJ	F. Earle Hall, MA	Larry Magne, PA	Kenneth Schnur
Ron Bruns, MO	Norman Hancheruk, PQ	Anthony Marks, OR	Karl Schubert, MI
G. A. Calkin, MEXICO	Mike Hardester, CA	Larry Marshall, CA	Bill Schultz, PA
John Campbell, TX	Dan Henderson, MD	Mrs. M Marshall, ND	Harold T. Sellers, ONT
Bruce Churchill, CA	Mark Hogarth, NY	Wm. A. Matthews, OH	Woody Seymour, NC
Dick Clawson, MD	Ron Howard, MD	Doug McClellan, NM	Edward C. Shaw, VA
Bill Coleman, NC	Ken Hunt, CA	Hank Michalenka, RI	Bob Slowey, IL
Charles Conner, LA	Dan Jamison, VA	Mike Nikolich, IL	Wm. S. Sparks, CA
Gerry Dexter, WI	Tom Jeffrey, OR	Frank Orcutt, RI	Stephen D. Squires, IL
R. S. Dildine, VA	Mary Jo Kelleher, NY	Dennis Pacheco, RI	Norman Starr, OH
Eric Draut, IL	John Kolb, CA	Bob Padula, AUSTRALIA	Mike Watman, NH
Mark A. Duba, VT	Neal Kolb, FL	Ralph Ferry, IL	Corky Webb, TX
Richard DuShane, MI	Edward Kusalik, ONT	W. J. Plum, NJ	Craig Wicks, MI

And so, until the August FRENDEX, Best 73s, Gud DX and Keep Smiling!



RADIO EL ESPECTADOR'S QSL CARD

OFICINA CENTRAL DE INFORMACION  
RADIO NACIONAL

Caracas, 29-2-72

Mr.  
Robert H. Rice  
534-16th Ave.  
Bethlehem, Pa.  
18018-U.S.A.

Dear Sir,

A check of your report against our station log confirms that you heard our Radio Nacional de Venezuela in Caracas, Frequency 11725 kHz. Date 12.5.72 Time 0305

We are therefore pleased to comply with your request for a verification of reception.

Yours very truly,



*Handwritten signature*

/odg.-

# LISTENER'S

# NOTEBOOK

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

Our COVER PHOTO this month is of the Radio Luxembourg Studios. Thanks to Gregg Calkin for supplying the photo.

"On May 28 I had a complete reception blackout on all frequencies from 1335 until 1410 GMT... After 1410, reception was back to normal. Did anyone else have this same experience? (Albert A. Miller) Yes, what you observed was a Sudden Ionospheric Disturbance. This was observed widely according to reports received here from both North America and overseas.

ARGENTINA RAE is scheduled to Europe at 1900-0000 with one hour programs in Spanish, German, Italian, French and English, in that order, on 11710 kHz. Also list to Af/ME, to ECNA at 0100-0400, and to WCNA at 0400-0700 on 9690 kHz. All Spanish except for English at 0300-0400 and 0600-0700. Also listed to FE. To LA at 0000-0100(Port), 0100-0300(Sp) and 0400-0600(Sp) on 9690. To the Far East/North Pacific at 0300-0400(Eng), 0900-1000(Japanese), on 9690 kHz. (Thanks to Larry Marshall)

AUSTRALIA An item in the June issue of AUSTRALIAN DX NEWS is interesting. ARDXC member Frank Aue reports that transmissions are expected from the Adelaide University station, VL5UV, on 28 June. Frequency will be 1630 kHz. Note that this qualifies as a shortwave broadcast station under NASWA station counting rules. Schedule was not indicated.

CANADA Well-known shortwave personality Earle Fisher of the Radio Canada International mailbag program retired at the beginning of June, 1972. His last show was heard on Sunday, May 28. His show will now be handled by two voices: Lynn Henderson and Charles Gursky. (Richard Wood)

FALKLAND ISLANDS Writing in the June issue of DX NEWS, published by the South African DX Club, gives the sked of FIBS; 2230-0130 weekdays, 2130-0130 Saturday, in the summer months. During the winter months (April to September) the station operates 2230-0200 weekdays and 2030-0200 Saturday. No Sunday schedule is given. The frequency is given as 3958 kHz, though it is said to drift a bit.

PORT GUINEA According to an item in SADX's DX News, the station at Bissau will in the future be owned by the army. New address is: O Commando Chefe, Programa sad Forcas Armadas, Bissau.

IRAN A transmitter at Shiraz operates 0615-0930 and 1230-1730 on 4500 kHz, according to notes from the BBC Monitoring Service. BBC MS also shows the external service, Radio Iran, to operate on 9005 at 1725-2130 in (1/2 hour each beginning 1730) Russian, Turkish, Arabic, German, French, English, Persian (full hour). The Persian tx at 2030 is also aired on 15085 kHz. (BBC Monitoring Service)

ISRAEL IBA operates 7189 kHz at 0358-0700 and 0900-2215, all in Arabic except for some news-casts at various times in English and French. (English 0500-0515 except Sunday, French 0515-0530.) (BBC Monitoring Service) ITU lists power as 20 kw. (DF) Further info from the BBC MS shows the schedule of the "Forces' Program". It is shown as: 0900-1210, 1300-2205, on 8777, 6332, 2442 kHz. All programs are in the Hebrew language..... Information reproduced by permission of the BBC Monitoring service. NASWA cannot grant permission for further reprinting of material credited to the BBC Monitoring Service.... Still time to make the Boston ANARC meeting, to be held July 14, 15, 16! Don't miss it!

# NHK

HOME SERVICE REVISITED! Some time back we had some partial info in this section on the NHK HS shortwave relays, and asked for further information. We now have the results of a one month survey of the NHK HS relays made by Hiroatsu Matsuura, a NASWA member living in Osaka, Japan. The schedules he has compiled follow with time, of course, in GMT.

3259 0815(a)-1300(or later) Sendai, I  
 3377 0800-1300 Osaka, II  
 3607 0900-1100 Hiroshima, II  
 3970 \*2000-0600 Nagoya, I  
 3970 0600-1100 Matsuyama, I  
 3970 1100-1200 Sapporo, I  
 3970 1200-1500 Matsuyama, I  
 6005 2040-0100 Matsuyama, I  
 6005 0140-0230 Fukuoka, I  
 6005 0230-0425 Matsuyama, I  
 6005 0500-0700 Fukuoka, I  
 6005 0800-0840 Fukuoka, I  
 6005 0840-1500 Nagoya, I  
 6130 \*2030-1500 Kumamoto, II  
 6175 2030-2330 Tokyo, I  
 6175 0000-0900 Hiroshima, II  
 6190 2030-0330 Osaka, II  
 6190 0400(a)-0800(or later) Sendai, I  
 7230 \*2000-2215 Tokyo, I  
 7230 0755-1000 Tokyo, I  
 7285 \*2030-1000 Tokyo, II  
 9535 0100-0130 Tokyo, I  
 9535 0135-0205 Sapporo, I  
 9655 2225-0745 Tokyo, I

BURMA EBS is reported by SADXC to have replaced 7120 by 7180 kHz for English at 0200-0230. Presumably the change holds for the 0030-0200 transmission in Burmese listed in WRTH 72. The ITU skeds list a tx at 0000-0230.

PAFUA R. Milne Bay will soon raise power to 10kw and move to 3360 kHz. Sked will be 2000-2200 and 0600-1300. The change was to have been made in mid-June. (Bob O'Brien in the ARDXC's AUSTRALIAN DX NEWS)

MALAGASY "R.Madagascar" has been noted at 0400 on NEW 4980/6135 kHz, according to an item in DX NEWS, the bulletin of S.African DX Club.

MEXICO XEYU, shortwave outlet of XEUN, Radio Universidad, is now active throughout its full schedule, 1300-0700, on 9600 kHz. Noted on full sked in Mexico City by Gregg Calkin, and in the 1300-0000 period by NASWA member Richard Wood in Louisiana. The style of programming has not changed, according to Gregg.

\* IS (music box) precedes for about five minutes....Our thanks to Hiroatsu Matsuura for this information which is extremely difficult to come by in N.A.

LEBANON Radio Lebanon broadcasts to Africa on 15170 kHz in English at 1830-1900, then Arabic to 2000, French to 2030....To South America at 2300-2330 in Portuguese, to 0030 in Arabic, to 0100 in Spanish, on 15355 kHz. (And noted there - see June LR. However Richard Wood now notes the freq to be 15200 kHz.)...The North American tx is aired on 11955 kHz at 0130-0200 in French, Arabic to 0230, English to 0300, Arabic to 0330, Spanish to 0400 s/off....Omnidirectional transmissions are at 0430-0730 on 5980 kHz; at 1625-1820 on 5980 kHz; at 0925-1600 on 9545 kHz. (Radio Lebanon, via Ron Howard, with note from Richard Wood)

## NEW DX PROGRAM

## WIN A TRANSISTOR RADIO

"This fall, I will produce a weekly DX program covering shortwave and broadcast bands. This DX program will be aired on a 50 kw BC station located in the central United States. Exact times not yet known but expect it will be between 0600-1000 GMT. More details to be announced later.

"I need assistance on originating a suitable name for the program and also suggestions and tips for the format.

"Two transistor radios will be given as prizes to the two DX'ers who submit the most suitable name for the program and the most informative letter with suggestions and tips.

"A special DX QSL card will be issued for the broadcast.

"All correspondence should be sent to: L.B. Swanson, P.O. Box 9, Cedar Falls, Iowa, 50613, USA."

ALGERIA Radio Algiers now uses 15420 and 11835(ex 9725, 7220) for French to the Middle East and West Africa at 2100-2300. (BBC Monitoring Service)

## Verie Signers

The list, published in booklet form, covers over two hundred eighty shortwave radio stations. Cost to NASWA members, in North America, is US\$1.50. Outside NA, by sea-mail, the cost is the same. Outside North America, by airmail, the cost is US\$2.00. Non-members may also purchase copies of the list for US\$2.00 in NA, and overseas by sea-mail. Non-members overseas may obtain copies by airmail for US\$2.50. Be sure to get your order in soon, as this list should prove quite useful for all QSL chasers.

THOSE ATTENDING THE ANARC CONVENTION IN BOSTON WILL HAVE THE OPPORTUNITY OF GETTING FIRST CRACK AT THIS SPECIAL PUBLICATION!! JUST ANOTHER REASON YOU SHOULD MAKE THE BOSTON MEETING! SEE YOU IN BOSTON!

ETHIOPIA Complete schedule of ETLF has been submitted by Larry Marshall, valid from 7 May to 2 September:

### Transmitter I

0300-0330	to Madagascar in FF on 11795
0330-0400	Madagascar Mal. 11795
0400-0410	Madagascar FF 11795
0415-0425	Ethiopia in Amharic 6065
0425-0440	Ethiopia in Amharic 6065
0445-0525	Zaire in FF 11800
0530-0610	W.Afr. in EE 11890
1255-1325	Ceylon in EE 15315
1330-1345	N.India in EE 15320
1345-1428	N.India in Telugu 15320
1430-1510	N.India in Hindi 15320
1515-1555	Madagascar in Mal. 15320
1600-1655	Ethiopia in Amharic 6065
1655-1710	Ethiopia in English 6065
1715-1755	E.Afr in Swahili 9705
1755-1825	E.Afr in English 9705
1830-1910	S.Afr. in English 7145
1915-2000	W.Afr. in French 15385

### Transmitter II

0300-0330	to East Africa, test	#7145
0330-0355	E.Afr. in Swahili	9730
0400-0425	E.Afr. in English	9730
0430-0555	W.Arab. in Arabic	15250
1230-1300	China in Mandarin	*15220
1230-1300	China in Mandarin	15275
1330-1400	S.India in English	15400
1400-1425	S.India in Tamil	15400
1430-1555	E.Arab. in Arabic	15190
1600-1625	Iran in Farsi	15190
1630-1655	Iran in Farsi	11745
1700-1745	W.Afr. in French	11955
1745-1828	W.Afr. in Fulfulde	11955
1830-1928	W.Afr. in Hausa	11955
1930-2015	W.Afr. in English	11955
#Tu/Th/Su. *Su-Wed. Th-Sat.		

BANGLADESH Latest sked from Dacca, which

is effective to 2 Sept, reads:  
 1230-1300 English on 11620/17935  
 1320-1350 Nepalese 9690/7260  
 1430-1530 Bengali 9680/11650  
 1600-1630 Indian Svc 9690/11650  
 1715-1800 English 11650  
 0230-0300 English 9690/15520  
 (George Schnabel)

JORDAN

Of some interest to NA DXers is the note from the BBC MS that the English service of Radio Amman is broadcast at 1100-1300 on 7155 kHz, and at 1630-1730 on 9560. (BBC MS) NA DXers in the mid-West might have a shot at the 1100-1300 transmission, though, as is well known, there are easier ways to hear Amman. (DF)

TANZANIA Radio Tanzania has adopted the following transmission schedule for the external service:

0330-0430	to East Africa on 4785 kHz.	1600-1700	to East Africa on 4785 kHz.	
0430-0530	to Central & So.Africa on 6105	1700-1830	to East, Cen., So. Africa on 15435 and 4785 kHz	
0900-1030	to East Africa on 9750 1Hz.		1830-2000	to Central/So.Afr. on 15435.

(Reproduced by permission of the BBC Monitoring Service)

AFGHANISTAN Kabul currently broadcasts to Europe at 1200-1230 in Pushto and at 1230-1300 in Afghan-Persian on 17825 and 15265 kHz. And at 1730-1800 in German, at 1800-1830 in English on 15265 and 11785 kHz. (BBC Monitoring Service)

LATE NOTE from Mike Hardester indicates UNID stn on 4000 kHz nightly after 0700 at poor lvl, fgy measured on BC221 and "am hoping the BC221 is correct." Many mentions of Solomon Islands; English and what is believed to be Pidgin; signal gets better as the night goes on, but static level high, and stays constant. No ID yet.

MOZAMBIQUE According to the South African DX Club the current schedule of the "A" program of RCM is:

0356-0530 on 4855/7210/11820  
 0530-0600 on 7210/11820  
 0600-1600 on 7210/11820/15290  
 1600-1630 on 7210/11820  
 1630-1800 on 4855/7210/11820  
 1800-1830 on 4855/7210  
 1830-1900 on 3210/4855/7210  
 1900-2210 on 3210/4855 (SADXC)

A recent item in SCDX from several DXers puts the 3210 fqy on the air till 2310 sign-off. Presumably this time now also holds for 4855 kHz.(SCDX)

CHINA The FUKIEN FRONT STATION sked, as monitored by Bob Bundy:

1000-1130 8195, 7280, 7025, 6765, 6400, 5990, 5240, 5170, 4840, 4380  
 1130-1215 7025, 6765, 6400, 5900, 5240, 5170, 4840, 4380, 3400, 3200  
 1215-1420 6400, 5900, 5240, 5170, 4840, 4380, 3900, 3400, 3200, 2600  
 1420-1850 6400, 4840, 4380, 3900, 3535, 3400, 3200, 2800, 2600, 2430

#### NASWA SPECIAL PUBLICATIONS

Several NASWA members have been working on some special publications to soon be issued by NASWA. Some, like the list of verie signers announced this month, will be available to both member and non-member alike. Others will only be available to members....The continuation of these special publication projects will depend on the response to them. So, if you are interested in seeing them continue, be sure and let us know. If you have in mind certain special publications you would like to see done, or would like to do yourself, be sure and let us know about it. Write Ed Shaw, Gregg Calkin, Gerry Dexter or me. (DF)

EXECUTIVE SECRETARY Bill Eddings is in much improved health, though still unable to return to work. Bill says, in a recent phone conversation, that he is much appreciative of the many cards and letters wishing him well. He is, by the way, now able to keep HQ functions going, and is doing his usual excellent job of it!

(AIR nx svc sked, from right column)  
 1830-1835 on 7215, 9525, 11620, 11945, 15080  
 2000-2010 on 7215, 9525, 9595, 9912, 11620, 11960  
 2100-2105/ 7215, 7260, 9525, 9912,  
 2200-2210/ 11620, 11740  
 (AIR, via Chris Lobdell)

INDIA Chris Lobdell sends the summer sked for AIR external services, valid to 2 September.

EASTERN SVC  
 0045-0115 Burmese on 7280, 9112, 11790  
 1115-1215 Burmese on 15235, 17780  
 2145-2245 Cantonese on 7290  
 1215-1315 Cantonese; 11620, 15165, 17835  
 0845-0945 Indones. on 15165, 17860  
 1115-1130 French on 17705, 21660  
 1140-1200 Thai(not Su), 17705, 21660  
 1245-1315 Sinhala on 15430, 17845  
 0130-0215 Nepali on 5985, 7225  
 0700-0730 Nepali on 9705, 11715  
 0215-0230 Tibetan on 5985, 9705, 11850  
 1230-1315 Tibetan on 9705, 11865  
 2300-0030 Hindi on 7280, 9912, 11740  
 1130- 1200 Tamil on 15335  
 0000-0045 Tamil on 7280, 9912, 11740  
WESTERN SVC  
 0245-0330 Pushtu on 7225, 9675  
 1445-1545 Pushtu on 3905  
 0715-0800 Dari on 11765  
 0345-0400 Persian on 15190, 17745  
 1615-1715 Persian on 3905, 9912  
MIDDLE EAST SVC  
 0400-0430 Arabic on 15190, 17845  
 1730-1830 Arabic on 3905, 9912  
 1845-1930 French to W.As. on 3905, 9912  
 1630-1730 Russian to USSR; 7110, 9615  
EAST AFRICAN SVC  
 1545-1615 Swahili on 11945, 15080  
 0330-0415 Hindi on 15130, 17705  
 1615-1700 Hindi on 11945, 15080  
 0415-0430 Gujarati on 15130, 17705  
 1700-1745 Gujarati on 11945, 15080  
 0435-0445 Konkani on 15130, 17705  
General Overseas Svc  
 2245-0000 E/SEA on 3905, 9530, 7235, 11710  
 0015-0115 E/SEA on 15235  
 2245-0115 NE Asia on 9570, 11895  
 0015-0115 NE Asia on 15340  
 1000-1100 NE Asia on 15190, 17380, 21555  
 1000-1100 ANZ on 11775, 15205, 17775  
 1330-1500 SEA on 11810, 15335  
 1745-2230 UK/Eur on 7215, 9525, 11620  
 1945-2230 UK/Eur on 9912  
 1745-1945 E.AFR on 11945, 15080  
 1945-2045 W/N.Afr on 9595, 11960  
 2045-2230 ANZ on 7260, 9912, 11740  
 English portion of the NEWS SERVICE;  
 2300-2310 on 3905, 7235, 9530, 9570  
 11710, 11895  
 0100-0105 on 7235, 9570, 11710, 11895, 15235, 15340  
 1000-1010 and 11775, 15190, 15205, 17380,  
 1055-1057 17775, 21555  
 1330-1340 and 11810, 15335  
 1455-1500  
 1800-1810 on 7215, 9525, 11620, 11945, 15080



Program available from 07.05 to 03.09.72

ORU INTERNATIONAL GOODWILL STATION

Overseas service of the Belgian Radio & Television R.T.B.-B.R.T.

ORU 3 - 100 kW		
ORU 4 - 100 kW		P.O.B. 26
ORU 5 - 20 kW		
ORU 6 - 50 kW	B-1000	Brussels Belgium

DAILY TRANSMISSIONS (Dutch, French, English and African languages)

	<u>G.M.T.</u>	<u>Meterband</u>			
News (Dutch - French)	from 04.30 - 06.15	25	25	31	31
	from 06.30 - 07.35	16	16	19	19
	from 08.15 - 09.55	13	16	19	13
	from 10.00 - 12.30	13	16	19	13
Sailors (saturday) and Missionaries (other days)	from 12.30 - 13.00	13	16	19	13
Program for Belgians in Europe	from 14.30 - 15.30	50	49	16	13
African languages	from 15.45 - 17.45	16	16	19	19
News (Dutch - French)- Music	from 18.00 - 22.00	16	16	19	19
Belgians over the world (specially beamed to America)	from 22.15 - 23.05	19	31		
<u>Belgium speaking</u>	from 23.05 - 23.15	19	31		
Sailors (fri, and saturday) Music (other days)	from 23.30 - 00.00	19	31		
Belgians over the world (specially beamed to America)	from 00.00 - 00.50	19	31		
<u>Belgium speaking</u>	from 00.50 - 01.00	19	31		
<u>Sports - Sunday</u>	from 13.30 - 17.00	13	16	50	49

OUR THANKS to Ron Howard for this schedule from RTB, Belgium....And, of course, thanks to all who made this issue possible by their contributions to this and other sections. Remember, it is the members support which has made FRENDX "the SWBC Journal"....Your attention is called to the statement on page LR 14 concerning the information credited to BBC MS.

73, Dan

# LOG REPORT

Larry Magne, Ed.  
 NASWA Log Report  
 P.O. Box 2133  
 Mid-City Station  
 Philadelphia, PA 19103-USA

Deadline: July 12, 1972

\*0100 s/on; 0100\* s/off; // parallel; a approximate; EE English; EGGP exc-good-fair-poor; "EIR" "East Is Red"; Indo Indonesian; "Int" "Internationale"; IS Interval Signal, Island(s); lbx letterbox; LL language lesson; LM light music; M man; mx music; NA National Anthem, North Am; NF new fq; nx news; px programming; rel religious; RF reactivated fq; t tentative; TC time check; v varies; w/ with; W woman; wx weather.

## 120 Meter Band

2360 GUATEMALA R Maya 1054-1107 SS/Indian lang, hymns, ID, mx (DW)  
 2390 GUATEMALA LV de Atitlan 0218-0328 SS, "R Escuela", gone 0347 check, also 0259-0302\* ranchera mx, gave QTH (Y)

## 90 Meter Band

3204 NIGERIA NBC Ibadan 2305\*, local mx, NA, P (RFB) EE? (Ed)  
 3205 INDIA AIR Lucknow 1534 EE, nx, //6145D, F (BBY)  
 3210t MOZAMBIQUE RCM 2210\*, mx & anns (RFB) Rptd PP recently (BADX)  
 3215 DOM REP R Libertad 0315 SS, M w/"informas", F (RWP)  
 3218½ ESPIONAGE 0100, repeating bars fm "On the Beautiful Blue Danube", F, is this a legitimate Austrian Govt Svc? (BB)  
 3223t INDIA AIR Simla 2010, loc mx, W annor w/Indian accent (AEM)  
 3230 FIJI RF 0710 EE, BBC nx, "Frigidaire" ad, ID, loc nx, F (RBO)  
 3232 CONGO R Brazzaville 2115-2125 FF, nx, loc mx, G (RFB,AEM)  
 3260 NIGER Naimay 2010 FF, loc mx, anns (RFB)  
 3266 ESPIONAGE 1000-1010\* SS, rpts "Atencion 634", then "final, final", then off, is same stn as on 12011 0700-0710, G (BB)  
 3280 MALAWI MBC 1911 EE, tlk, loc mx, FP (AEM)  
 3284 FIJI PBC 1015 Fijian, tlk, P (BB)  
 3290 GUYANA Action R \*0842 EE, IS, S9+ daily (RWP)  
 3295 GHANA RG 2107 EE, nx (RFB)  
 3315 INDIA AIR Bhopal 1538 EE, nx, //6145D, F (BBY)  
 3316 SIERRA LEONE RSL 0630 EE/lang, ID 0628, pops, F (RD)  
 3322½ BOUGAINVILLE IS R Bougainville 1000 FF?, loc Is mx, ID (RBO)  
 1133-1146 Pidgin, Poly mx, pops, anns, P (DW)  
 3325 GUATEMALA R Maya 1117-1130 lang (Indian?), rel px, mx, anns (DW)  
 3340 UNID 0331, mx, QRN, P copy (DJ) Zanzibar? (Ed)  
 3344½ ANGOLA RC do Huambo 0530 PP, tlk, P (BB)  
 3345½ UNID 1015 lang, RRI?, P (BB)  
 3350 GHANA RG 2100 EE, nx (RFB)  
 3350t PERU R Independencia 0940 lang, low M, no mx (ECS)  
 3355 INDIA AIR Kurseong 1539 EE, nx, G //6145D (BBY)  
 3355 N CALEDONIA ORTF 1023-1034 FF, clas mx, anns, noisy (DW)  
 3365t INDIA AIR Delhi 1540 EE, nx, F //6145D (BBY)  
 3365 BRAZIL Rdif do Parana 0845 PP, pops, F (BB)  
 3366 GHANA RG 2050, loc mx (RFB) Presume EE (Ed)  
 3375 INDIA AIR Gauhati 1541 EE, nx, P //6145D (BBY)  
 3375t ANGOLA Em Oficial 2100-2330 PP, sports cmty (RFB)  
 3375½ BRAZIL R Olindo Pernambuco 0115, Brazilian pops, F (BB)  
 3385 N BRITAIN R Rabaul VI9BR 1030 Pidgin, anns, chorals, QRN (RWP)  
 3390 ECUADOR R Zaracay 0605, ID, lt LA orch mx, weak (RWP)

## 3400 - 3900 kHz

3408½ JAVA R Angkatan Udara 1432 Indo, mx, P //11323½, 4308 in WRTH incorrect (BBY)

75 Meter Band

- 3900t CHINA (Inner Mongolia) Hailar ("Ubermongolin Aratin Arajio Horoone Hyirtogor Horoo" - Ed) 1040-1115 Mongolian HS, P, is usually covered by Fukien Front (BBy) Should propagate here (Ed)
- 3900 CHINA Fukien Front 1615-1850\* CG, mx, tlk, F //4380 (BBy)
- 3905 W IRIAN RRI Djajapura \*0753, IS, ID, F //6070 (BBy)
- 3916 MOLUCCAS RRI Ternate 0845-1115 Indo, tlk, instr mx, "Ter-na'-te" heard, but not actual ID, F (BBy)
- 3925 N GUINEA ABC 0840 EE, sports report, FG //4890, but AROs (RBO)
- 3939NF PAKISTAN RP Lahore 1630-1730\* lang, tlk, loc ID, Pak mx, F (BBy)
- 3952 S AF SABC 1630-1930 Afr, tlks, mx, sports, UTE-QRM, F (BBy)
- 3958t\*\* FALKLAND IS FIBS 0015 lang, M voice, mx "Sweetheart Tree" by Robert Goulet, considerable QRM (ECS) Congrats, OM!!! (Ed)
- 3960 CAPE VERDE IS RCV 0020, pops, strong & noisy (AEM)
- 3960 IRAQ R Baghdad 2320 AA, AA mx, hosted by M, G (ECS)
- 3965 S AF SABC 1630-1930 EE, mx, anns, P w/QRM (BBy)
- 3970t CAMEROON R Buea 1922-1930 FF, tlk, Af mx, IDs? 1928, P (BBy)
- 3975 W IRIAN Unknown QTH 0806-1030 Indo, Indo mx, 0900 W Irian loc nx relayed from Djajapura, 0915 loc ID but too soft to read, F //6070, 3985, 3905, time hrd & Djajapura nx rule out listed Surabaya, irr UTE QRM (BBy)
- 3985 W IRIAN RRI Merauke 0900-0915, Djajapura nx relay, F (BBy)
- 3995 SOLOMON IS SIBS 0720-1003 Pidgin/EE, nx, mx, ID (GLD,MAF,BBy)
- 3997 S AF Springbok 0445 EE, LM, ads, nx 0500, G but AROs (DJM)

4000 - 4750 kHz

- 4028 N VIETNAM Viet Bac \*1130-1300 VV, IS, IDs by M&W, F //6708, which is on earlier as well (BBy)
- 4030 USSR Soviet HS (which - Ed) 0815, P //12240; 1025, P //5940(BBy)
- 4035 TIBET Lhasa 1610-1750 Hindi relay of RP FS, nx, P (BBy)
- 4050 USSR \*1800 RR, over another RR, Petropavlovsk list (BBy)
- 4094% UNID 1813-1814\*, pops, P (BBy) Hrd again maybe earlier? (Ed)
- 4299% UNID 1030-1830 Indo, mx & tlk, F but CW QRM (BBy) //s? (Ed)
- 4500 UNID Time station 1852-1903, 1 pip/s, CW IDs? 1900, under VNG (BBy) Cf Jan 72 LR-10 7500 2015. Same stn? (Ed)
- 4700%t BOLIVIA R San Miguel 0130-0215, non-Andean, F but wk (BB,TW)

60 Meter Band

- 4754% BOLIVIA R Em Bolivia 0145, Andean mx, P w/LA QRM (BB)
- 4755% BRAZIL R. Brasil 0811 SS, ID, LA mx, QTH "Campinas" (NM) SS?(Ed)
- 4755% BRAZIL Rdif Maranhao 2355, pops, ID (AEM)
- 4764 SUMATRA RRI Medan 2315 Indo, nx, 3/4 note chimes, semi-pops (AEM)
- 4769v N KOREA KCBS 1255-1305 KK, opera, 4 pips, ID, G (DW)
- 4770v VENEZ R Bolivar 0300-0320 SS, many IDs, mx, F (LKM)
- 4774%v DOM REP Onda Musical 0208 SS, IDs, mx (HS) 0345 SS, ID, mx (CC)
- 4777 GABON Libreville 2200 FF, nx, ID, mx (FH)
- 4780 HONDURAS R Juticalpa 1025, ranchera mx, IDs, G (TW)
- 4782% MALI Bamako 0615, Mali mx, F //5996v, UTE gone (BB) Lang? (Ed)
- 4784% BRAZIL R Ribamar 0815 PP, F (BB) ID or QTH hrd? (Ed)
- 4785NFv PERU R Atlantida \*0900-1030, 0230-0300 SS, probably ex-4815, Andean mx, Coke ads, echo IDs, sports, overmod (TW, BB, GLD, LM)
- 4791 ECUADOR Em Atalaya 0420-0440, soft piano mx, MOR discs, G (RWP)
- 4795 COLOMBIA R Reloj 0232, SS pops (MN) Relaying Reloj? Only HJFU "LV del Comercio", Armenia, 1 kw, list active here per Govt (Ed)
- 4797 BOLIVIA R Nuevo America 1040 SS, Andean mx, TC, ID (DW) 0434, ID, QTH, cnty by M&W, ads, "Informas Nueva Am", F but QRM (RWP)
- 4797 ECUADOR LV de los Caras 0820, ranchera mx, weak (RWP)
- 4800% LESOTHO RL 0500 EE, BBC nx, ID, P (LKM)
- 4800 INDIA AIR Hyderabad 1543 EE, nx, P //6145D (BBy)
- 4800 VENEZ R Lara 2302 SS, LA mx, many IDs (RFB)
- 4804 KENYA VoK 1900 EE, nx, ID (RFB)
- 4806% BRAZIL Rdif do Amazonas 2345 PP, F (BB)
- 4810 ECUADOR R Canal Manabita 0847-0857\* SS, LA mx, ID, P (BBy)

- 4813½v UPPER VOLTA RTV 2235-2300 FF, pops/soul/jazz, ID, IS, NA (ECS)  
 4819¾ ECUADOR R Paz y Bien 0915, cha-cha, F (BB)  
 4820 GAMBIA RG \*0629 EE/Fula dials, IS, ID, chants (BB,RWP) 2240 EE, pops, anns, heavy CW QRM (RFB)  
 4820 HONDURAS HRVC 0430\* EE, ID, rel px, mx, E (NM)  
 4822½ BOLIVIA R Grigota 0220 SS, ID w/Indian accent, UTE off Mo (BB)  
 4825 ECUADOR R Luz y Vida 0320, much mx, "Luz y Vida" oft, G (GLD)  
 4832v COSTA RICA R Capital 0010 SS, nx, ID (AEM) 0316 SS, ID, mx (MN)  
 4835 SARAWAK RMS Kuching \*2200-2230 f/o Malay, chants, anns (BF)  
 4835½ BRAZIL Rdif Roraima 0845 FP, pops, F (BB)  
 4838¾ ZAIRE R Bukavu 0415, Zairean mx, P (BB)  
 4839 MOLUCCAS RRI Ambon 0900 Indo, loc ID //7139 (BF) 1245 Indo, nx, ID by W, Indian type mx (DW)  
 4845t BOLIVIA R Fides 0915, Andean mx, P; also 0330\* (BB)  
 4845 BRAZIL Rdif Teresina 0744-0815 PP, LA mx, ID, orch mx (JDT,RWP)  
 4845 MALAYA RM Penang 1045 lang, sad M vocals, F (RWP)  
 4855 MOZAMBIQUE RCM 0425 PP, mostly mx, anns, F (GLD)  
 4867 COLOMBIA LV del Cinaruco 0300-0313\*, IDs, NA, F, cf June LR (GLD)  
 4871t BOLIVIA La Cruz del Sur 0101-0259\*SS, clas mx, rel tlk & mx, P (DJ) Perhaps R. Rio Amazonas, Ecuador? Cf following. (Ed)  
 4876 BOLIVIA La Cruz del Sur 0230-0259\* SS, rel drama, EE ID, P (LKM)  
 4875NF AUSTRALIA (out-of-order) ABC 1110 EE, nx (TJ) ID? QTH? Bob, do you know anything about this? (Ed)  
 4885t PERU R Villarica 1010, weak, P (BB)  
 4885¼ BRAZIL R Acreana 0345, futebol, P, Pocos de Caldas now 5015 (BB)  
 4890 SENEGAL Dakar 1950, harp IS (Tent) (RFB) 0615 FF, chants (MD)  
 4890 PERU R San Juan 0404-0505, YV off, ranchera mx, ID, ad, G (RWP)  
 4890 PAPUA ABC Port Moresby 0810-0845 EE/Pidgin, sports, Pac nx, G //3925 (RBO,RWP) 1200, BBC px, ID, pops, 30 over (DW)  
 4896¼ PERU R Chanchamayo 0500, Andean mx, G (BB)  
 4911 ECUADOR Em Gran Col 0335 SS, ID, mostly talking, F (CC)  
 4915 GHANA RG 2210 Vern, talks, E (FH)  
 4915 KENYA VoKenya 1740 Vern, "Ever Ready" ads, W anncr, nx, FG (AEM) 1945, loc mx & anns (RFB) 0332-0338 EE, Af mx, anns (GLD)  
 4916 COLOMBIA R Guatapuri 0455\* SS, M w/ID, nx, NA (ECS)  
 4920 HONDURAS R Progreso 0308 SS, IDs, NA (MN) 1015-1103 ID, clas & ranchera mx, M anncr, requests (CP,ECS)  
 4920 INDIA AIR Madras 1544 EE, nx, P //6145D (BBy)  
 4935 BRAZIL R Poti 0000-0100, ID, P (EU)  
 4935¼ PERU R Tropical 0445 SS, talk, F (BB)  
 4939 ECUADOR R Nac 0400-0455\* SS, IDs, G (MN,BB)  
 4940 IVORY COAST Abidjan 2200-0000 FF, mx, nx, piano, talks (AEM,EU)  
 4945 COLOMBIA R Colosal 0000-1130, ads, IDs (EU) 0420-0432 SS (CP)  
 4962v DOM REP R Antillas 0130-1130, rosary, mx, ads (EU) Nonstop? (Ed)  
 4965 COLOMBIA R Santa Fe 0510, LA mx, F (JWP) Welcome aboard OM! (Ed)  
 4970 SABAH RM Kota Kinabalu 1230, tlk by M, ID, nat nx, P (DW)  
 4972 CAMEROON Yaounde 2215, Af jazz, noisy but strong (AEM)  
 4976 UGANDA RU 2100-2110\* EE, nx, NA (RFB)  
 4980 VENEZ Ecas del Torbes 2325, LA mx, many IDs (RFB)  
 4980 GHANA RG 2100 EE, rel px, nx (RFB)  
 4984¾t ANGOLA R Ecclesia 0515 PP, too Eupn for Brazil, F (BB)  
 4990 VENEZ R Barquisimeto 2320 SS, LA mx, ID (RFB) 0401\*, rock (CP)  
 4995¼ PERU R Andina 0430-0600, 1030-1130, Andean mx, G (BB,EU)  
 4996 BRAZIL R Brasil Central 0015-0050 PP, nx, instr mx (JDT,MD,RWP)  
 5000 NEPAL RN 1215-1503, W tlk, As mx, EE? 1503, over pips QRM (BBy)  
 5015 BOLIVIA R Universo 1029-1044 SS, LA mx, ID, P (CP)  
 5026¼ BRAZIL LV de Rio Sao Francisco 0830 PP, new sked, F (BB)  
 5030 VENEZ R Reloj Continente 0000-0506\*, 1030-1130, ID, G (EU,RWP)  
 5035 COLOMBIA LV de Caqueta 0338-0400\*, LA ballads, pops, NA (RWP)  
 5035 BRAZIL R Anhanguera 0900 PP, nx, F (BB)  
 5035 BRAZIL Unid 2355-0400 PP, ads, mx, ZYW22 & ZYO24 list (ARN)  
 5035½ UNID 0530, Cabinda or Ilo?, P (BB) Pse, it's no use listing unids when there are no details (Ed)  
 5038NF SUDAN Huna Omdurman 0310 AA, chants, P //11835 (CC) ex-4994 (BBCMS)

- 5038½ CENTRAL AFRICAN REP Bangui 2032 EE, nx (RFB) 2130-2301\* & 0500  
-0630 FF, Af mx, tlk, nx, G (EU)
- 5040 VENEZ R Maturin 0320, ID, LA fare, weak (RWP)
- 5040 GEORGIAN SSR R Tbilisi \*0200 Georgian, IS, NA, weak (ECS)
- 5046¼ TOGO Lome 2218 FF, mx, G (FH) \*0530 FF, ID, FF mx, G (RWP,NM)
- 5047 UNID LA 0344-0351\*, mostly mx, NA of Colomb or Ec?, QRN (GLD)  
Colomb Gov lists LV de Medellin HJDW 1 kw on 5050 (Ed)
- 5047 JAVA RRI Jogjakarta 1125 EE?, vocals, nx, M&W talk (lang?)(CC)
- 5051 VENEZ R Mundial 0400\*, NA, F (RWP) \*0858-1130, IDs, mx (EU)
- 5053¼t BOLIVIA Cf May LR-4. R San Rafael 0945 slow vocals, P (BB)  
Unid 1115-1130\*, mx, P (CC) Same stn? (Ed)

## 5060 - 5950 kHz

- 5060¼ ANGOLA RC do Huambo 0530 PP, F (BB) Details, pse (Ed)
- 5061¼ ECUADOR R Catolica 0315, Andean mx, F (BB)
- 5084¼ SUMATRA RRI Medan 1030 Indo, P (BB)
- 5095v COLOMBIA R Sutatenza 2310 SS, LA & EE pops (ECS) 0430, mx (MN)
- 5110 UNID 1217-1305\* Burmese?, seems clandestine, some mx, mostly  
tlks, "Int" 1248 and at s/off, not //5040 Rangoon, seems China  
QTH, is a new station (BBy) Also noted by Victor G Sri Lanka(Ed)
- 5170 CHINA Fukien Front \*1000-1420\* CC etc, many //'s, G (BBy)
- 5240 CHINA Fukien Front \*1000-1420\* CC etc, many //'s, G (BBy)
- 5873¼ BOLIVIA La Cruz del Sur 0040 SS, Protestant rel px, E (ECS)
- 5900 CHINA Fukien Front \*1000-1420\* CC etc, (BBy)
- 5935 TIBET Lhasa 1200 CC, ID "Hsi Tsang Jenmin Kwangpo Tientai", 5  
pips, talk, G (HMa) Sounds just like 9490% at 1159 (Ed)
- 5935t LATVIAN SSR R Riga 0300-0340 RR HS, orch mx, nx, W ancr (ECS)

## 49 Meter Band

- 5950 NICARAGUA R Zelaya 0120 SS, CA mx, P (FH)
- 5950 UNID Harbin? 1030 CC, weak (DJ) + (JWP) (RWP)
- 5950 PERU R Aerequipa 0240-0300 SS, M&W talk, ID, pops, gone 0315/  
GUATEMALA R Cultural 0258-0357 EE, rel px (EU,KH) 0825 SS (CC)
- 5955 COSTA RICA R Casino 0450-0520 EE, IDs, old pops, Coke (DW,CC)
- 5960 HONDURAS LV del Occidente 1118, ads, ID, G (TW)
- 5962v COLOMBIA LV de Bogota 2330, 0100-0330, 0340, 0515-0528, 0700-  
0830, 0900, 0958-1130 SS, IDs, "TOLEDAR" anns, lively LA mx,  
vocals, ads, FG (ECS,GLD,EU,BP,CC,BB,DW,DJ) Whew! Seems 24h(Ed)
- 5965 MALAYA RM-KL 1045, Malay vocals, F //7201k,4790 (BB)
- 5965 BRAZIL R Guaiba 2230-0200, nx, mx, ads, IDs (EU)
- 5970 PERU R El Sol 0415-0432, 0800-0930, 1015-1035, 1104-1120 f/o  
SS, ranchera mx, sports, IDs, ads (TW,JDT,EU,DW)
- 5970 USSR RM HS 2 "Mayak" 1130 RR, IS, ID, hetting an LA stn (CC)
- 5975¼ ECUADOR R Nac, Quito 0430-0500\*, IDs, NA (EU) //4939? (Ed)
- 5975 CHINA RP 1140-1157\* KK, KK mx, "Int" (CC) //4620,4020 (BBC MS)
- 5980 EL SALVADOR R Nac 2345-0230, nx, mx, IDs, //9555 (EU)
- 5980RF S AF RSA 2100 PP & 2213-2315\* EE, G (EU,BB)
- 5980 SABAH RM Kota Kinabalu 1045-1130 Kadazan (list), EE nat nx,  
talks & loc IDs by W, G //4970 (BBy)
- 5985 N GUINEA Cf May LR-4. Stn here 1030 is ABC, not Rabaul, VH9RH,  
sked 2230-0530 w/ed px to Gazelle Peninsula (BP) ABC QSLd(ECS)
- 5987¼ SAUDI ARABIA Riyadh 2230 AA, F (BB) \*0300-0830\*, \*1000-2300\*  
Sa-Th, \*0300-2300\* Fri (BBC MS) Cf June LR-4 (Ed)
- 5990NFv ROMANIA RB 0130-0230 EE/NA ex-5980, P //6190,6150 (EU)
- 5990 BRAZIL R MEC (anncd) 0009 PP, ID, G //11950 (ARN)
- 5995 AUSTRALIA RA 1000-1130, nx, requests, cmty (EU) Lang EE (Ed)
- 5996v MALI Bamako 2145-2330 FF, mx, QRM (EU) 2350, mix DW 2200 (BP)
- 5998¼ BRAZIL R Inconfidencia 2300-0040, \*0755-0931 PP, LA mx, ads,  
chimes, IDs, was 6000, soccer, G (ARN,NM,BBy,EU,RWP)
- 6000¼ SINGAPORE R Singapura 1045 CC, F (BB)
- 6006 COSTA RICA R Reloj SS, ID, clock ticks, ads, LA mx 0000-0100,  
1113, F (AAM,EU) Radiates strong harmonics (Ed)
- 6010 CANADA CJGX 2200-0100 EE, ads, mx, much QRM (EU)
- 6015 BRAZIL RC Pernambuco 2330-0030, soccer, QRM Bonaire (EU)

- 6020 PERU R Victoria 0615-0704\* SS, IDs, mambos, jazz, F (RWP,DW)  
 6020 NETH ANT RN 0030 SS, "Happy Station", IDs, mx (BH)  
 6020 MEXICO El Eco de Sotavento 1210 SS, SS mx (JDT)  
 6037 COSTA RICA TIFC 0415\* EE, F (AHR)  
 6040 UNID 1200 CC, cf June LR-4. Only this CC stn noted here, no Indonesian (BBy)
- 6045 PERU R Santa Rosa 0132-0240 SS, LA mx, TC, IDs, talk (AAM,MRL)  
 6045 BRAZIL RG Paranaense 0920 PP, mx, "Parana" hrd, P (CC)  
 6047v TAIWAN BED9 Tamsui 1000-1115, 1755-1805 CC/People's China, IDs, M&W tlk, mx, jammed by "SK", P //3335, 7250 at 1800.(BBy) \*0945 -1915\* (BBC MS) List WRTN as nominally 6040 (Ed)
- 6050 NIGERIA Western Nigerian Radiovision Svc, Ibadan, 2200-2225, EE pops while BBC off for 25', then covered (BP)  
 6052 HONDURAS R America 0800-0900, IDs (BP) 1130, ID (TW) 0400-0500\* SS, mx, nx, IDs, chimes, HCJB off (MAF,CC)
- 6055 RWANDA RRR 0406-0438 lang, nx by M, ID by W, loc vocals (JDT)  
 6055 JAPAN NSB 0910 JJ, tlks, mx, G (CC)  
 6065 COLOMBIA R Super 0610 SS, rhythms (RWP) 0915 SS, mx, IDs (CC)  
 6070 CANADA CFRX Toronto 1718,2138,0315,0400 EE (HS, FH, KH, FO)  
 6070 UNID 1220-1302\* CC, jammed, Nx & Mx Stn at new time?, didn't hear "New World Symp", tho (BBy) Cf June LR-6, 9565 (Ed)
- 6071 VENEZ R San Sebastian 2155 SS, mx, rapidfire anns, QRM (FH)  
 6075 COLOMBIA R Sutatenza 1010, nx, mx, strong (JDT)  
 6075 SRI LANKA CeBC, Colombo 1145, Hindi mx, F //11800v (BBy) "No decision yet made regarding name change of CeBC" (BADX)
- 6085 BRAZIL R Jornal do Comercio 0400 PP, ID (MRL) \*0900 PP, mx (CC)  
 6085 W GERMANY Bayerische Rundfunk 1735-1755, 2120-2200 GG, mx (BP)  
 6085 ZAIRE R Kisangani 0410 FF, Af mx, G but WRN (GLD)  
 6085 ESTONIAN SSR R Tallinn 1900-2200, Estonian HS 1900, oldies, RR nx, NA 2100\*, Swedish FS \*2105, lbx //1034MW (JC) 2105-2200 in Estonian T/T/Sa, Swedish M/W/F/Su (BBC MS) Only known fqs (Ed)
- 6090 LUX RL 0035-0200\* EE, pops, nx, IDs (WWS,RWP)  
 6092 CAMBODIA Phnom-Penh 1030-1115, G until 6/2, now unhrd, blown off the air by CPNLAF rockets? (TW) So claimed in spring (Ed)
- 6095 IRAQ R Baghdad \*0226-0300 AA, chants, chirps, ID, QRM DW (EU) \*0255 since before March (BBC MS) ? (Ed)
- 6095 COLOMBIA LV del Centro 0445 SS, ID, mx (CC) 0550, ID, mx (GLD)  
 6095 BRAZIL Rdif Sao Paolo 0850 PP, mx, IDs, anns, G (CC)  
 6100a VENEZ Senales Horarios 0650-0800, musical pips (BBy,MAF,CC)  
 6100v NIGERIA NBC Maiduguri 2245-2300a\* EE ex-4900 (ex-6140), F (BB) Unid 0700 EE, pips, ID "This is R...", nx, Bu/Af?, P (BBy)
- 6105t TANZANIA RT 0400, nx, Af mx (MAF) \*0300 Swahili, nx 0400 (BBCMS)  
 6115 COLOMBIA LV del Llano 0400 SS, ID, cuckoo tone, mx (MRL)  
 6115 BRAZIL R Tupi 2355 PP, lively Brazilian mx, G (ARN)  
 6115 PERU R Union 0409, LA mx, frequent IDs (JDT)  
 6115 MEXICO R Univ de Sonora 0030 SS, clas mx, ID, G (DJM)  
 6115 CONGO RTVC 2245-0000+ FF, ID, nx, on late, E @ 10 am loc (BP) 2226, Af mx, strong (JDT)
- 6120 ARGENTINA R El Mundo 0125 SS, anns by 2 M, IDs, under SBC (FH)  
 6120 HAITI 4VE de 4VEH 2330 EE, Dale Evans (MRL) 0015 EE relpx(ARN)  
 6125v UNID 1450-1730\*, \*2000 CC dial, Chi operas //6188½,7145, no IS/NA/ID, no "Int" or "EIR", G (BBy) Also noted in Phila on 7520; that plus hearing Bob's tapes, which indicate Chi jammers underneath these stns playing nonstop Chi rev operas, plus the fact that only the anti-China "Fighters" cland uses 7520, suggests these are jammers similar to the Soviet Mayak type or the Polish ones used to cover RFE and Polish diesel jammers. Apparently these musical "jammers" are to hide the fact China (or Poland or the USSR) are jamming by covering the obvious jammers. (Ed)
- 6125 HONDURAS R Suyapa 0047, pops, ID (DJ) 0625\* SS, ID, LA mx (DW)  
 6130 CANADA CHNX 2140 EE, "Swinging Safari" mx (FH)  
 6130 COLOMBIA LV del Llano 1005, nx, ID (TW)  
 6135v ALBANIA R Peking relay\*2300-2355\* SS, F (BB)

- 6135 POLAND R Warsaw 0028 EE, IS, ID, P (AAM)  
 6139% COLOMBIA R El Sol 0425,0455,0720,0948 SS, ID (NM,GLD,GS,DJ)  
 6140NF CZECH R Prague\*0700-0755\* EE/Eu, P w/QRM (BB)  
 6144 NIGERIA NBC Calabar 1930 EE, ID, TC, loc mx, P w/QRM (BBy)  
 2255, relay Lagos EE nx, pops, not often heard here (BF)  
 6145 INDIA AIR Delhi 1520-1600\* EE, nx, cmty, local ID, many // 's,  
 G, 1551 may be a good time to look for regional IDs (BBy)  
 6154% SINGAPORE R Singapura 1100 Malay, P (BB)  
 6155 JAPAN FEN 0957, LM, FEN nx 1000 (DJ)  
 6160 CANADA CKZN, St. John's, 2250-2315, pops, ID, "best catch"(BP)  
 Congrats, Bob! Even in the US that's a catch, esp WCNA (Ed)  
 6160% COLOMBIA Rm Neuva Grenada SS, RCN ID, LA mx, ads, G (NM)  
 6170 W GERMANY DW-W \*0130-0250\* EE/ECNA, test, E (JPR,WWS,JDT,BB)  
 6176 CHINA Sian 1619-1620\* CC, "Int" (vocal), CC ID, P (BBy) Bob  
 gives gd clue to local vs FS Chi stns, the vocal "Int" (Ed)  
 6178 CHINA Unid to 1634\*, lang, talks, vocal "Int" (long), P (BBy)  
 Urumchi? If so, IDs as "Sinkiang Khalk Radyostanski" and likely  
 //4110, 5800. (Ed) Sometimes regional stns also play a vocal  
 version of "EIR" from a CC disc easily bought in the US (Ed)  
 6188 IRAQ R Baghdad 1750-1802 Farsi, natl mx, ID, //6095 (BF)  
 6195 TUNISIA RT 0505 AA, chants, F (LKM) 2330-2355\* AA, nx, G (TW)  
 6195 MALAYSIA BBC 1100, pops, nx (JDT) WS/Indonesia list (Ed)  
 6198 PERU Unid, maybe R Sudamerica, 0200-0400 oft, "OAX" hrd (MAF)  
 6199 LAOS VoPathet Lao 1140-1205 VV, IDs, G //4660,7310,7479 (BBy)  
 ID is "Day la Dai Pathet Lao" per Bob's tape, 1145-1200 VV (Ed)

#### 6200 - 7100 kHz

- 6202v UNID LA 0245-0400+, P, for 2 wks to 5/25, not since (RWP) Cf6198  
 6204% INT WATERS RNI 0300 DD, pops, F (RWP)  
 6225 PIRATE World Music Radio 0947-1017 Su, "American Pie", 15  
 watts, QSLed, QTH Netherlands, P (AEM)  
 6250 EQ GUINEA R Santa Isabel 0502 SS, ID, nx, mx, G (GS)  
 6255 AUSTRIA Austrian Army Training Stn 1645 GG, ID, EE pops (RFB)  
 6340t TURKEY Ankara Police Radio 1742-1802 TT, Moslem-like mx, short  
 talks, no IDs (BBy) ID "Burasi Ankara Turkiye Polis Radyosu",  
 sked 1730a-1900\*, 1 kw (BADX) Ever verified? (Ed)  
 6345 CHINA RP HS 2 1130, tlks, presumed RP2, P (CC) \*1130 //10259,  
 9020,7770,7190,5075 (BBC MS)  
 6400 CHINA Fukien Front \*1000-1850\* CC,etc, P w/KCBS QRM (BBy)  
 6400 UNID 1135, PLA or KCBS?, under marker (CC) Both sked 1135 (Ed)  
 6540 N KOREA KCBS 1110 JJ, not // 6580, F (CC) //3015,635 MW (Ed)  
 6580 N KOREA KCBS 1115 presumed, P (CC) New?? Is not JJ (Ed) \*1800-  
 1855\* EE, //3560, new svc (BBy) //9515v? (Ed)  
 6662t MALDIVES RM Male \*1300-1400 Maldivian?, traces of mx, UTE QRM,  
 is 2x3331, but fund unhrd, P (BBy) 6662 stronger than 3331 (G.  
 Victor G., Sri Lanka) Amplified harmonic? If so, is SWBC! (Ed)  
 6708 N VIETNAM Viet Bac 1130-1300 VV, IDs by M&W, F //4028 (BBy)  
 6765 CHINA Fukien Front 1045, many //s, E (BBy) Cf NR for sked (Ed)  
 6793 UNID Asian 1230-1305 VV-Khmer-like lang, M w/speech & applause,  
 march mx, M talks, 1257 trumpet IS or fanfare, 1300 pop instr  
 "If I Only Could", light jamming, F (BBy)  
 7025 CHINA Fukien Front \*1000-1215\* CC/Amoy, new time (BBy)  
 7030v CHINA RP 1806-1830 RR, varied from 7026-7035, PF (BBy)  
 7080 N VIETNAM VoV PS 1350 Laotian, talks, mentions "Kampuchea",  
 ARO QRM, PF (BBy) \*1330-1400\* //10150v,7545v,4683 (BBC MS)

#### 41 Meter Band

- 7125 INDIA AIR Delhi 1547 EE, cmty, F //6145D (BBy)  
 7125% GUINEA R Conakry 0635 FF, ID, drums & cymbals, G (NM)  
 7145 ETHIOPIA BTLF \*0300 langs, requesting reports (MAF)  
 7155 JORDAN Amman 2255-2301\* AA, talk, NA, F (TW)  
 7170v N CALEDONIA ORTF 0620-0630 FF, ID, US folk mx & pops, G (RWP)  
 7195 INDIA AIR Delhi 1548 EE, cmty, F //6145D (BBy)  
 7210 W IRIAN RRI Biak \*2104 Indo, mx interlude, loc ID, F (BBy)

7220t SAUDI ARABIA 2250, chants, noisy fq, weak (RWP) //11950,9720, 5992,5390SSB (BBC MS) 3 sources give 3 different sites (Ed)  
 7233+t INDIA AIR 2350 EE, cmtly by W, ARO QRM, het 7235 (ECS)  
 7234v NIGERIA ECSBS-Enugu 2131-2200 EE, pops, TC, nx, P (BBy) 0509 EE, nx, M ancor, G (RWP)  
 7235 AUSTRALIA RA 1515 EE, IS, ID (RFB)  
 7240 NORWAY NRK Tromsø \*0500 Norwegian HS, IS, FP w/ARO QRM (RWP)  
 7245+4 ANGOLA Em Oficial 0600 PP, P w/QRM (BB)  
 7280NF AUSTRALIA RA 2119 EE, pops, IDs, F (BBy) RA lists 7285 ex-9590, so apparently moved down 5 to avoid QRM de Tokyo (below) (Ed)  
 7285 JAPAN NHK HS 2 \*2030 JJ, IS, P (BBy) Tokyo QTH to 1000\* (HMa)  
 7285 POLAND PR \*0300 EE, ID, cmtly, mx, G (RK)  
 7293 MONACO TWR 0716 EE, ID, rel px, G (NM)  
 7294+4 MALAYA RM-KL 1030 EE, 1t western mx, //4985, 9665, F (BB)  
 7295 SPAIN R Liberty 0155-0200 RR, ID, talk by M&W (GLD)  
 7300 USSR RM 2008-2030 CC, ID, IS, over Tirana (BBy) Was \*2030 (Ed)

7300 - 9500 kHz

7416 CAMBODIA SVN Liberation R 1055-1100 VV, mx, ID by M&W, nx (CC)  
 7470 CHINA RP 1120 Esperanto, rev mx, "Int" 1127 Su (CC) I wonder how many people listen to Esperanto programs?!? (Ed)  
 7479 LAOS VoPathet Lao 1105 Laotian, mostly mx, ID? 1200 (CC)Cf6199.  
 7500 AUSTRALIA VNG 1120, pips, G (CC)  
 7504+6 CHINA RP HS 1 1115 CC, talks, F (CC)  
 7520t CHINA New all-opera stn used as jammer, 1037-1110 CC, Chi rev operas only, strong over "Fighters" cland, cf 6125v (BBy,LM)  
 7520 CLANDESTINE (USSR) "Fighters" \*1045-1051\* CC, IDs, "Int", now useless under above newfangled jammer & old jammers (BBy,LM)  
 7545v N VIETNAM VoV 1110, talks, G (CC) Laotian //10150v,7080,4683 (BBC MS) I presume the full BBC MS VoV sked is in this LN (Ed)  
 7830v CHINA RP 1855\* RR, CC mx, ID, "Int" (BBy)  
 8195 CHINA Fukien Front \*1000-1130\* Amoy/CC, M talk, new time(BBy,LM)  
 8630RF LIBYA Tripoli 2215 AA, talk by M&W, CW QRM, P (MD) ex-8400a (Bernard Chenal, Mulhouse, France)  
 9304 ESPIONAGE \*1900-1906\* EE, Eu vocals to 1905, then W reading "Count zero, zero, zero" thrice, then "end", jammed, F (BBy)  
 9360 SPAIN RNE 2345 SS, US pops, SS mx (EH) \*2200-0400\* //15145, 11775, still 50 kw, also \*0000-0600\* 9520, \*1100-1300\* 15145, 11775, \*1300-1500\* 17805, \*2000-0400\* 15365,11800 CanIs (BBC MS)  
 9410 ENGLAND BBC 0135 lang, G (WG) England presumed, altho a few BBC tx are in Scotland per BBC WRC (Ed)  
 9480 ALBANIA R Tirana 2258\* FF, IS (CC) //7065 (BBC MS)

31 Meter Band

9505v SUDAN Omdurman 1710 AA, talk by W, P w/QSB (MD)  
 9505 DOM REP RTVD 2300 SS, rel svc (AHR) 0435 SS, SS mx, IDs, G (CC)  
 9509+RF N CALEDONIA ORTF 0700-1100\* FF, drama, NA, F (BB,NM)  
 9510 ALGERIA RTVA 2200 FF, talk on Cuba, FG (AHR) to530-0700 FF (NM)  
 9510NF W GERMANY DW-W 2100-2200 EE/As, test under RTVA, P (BB)  
 9510 ENGLAND BBC 0430-0445 FF, ID "Ici Londres", nx, IS, cmtly, also 0515-0530 FF, LL (NM)  
 9510 ASCENSION IS BBC 0145 EE, cmtly, G (WG)  
 9515v N KOREA Cf May LR-8. Is KCBS \*0900 RR, IS, ID, nx, mx (CC)  
 9515 MEXICO LV de Lat Amer 1403-1420 SS, ID, nx, mx, //15160(AAM,DJ)  
 9520 FRANCE ORTF 0600 FF, mx, F (CGu)  
 9525 S AF RSA 0530 EE, nx, P (CGu) .(RBO)  
 9530 JAPAN NHK 0942 JJ/LA, new time \*0945-1145\*, IS, ID //9605,11780  
 9534+4 ANGOLA Em Oficial 0545 PP, talk, Eu mx, F (BB)  
 9540 N ZEALAND RNZ 0644-0800 EE, nx, mx, medical px, FG (JPR,RD)  
 9545 W GERMANY DW 0435 EE, nx, cmtly, mx, FG (RK,CGu)  
 9545 GHANA RG 2126-2145, 2206 EE, TC, ID, mx, G (MN,RD)  
 9550 FINLAND OYA 0600-0630 Finnish, //11755, P (BB)  
 9550 BELGIUM RTB 0050 EE, "Belgium Speaking", G (EH,KH,CAW,MN,DJM)

- 9570 AUSTRALIA RA 1329 EE, IS, ID, kookaburra bird, P (JWP)  
 9572½v CHILE R Portales 1057 SS, ID, jingle, rev tlk by M, G (RWP)  
 0130 SS, SS mx, weak, ID (RBO) Tx wandering at s/on (Ed)
- 9575RF ITALY RAI 2135-2155 GS ex-6050 //7275, G (BB) 0100 EE, nx (JPR)
- 9580 AUSTRALIA RA \*1115-1300\* EE/ECNA, but //11710 only \*1115-1215\*,  
 "Waltzing Matilda", G (WFH,CAW) \*1115 for some time (Ed)
- 9581½ NICARAGUA R Mar 1030 SS, hrd w/difficulty, QRM, tnx to Calkin,  
 250 watts (ECS) If this is the one hetting RA, it varies (Ed)
- 9583v PHILIPPINES Vo the Philippines 0735-0800, 0903, 0920-0930, 1000,  
 1030 EE to 1045 //11950, Malolos annced QTH, pops, M ancr, IDs,  
 talks, wandering tx (RBO, BB, LM, LKM, DJ, MAF) \*0900, off 0735-0800  
 (BBC MS) Test? Is 0735-0800 still hrd, Richard? (Ed)
- 9588½t JAVA RRI Djakarta \*1001-1030 lang, quasi-Oriental NA & mx, no  
 readable ID, but gone from 6/7 at this time, but strong carrier  
 noted from \*1030a-1135 here, so could be undermod RRI FS (LM)
9590. NETH ANT RN 0250-0320\* SS, mx, talk, G (WG)
- 9595 JAPAN NGB 1000 JJ, nx, E (LKM) 1146 JJ, M talk, FG (AAM)
- 9600 BLACK CLANDESTINE (USSR) "Sparks" 0951\* GC, W talk, F (GLD)
- 9605NF JAPAN NHK 0945-1145 JJ/PP/SS/LA ex-15105 //9530, 11780, F (BB)
- 9615 MORROCO RTVM 0130 AA //11735v, F (BB)
- 9620NF UNITED ARAB AMIRATES Abu Dhabi 2230 AA, instr mx, vocals by W,  
 under Belgrade 2230, DW 2245, Prague 2255 (ECS) 0355-0403 AA FS,  
 M talk, no break 0400, no ID readable, P mix EE-lang stn, lost  
 under RTB carrier 0403, ex-9695v (LM)
- 9620NF BELGIUM RTB \*0428-0530 DD HS, IS, nx, pops, new svc/time (LM)
- 9640 S KOREA VoFC 1130\* EE, choral mx, ID, PF (AAM)
- 9640NF W GERMANY DW 2100 SS, nx, mx (EH) 6120 only (BBC MS) Test? (Ed)
- 9645NF E GERMANY RBI \*2315-0300\* langs/LA //9500, 9720, 11785 (BB, BP, CC)
- 9650RF E GERMANY RBI \*0330-0415\* EE/WGNA //11825, 11970 (CGU, BB, CAW)
- 9650 GUINEA R Conakry 0345, lively mx, reg chorals, cora mx, G (RWP)
- 9660v ANGOLA Em Oficial 0545 PP, talk before RTVA on, G (BB)
- 9660 VENEZ R Rumbos 0500\*, full ID, NA (GLD)
- 9660 PORTUGAL IBRA via RTE 2048-2059\* EE, times by W, IS, then lang,  
 //5995 (RD) You heard 5995? (Ed)
- 9665 USSR R Kiev 0354\* EE, ID, E (RK)
- 9680NF FRANCE ORTF 0530 EE/Af, ex-9700, nx, also 2000 FF, over ABC (BP)
- 9685 ALGERIA RTVA 1730-1750 AA HS, AA mx, FG (MD) AA since 1/72 (Ed)
- 9690NF MALAYSIA BBC WS 1030-1040 EE, G over VoFC jamming (BF, BB)
- 9690NF W GERMANY DW-W 2300 GG, test, F (CC)
- 9695 BRAZIL R Rio Mar 0215, sports, P but louder than RSA 9695 (MAF)
- 9700 BULGARIA R Sofia 0345, \*0425 EE, ID, nx, mx, GE (RK, WG)
- 9700NF RWANDA DW 0630-0700 Hausa/Af ex-9690 //11905, F (BB)
- 9705 INDIA AIR 1305 lang, weak w/mx (MN)
- 9705 MEXICO RM 1530, LA mx, FG //15125 (AHR) 0155, oldies, G (JWP)
- 9710 ECUADOR HCJB 0930 SS, ID, rel px, mx, G (NM)
- 9715 NETH ANT RN \*0500-0620\* EE/WGNA //11730B, DX, E (CGU, WG, FO)
- 9715 PHILIPPINES FEBC 1000 RR, IS, ID, rel px, //11890 (RBO)
- 9720NF E GERMANY RBI 2315-0215 to LA, //9500, 9645, 11785, G (BB)
- 9725 PORTUGAL RFE \*0357 GS, IS, clear to 0402 (RBO)
- 9725 ETHIOPIA ETLF 0400 EE, ID, nx, P (KH)
- 9727NF W IRIAN RRI Sorong 0433-0445 Indo, vy unstable, P (BBy)
- 9735RF ENGLAND BBC 2300-2330 EE/Eu, under DW, P (BB)
- 9745 W IRIAN RRI Djaapur 0412-0432 Indo, loc ID, C&W mx, F (BBy)
- 9750 CHILE Soc Nac de Minería 1143-1200 f/o, mx (MAF)
- 9755 SEYCHELLES FEBA 2206-2234 EE, nx, ID, then lang, QRM (FO)
- 9769 ZAIRE RTVN Kinshasa 2035, 0544 FF, talks //11719, F (BBy)

## 9775 - 11700 kHz

- 9780 ALBANIA R Tirana 0018 & \*0630 EE (WT, RK) R Peking rly 0302 (WG)
- 9790 ALBANIA R Tirana 0100 SS, IS, ID, was Albanian to 0057\* (CG)
- 9805 ARE R Cairo \*2200 EE, bells, ID, orch mx, FG (JWP) \*2145 EE  
 (BBC MS) Seems like new FS times recently (Ed)
- 9860RF CHINA RP 1710 Hakka/As ex-5162 //11630RF ex-6825, 15045NF ex-  
 9900, ID, G (BBy) All fqs list Hakka, Bob (Ed)

- 9950 CHINA Foochow (2x4975) 1200 CG HS //4975,2340, talks, F (BBy)  
 9985v CAMBODIA VNUFK 1155 Khmer //10080, mx, W ancr (ECS)  
 10000 HAWAII WVVH 0636 EE, TC by W thru WVV (RD) 0525 (CAW) 0600-1400 under WVV (FO)  
 10043v N VIETNAM KCBS via VoV 1215, talks (CG) \*1200-1228\* EE/SEA //12027v, 1240 MW (BBC MS)  
 10150v N VIETNAM VoV 1200\* ID, NA (ECS) Thai\*1130-1200\* //7545v, 7080,4683, also \*1200-1230\* Thai, \*1230-1300\* Indo (BBC MS)  
 10205RF CHINA CPA \*1100-1200 CC ex-7526, "EIR", IDs, dict nx (BBy,LM)  
 10214-28v CAMBODIA SVN Liberation R HS 1152 VV, VV songs, G (DJ)  
 10498 UNID Indochinese in Laotian?, chimes IS, ID by W sounds like (to Ed from Bob's tape) "Hoom im Ham im dam Hoose Hinifah Fayilah" (BBy) Time? (Ed)  
 10696 UNID Espionage? 1125 lang, dict (numbers?), VV-like lang (BBy)  
 10726 ESPIONAGE (TAIWAN?) "Number Four Number One" station \*0800-0844\*, \*0000-0302\* \*1000,\*1100,\*1400 CC, W w/dict, IDs,mx (BBy)  
 10865NF CHINA RP 1125\* SS, ID, P (BBy)  
 11100 CHINA RP 2058 CC ex-3830, Taiwan Svc, new time, F (BBy)  
 11330 CHINA RP HS 1 2115 CC, new time, F (BBy)  
 11347v ESPIONAGE (TAIWAN?) "KOS" \*1116,\*0130-0325,2342\*,1107\*,1138\*, 1300-1342\* CG, not //10726, W w/dict, CG pops, IDs (BBy,LM)  
 11378NFv CHINA RP 1145 II ex-11675 (ex-9440), IDs, nx (BBy,LM)  
 11620 INDIA AIR Delhi 1845 EE, talk, local mx, F (AEM)  
 11630 ARE R Cairo 0115 FF, mx, anns, G (JPR)  
 11651NFv BANGLADESH RB 1750-1800\* EE, GOS, press roundup, G (BBy)  
 11680RF ENGLAND BBC \*1650-1655\* Maltese, F (BB) 0400-0545\* AA, nx (CC)  
 11695v CLANDESTINE (BULGARIA) Courier of Iran 1721 Farsi, nx, G (NM)

## 25 Meter Band

- 11700RF E GERMANY RBI 1915-2015 AA //11900NF, F (BB) .CGu)  
 11705 SWEDEN RS\*0330-0430\*EE/Swedish, IS, ID, nx, SCDX (CAW,DJM,JWP,  
 11710t N CALEDONIA ORTF\*0600 FF, "animal call IS", ID, G (KH)  
 11715 SWITZ SBC 0200-0245,0345,0440 EE/SS/GG/II/EE (CG,CGu,WT,MRL)  
 11720 VATICAN VR 0056 EE, story about Copernicus, G (WT)  
 11720a BRAZIL R Nac Brasilia 1030 EE, F w/QRN (BB) Cf 15449 (Ed)  
 11725 PORTUGAL? RFE 0357 Bulgarian?, IS, ID, jammed (RBO)  
 11725NFv VENEZ R Nac 1404, clas mx (JDT) Was 11710v for a while (Ed)  
 11725 AUSTRIA ORF 0200-0400 to LA, QRM de Bonaire, F (BB)  
 11725 VATICAN VR 0100 EE, ID, into FF 0110 (CAW)  
 11735v YUGOSLAVIA R Belgrade 0100-0130 SS/LA //9620, F (BB)  
 11737NF CHINA (Fukien Front hrd here from Bob's tape - Ed) 0000 CG, clear usual ID by M, noted 2347-0020 f/o, P (BBy) Not listed by BBC MS and is rather high for PLA, but ID is unmistakable, "Chungkuo Jenmin Chiehfang Chun, Fuchien Chien Hsien Kwangpo Tientai" following the usual fanfare and pips (Ed)  
 11740 SRI LANKA (as in "Tree Sanka" - Ed) CeBC \*1100 EE //17830, "Hello and Welcome", mx, travel info (DJ)  
 11740 VATICAN VR 2000 Latin/Eu, F (JPR) 0630 Lith, IS, ID?, mx (RBO)  
 11750 MALAYA BBC WS 1500-1615 EE/WCNA //9580, F (BB) 1805 EE/Eu (HS)  
 11760 AUSTRALIA RA-D 1015 EE, over RHC, P (BB)  
 11765 AUSTRALIA RA 0759 EE, ID, mx, E (RK)  
 11765v BULGARIA R Sofia 0100 SS, F (BB)  
 11780v MOZAMBIQUE RCM 1800, 0630 EE, pops, ads, ID, F (BBy) 0600 EE/lang (Afrikaans?-Ed), western mx, Lucky Strike ad, RNZ gone(RBO)  
 11785 NETH ANT TWR 0350 EE into Polish, IS, F (MN)  
 11790NF S AF SABC \*0730 EE Svc, QRM, P (BB)  
 11790NF SWEDEN RS 1920 Swedish/ME ex-11705, G (BP)  
 11795 W GERMANY DW 2120 AA, talk by M, no sign of Libya (MD)  
 11795 ETHIOPIA ETFLF 0255-0345 FF/lang, EE IDs, rel px (KH,CG)  
 11800v SRI LANKA CeBC 1210 Hindi, Indian mx (CC)  
 11800 CANARY IS RNE 2200 SS, ID, mx (WT)  
 11800RF ITALY RAI 1945 EE/Eu, G (MD) 2025-2045 EE/ME ex-6050, P (BB)  
 11805 BRAZIL R Globo 2339 PP, ads, PP mx, IDs, P (AAM)  
 11810 ALGERIA VoPalestine, Vo the Palestinian Rev\*1830 AA (AEM)

- 11810 ITALY RAI 0100-0140 EE/FF/II, nx, mx, FG (CAW,WT,JWP,WWS,CGu)  
 11810 INDIA AIR GOS \*1330 EE, nx, cmt, FG (JPR)  
 11815 CUBA VoVietnam relay 0405 EE //11930, cmt, CG)  
 11815 JAPAN NHK 1425 EE, talk (JDT) 1610 EE, cmt, F (CGu)  
 11815 POLAND PR 0225 EE/Polish, RAI QRM (JWP)  
 11815 NETH ANT TWR 0030 EE/As, FG (JWP)  
 11820v MEXICO El Heraldo de Sonora 1800 SS, F (BB)  
 11820RF E GERMANY RBI 0515-0615 AA ex-15270 //9730, F (BB)  
 11825 E GERMANY RBI \*0330-0415\* EE/WCNA //9650,11970, G (CC,RBO,BB)  
 11825RF KUWAIT RK 1730,\*1900-2100\* AA/EE //15125 ex-11845, moved to avoid CBC, F (WWS,BB) Bahrain apparently a mirage (Ed)  
 11825 TAIWAN BED69 \*1510 CC, F (LKM)  
 11830 USSR RM 2000-2030 EE/UK, interesting px, F (BB) Yes, BBC MS & FBIS learn lots from the unique slant of each RM/FP&P svc (Ed)  
 11835 HAITI 4VEE de 4VEH 1200 EE (WWS) 1640-1700\* (MAF,NM) 0103(ARN)  
 11835t SUDAN Omdurman 1750-1810 f/o AA, chants, nx, weak (HS)  
 11850 INDIA AIR 1130 EE HS, nx, new time, G (BB)  
 11850 USSR RP&P 0420 SS, ID, talks (CC)  
 11850v GHANA RG 2000-2015 EE, new ID "The Voice of the Revolution", talk, mx, G (WWS, MRL)  
 11855NF MONACO TWR \*0630 RR, IS, F (BB)  
 11855NF CZECH RP \*0700-0755\* EE/ANZ ex-11780 //6140NF/En,21700,21690, 15310 (all to ANZ) (BP,BB) They decided against 11990? (Ed)  
 11865 CANADA DW relay\*0200-0410\*GG //9625, E, both fqs fed by 6100 as YVTO pips hrd in background! (BB) Seems regressive when DW feeds the other relay sites via SSB; wonder why? (Ed)  
 11865RF PORTUGAL DW 0415 Bulg,0445 Rom ex-6010 //9615,7285, G (BB)  
 11870 INDIA AIR 1130, Variety Px, film mx, G (BB) Bombay list (Ed)  
 11875v NICARAGUA YNN 1400 SS, irr, tx probs? (CC) I think politics rather than circuitry is the culprit; seems regular now (Ed)  
 11890 PHILIPPINES FEBC 0909-0959 EE, rel px, P w/QRM (FO)  
 11895NF FRANCE ORTF \*0000-0100 PF/Brazil ex-11920?, over AIR (BP)  
 11900v MALAYA VoM \*1100 SS/SEA, chimes IS, W ID, talk, 6 pips, mx (RBO,BB) 1145t CC, SEA mx, P (CC) Here \*1100-1300\* (BBC MS)  
 11900 USSR R Kiev 0033, DX, F (WT) 0345-0355\* EE (CC)  
 11900 TUNISIA Sfax 0515 AA, chants, F (CC)  
 11900RF S AF RSA 1000-1050 EE/Pac ex-15200 //17820,15220, F (BB)  
 11900RF E GERMANY RBI 1915-2015 AA/ME //11700, P w/QRM (BB)  
 11904x THAILAND RT 1000-1015 Khmer, mix jammer for BCC tx, F (BB)  
 11905NF W GERMANY DW-W 1910-2100 AA //11795, test, G (BB)  
 11905RF ITALY RAI 2000-2020 Turkish ex-7235 //9575, P w/QRM (BB)  
 11910 MALAYA BBC 1645 EE, LL, G (LKM)  
 11910 HUNGARY RB 0225 Hung, sports, G (ARN) \*0400-0412 EE (KH,CAW)  
 11920NF SPAIN RNE-N 1630 SS/LA, new sked, G (BB) Cf 9360 (Ed)  
 11920 PHILIPPINES FEBC 1200-1352 EE, ID, rel px, PF (WWS,AAM)  
 11920 USSR RM 0225 SS, ID, cmt (JDT)  
 11920 IVORY COAST Abidjan 1900-2000\* EE, nx, mx, ID (WWS,MRL)  
 11920 FRANCE ORTF 2030-2100 FF, M&W talk, G (FO)  
 11925NF NETHERLANDS RN\*2130-2250\* SS/Am ex-11945 //15425, F (BB)  
 11925 UZBEK SSR R Tashkent \*1200 EE, IS, ID, mx (WWS,MN)  
 11925NF NIGERIA VoN \*1800-1930 EE //15185, F (BB)  
 11940v ROMANIA R Bucharest 0320 EE/NA, F (MN) 0435 EE, nx, G (RK)  
 11940 LIBERIA ELWA 2015-2057\* EE, nx, rel px, PF (JPR,MRL)  
 11950 LIBERIA ELWA 0656-0702 EE, rel px, G (RD) (BB)  
 11950v PHILIPPINES Vo the Philippines-Malolos 1015-1045 EE //9583v/  
 11950v S VIETNAM VTVN 1054 VV, talk by M, QRM RHC (DJ) (JN)  
 11955v LEBANON Beirut 0215 AA,\*0230-0300\* EE/NA (CC,JDT,RD,MRL,ARM,/  
 11955 SEYCHELLES FEBE 1740 EE, rel px, mx, F (HS,AAM)  
 11960NF JAPAN NHK 1930-2100/En //15240NF, P (BB)  
 11965 RWANDA DW 2030 GG, G (JPR)  
 11970 E GERMANY RBI 0330-0415 EE/WCNA //11825,9650, F (BB)  
 11975NF E GERMANY RBI 1700-1745 GG/ME ex-11700, F (BB)  
 11975 LIBERIA ELWA 0755-0805 EE, rel px, ID, into FF, G (WG)  
 11975v GRENADA RG 0106-0210\* EE, BBC nx, echoing, ann //3300 (MN,JDT)

11975 USSR RP&P 0115-0130 PP, ID, talks, into SS (CC)

11975 - 15100 kHz

11980 USSR R Erivan 0329, IS (MN)  
 12000 AUSTRALIA VNG 0725-0805, pips, under Armavir (RFB,TJ)  
 12005 ARE R Cairo 2250\* AA //9475,11630, new s/off time summer (LM)  
 12005½ CAMBODIA VNUFK 0031-0100\* Khmer //9988v, talks; P (BBy)  
 12040 USSR RP&P 0400 SS, IS, ID, //12020,11980,11850 etc (CC)  
 13300v CLANDESTINE (VENEZ) R Buzkadi 2245-2300\* SS, talks, mx, then  
 13315 2255 EE, asking for money (CC) EE irr, when they're broke? (Ed)  
 13542 PORTUGAL EN 2245-0005\* PP/Brazil //11840, LM, IDs, nx, E, was  
 15315 tx off exactly 2 MHz, but returned to 15315 \*0008 (LM)  
 NETHERLANDS RN via PTT Amsterdam 2044\* SS, nx to Bonaire for  
 rebroadcast, then VM, G (LM) RN won't erect its own feeder fa-  
 cilities. "We use PTT facilities to feed...and only the PTT  
 is allowed to use fixed fq band...in the Netherlands" (Harry  
 van Gelder, RN)  
 14670 CANADA CHU 0618 EE/FF, IDs, time anns, P (KH) 2312, G (RFB)  
 15006v N VIETNAM VoV \*10257, IS, SEA mx (RWP) Unlist BBC MS (Ed)  
 15012v N VIETNAM VoV 1225 lang, talks to 1230, then mx, P (CC) Again  
 unlist BBC MS before 1230, but list JJ \*1230. Pse let Dan F or  
 myself know of any other changes to the VoV BBC MS sked/LN(Ed)  
 15030 CHINA RP 1945 EE, mx, talks, P (LKM)  
 15080 INDIA AIR Bombay 1735 EE, chant, P (RWP) 2330 mx, P (JPR)  
 15085 ARE R Cairo 0015 PP (EH) (BBC MS)  
 15092 N VIETNAM VoV (2x7546) 1019-1032, talks, VV ID (BBy) Khmer/

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15100 USSR RM 2140-2159\* FF/Algeria (JDT) //15350,15110,11735,9530,  
 1493MW (BBC MS)  
 15105 JAPAN NHK \*1600,\*1700,1730,2100 EE nx (JPR,RWP,CAW,CGu,MN)  
 15105 BRAZIL R Rural Brasileira 2201 PP, LM, ID, nx, P (AAM)  
 15105 ASCENSION IS BBC 1920-1931 FF, LL, ID, then into lang (RD)  
 15110 MEXICO RM 2350 GG, ID, W w/pops, weak (AEM) Cf 15125 (Ed)  
 15110 VATICAN VR \*0000,\*0028 SS/LA, IS (EH,JWP) Eric, pse use "a"  
 for approximated fqs, tnx (Ed)  
 15120 POLAND PR\*0200 EE/NA, nx, features (CC) 0310, pops, G (MN)  
 15120 FRANCE ORTF \*1730-2315 FF FS/ECNA, "Ici Paris", LM, IS, pops,  
 talks, ID, G (JWP,JDT,CAW) to 2355\* w/mostly o'seas px (Ed)  
 15125 MEXICO RM 0105 SS, GG ID, clas guitar mx, FG (DW,DJM)  
 15125t TAIWAN BED60 \*1800 EE, IS, W talks, P (DJM)  
 15125 TAIWAN R Liberty. (also BED60) 2000 RR, IS, ID, then jam (RBO)  
 15125RF KUWAIT RK 1730 AA //11825, F (BB)  
 15135 FRANCE ORTF 2355\* FF (EH) //15120 (Ed)  
 15150v N KOREA KCBS 1345 EE, ID "R Pyongyang", G (MN)  
 15150 W GERMANY DW-W 0600-0630 EE/AF //15275, test, F (BB)  
 15160RF MEXICO LV de Amer Latina 2000 SS, sometimes 15175 (CC)  
 15160 AUSTRALIA RA 0330 //15240, clas mx, F (MRL)  
 15165 DENMARK RD \*2200 Danish, but EE ID, G (AHR) 1917\*/Af, F (RD)  
 15170 TAHITI RT \*0300 Tahitian, IS, ID, pops, Poly mx, FF rel px Su,  
 FF ID, G (WWS,JWP) QRM de RP/jammers; cf following item (Ed)  
 15170v CHINA RP\*0400-0430 RR, IS, ID, hetting Tahiti, FP (BBy)  
 15175 NORWAY RN 1600-1630\* EE Su, DX, G (JPR) 2221 Do (RK) 0020 (EH)  
 15176v MEXICO LV de Amer Latina 1830 SS, G (BB) Cf 15160 (Ed)  
 15185 FINLAND OYA \*1800,\*2300-2330 EE (JPR,RK,WG,DJM,RBO,MRL,MN)  
 15185 CLANDESTINE (ROMANIA) R Ind Spain \*2005-2025\* SS Tu-Sa (LM)  
 15185v NIGERIA VoN 0700 EE, ID, nx, Af mx, FG (WG,LKM,BBy)  
 15190 ETHIOPIA ETLF 1600-1625 Parsi, F (BB)  
 15190 CONGO R Brazzaville 1100 EE, P w/QRM (MN)  
 15195 TURKEY VoT \*2200-2230\*EE //9515 (GS,MN,LKM,JPR,RK,RD,BB,WWS)  
 15210 USSR R Vilnius 2245 EE, ID, nx, lbx (CAW,RK)  
 15210 USSR RM 2330\* EE/NA (JDT) //988MW (BBC MS) ?!?! (Ed)  
 15210NF VATICAN VR 2250 EE //11705,9615,7235/Philippines, test (BP)  
 15216 TUNISIA RTT 2200,0505, M&W annrcs, AA chants, AA mx (EGS,LKM)

- 1522ORF NETH ANT RN\*2130-2250\* SS/Am, new svc, G (BB)  
 15225NF CHINA RP \*1200 lang, IS, F w/QRM (BB)  
 15240 ITALY RAI 0110 SS/LA, ID (ARN) //11905,9710 (BBC MS)  
 15240 AUSTRALIA RA 0550 EE, oldies, anns, G (WWS)  
 1524ORF SWEDEN RS \*1600-1700\* EE/Swedish/ME ex-11930, F (BB)  
 15245v ZAIRE R Kinshasa 0330 lang, Af mx, anns, G (MRL)  
 15250v ROMANIA R Bucharest 1328\* EE, lbr, ID, abrupt off, GF (WG)  
 15260 ENGLAND BBC 0105 EE WS, play, E (RK) New site, ex-Ascen (Ed)  
 15260 JAPAN FEN 0730 EE, pops, ads, wx, F (LKM)  
 15260 USSR RS Atlantika 1230 RR, IS, nx, G (ARR)  
 15265 AFGHANISTAN RA \*1800 EE, nx, mx, P (WWS)  
 15275 W GERMANY DW 2100 EE, FG (JPR)  
 15275 POLAND PR \*2000 EE, piano IS, lost under DW (DJ) //17865(BBCMS)  
 15280 HAITI 4VWI de 4VEH 0015 EE, rel px, kids sing hymns, F (FH)  
 15285 CUBA RHC \*2050-2145\* EE/LA, G (BB) \*2300 PP (RFB)  
 15285NF E GERMANY RBI 1000-1400 AA/ME ex-21500 //15240,11700,9730 (BB)  
 15295 SWEDEN RS 0030-0200 EE, SCDX, pollution cnfc (JPR,WWS,FH)  
 11805 unheard (FH) For seasonal edges only (SCDX)  
 15300v CUBA RHC 1205-1235 SS/LA not //15285,11760 to 1230, then //  
 from 1230, suggesting 2 slightly different SS px to LA (LM)  
 15300 JAPAN NHK 1300-1315 EE, nx, cmty, P (JPR)  
 15305 SWITZ SBC 0000 FF, pips, nx, F (LKM)  
 15310v GUINEA R Conakry 0720-0800 FF, talks, march mx, F (LKM) 0930  
 lang, chants (CC)"Spies" "confess" here during b'cast trials(Ed)  
 15310 SWEDEN RS \*1400 EE/ECNA //15240, nx, press review, G (FH)  
 15315 ITALY RAI 0140 II, nx, P (GGU)  
 15320 NETH ANT RN \*2300-2315 SS, IS, ID, nx, mx, G (WG)  
 15320RF W GERMANY DW 1600-1810 GG/ME ex-9655 //11795, F (BB)  
 15320 AUSTRALIA RA \*0100 EE/WCNA, F, fading by 0130 (JPR)  
 153344v S KOREA VoK 0630-0700 EE/Eu, P (BB)  
 15336NF LUXEMBOURG RL 0203\* EE //6090 (ARN) Must be reactivated 50 kw  
 tx formerly used on 6090 before it went to 250 kw (Ed)  
 15340 PORTUGAL EN 0448-0500 PP //17740,11935 (RBO) 0700 PP/Af (BB)  
 15345v GREECE HNBI \*1930-1945 w/EE 1940-1945, flute IS, nx, P (WWS)  
 Is this still here for summer? That it was to have moved (Ed)  
 15345 KUWAIT RK \*1600-1900\* EE (WWS,HS,MD,MN,RD) 1920 EE (AEM)  
 \*0400 EE, F (WWS)  
 15350 USSR RP&P 1430 EE, nx, G (JPR,BB) To Af //21645,17850,17765,  
 17720,15415,15265,15140,12035,11920,11775,11745,9785,9665(BBCMS)  
 15355 AUSTRALIA RA-D 0810 Indo, pops, talk //15320, G (LKM)  
 15360NF USSR RM 1810 FF/Eu //15385NF, nx, ID, F (HS) Add to BBC MS (Ed)  
 15360NF CUBA RHC 1810-1855 AA/Med ex-15190 (BB,JDT) //17885 now (Ed)  
 15365NF CUBA RHC 0630-1045 langs/Med ex-11715, G (BB)  
 15365 CANARY IS RNE 0225 SS, mx, IS, F (RD)  
 15385 PHILIPPINES FEBC 0830 EE, rel mx, talk, G (LKM)  
 15395 AUSTRALIA RA-D 0800 EE, "Stock Exchange", F (BB)  
 15400 IRAQ R Baghdad 0315-0400 AA HS, chants, ID, 7 bells (MRL,CC)  
 15410 RWANDA DW 2300 GG, ID, E (MN)  
 15410v ALGERIA VoPalestine, Vo the Palestinian Rev, new name ex-Vo  
 the Storm, \*1831-1930\* AA, ID now "Saut ath-Filistine,Saut  
 ath-Thowrah al-Filistiniyah" (LM) New name also applies to  
 former VoPal Rev (R Baghdad), VoStorm (R Cairo) & 928 clandes-  
 tine MW tx (BBC MS) All stns (now same name) run by PLO (BBCMS)  
 15415 BRAZIL RC Ribeirao Preto 0000-0100 PP, futebol to f/o, F (CC)  
 15420 SPAIN RNE 2155 SS (ECS) \*2130-2330\*/Seamen, no // 's (BBC MS)  
 15420 VATICAN VR \*0050-0105\* EE/ECNA //11720,9615 (BB,LKM)  
 15425 AUSTRALIA ABC Perth 0710 EE, racing, mx, G (RK)  
 15435t TANZANIA RT 1846-1900\* Af lang, chants, Koran, Jesus hymn (DJ)  
 15440 PHILIPPINES FEBC 1530 EE/India, G some days only (AHR)  
 15440 USSR RM (Riazan list) 1820 FF/Af, VoA QRM (MD)  
 15445 SPAIN R Liberty 0400 RR, IS, ID thru heavy jamming (CC)  
 15449 BRAZIL R Nac do Brasilia 2230,0125-0201,0435,0545 EE/Eu, new  
 experimental PS, Braz mx, W IDs, wants rpts, usually F w/QRM  
 & weak, seems under list 100 kw, also 11720 (CC,ARN,RBO,LM)

15450 - 17700 kHz

- 15455 USSR Mayak HS relay \*1500-2130\*RR, also Rodina (AHR,CC)  
 15483v CLANDESTINE (ROMANIA) R Free Portugal 1830 PP, IS, F (AHR)  
 15499<sup>1/2</sup> CHINA (Inner Mongolia) \*0130-0215\* Mongolian, "EIR" (HS version), CC RP ID ("Chungyang JKT"), into Mongolian, 0213 "Int", tent ID "Uber Radyo, Aratin Mongolin...", F (BBy) //6975,4068; or 3900? (Ed)  
 15505 USSR Mayak HS 0500 RR, IS, ID, mx (CG)  
 15525<sup>RFv</sup> PAKISTAN RP 2015 EE/UK, mx, ID 2030, F (CG,HS)  
 17043v ESPIONAGE (TAIWAN?) Pi Si Pi Tu Tientai \*0700-0720a\* CC, CC vocals, IDs, dictation ('#s?'), CW QRM (BBy)  
 17490 CHINA RP 1010 RR? RCDSB feeder, M talk, jammed, P (LM)  
 17530 GUAM NFN 2356, pips (RWP)  
 17580 USSR RM HS 2 1005 RR USB feeder, RR mx, G w/flutter (As?)(LM)  
 17655 ARE R Cairo 1825 EE/Af, LL (EH)

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- 17700<sup>RF</sup> E GERMANY RBI 1550 EE ex-17880, sked/Af \*1530-1615\*(AAM,JDT,BB)  
 17710<sup>NF</sup> SWITZ SBC \*1345 GG/As ex-21605, mix RM (BP) RM in Malayalam // 21460,17860,15295,15210 (BBC MS)  
 17725 ARE VoAfrica, Cairo, 2130 EE, F (JPR)  
 17740 AUSTRIA ORF 0358-0440 GG, IS, IDs, E (RBO)  
 17740 PORTUGAL EN 0440 PP, IS, mix ORF, above (RBO)  
 17745<sup>RF</sup> JAPAN NHK \*0100-0300\*/WCNA ex-21640 //17825,17725,15235 (BB)  
 17745 ARE R Cairo "Vo the Arabs" 1245-1400 AA, ID, IS, mx (CC,JPR)  
 17745 USSR RM 1945 EE/Af, pol talk, F (MD) 8 //1s (BBC MS)  
 17770 N ZEALAND RNZ 0105-0115 EE, sports, MW "2YC"hrd (DJ)  
 17775 ITALY RAI 0349-0410 EE, IS, s/off w/wrong Svc info (RBO,Y)  
 17795 NORWAY RN 2138, EE ID, mx, M talk (JDT) To ECNA (Ed)  
 17795 AUSTRALIA RA 0430-0630 //17820 FF, IS, ID, RAI QRM (RBO)  
 17795 SWITZ SBC 1207 FF, Swiss mx, FF (AAM)  
 17800 VATICAN VR \*1620 EE/Af, G (JPR)  
 17805<sup>NF</sup> SPAIN RNE-N 1430 SS, new sked, G (BB) Cf 9360 (Ed)  
 17815<sup>RF</sup> ECUADOR HCB 1605-1624<sup>1/2</sup>\* RTTY/NA HQ, G, then RR \*1625, F (LM) 2100-2130 GG/Eu ex-17740 //15300,21460 (BB) Mix RHC (Ed)  
 17815 CUBA RHC 1900-2010 FF & 2010-2140\* EE/Eu, "VoV", nx (BB,LM)  
 17820 TURKEY VoT 1330-1400 EE/As, P (BB)  
 17840 CZECH RP 1740-1755 EE/Af, Af mx, ID, lbx, weak (JDT,HS)  
 17860<sup>RF</sup> BELGIUM RTB 1800-2200 FF/Af ex-11880, G (BB)  
 17870 AUSTRALIA RA 0235 EE/NA, nx, G (CAW)  
 17885<sup>RF</sup> CUBA RHC 1739 FF,2030-2110 AA/Med ex-17855 //15360, G (HS,BB)  
 17890<sup>NF</sup> E GERMANY RBI 1100-1400 AA/Af ex-21600 //17700, P (BB)  
 17900<sup>NF</sup> VATICAN VR \*1620 EE/Af, rel nx, P (JDT)  
 17900 USSR Mayak HS relay 0510 RR, mx, IS 0530, ID, nx? (CC)

17900 - 21450 kHz

- 17935v BANGLADESH RB 1215 lang,\*1230-1300\* EE GOS, nx (BBy,AAM,CC)  
 18050<sup>NF</sup> USSR Cf June LR-12. RM HS 1 0940-1059\* RR LSB feeder ex-18455, drama, 6 pips at hour, //15470, F (LM)  
 18080 ENGLAND BBC 1130-1200 VV, F (BB) Grandfather fq like 9410 (Ed)

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- 21470 ENGLAND BBC WS 1740 EE, "Letter from London" (EH)  
 21495 PORTUGAL Vo the West \*1730 FF, mx, to Af, G (EH)  
 21500v CONGO R Brazzaville 0700 FF, "drums" IS, nx, P (LKM)  
 21520<sup>RF</sup> E GERMANY RBI 1315-1400 EE/Af //17825<sup>NF</sup>, P (BB)  
 21570 JAPAN NHK 0830 JJ/Eu, F (BB)  
 21570 NETH ANT RN 1930-1950\* EE, pops, E (LKM)  
 21590v PAKISTAN RP 1348 EE, nx by W, G (AAM)  
 21655 NORWAY RN 1800 EE, "Norway This Week", E (RK) 20 kw (Ed)  
 21670 NORWAY RN 1820 EE, local mx (AEM)  
 21675 FRANCE ORTF 1730 "Inter" FF HS relay, time tones, F (HS)  
 21680<sup>NF</sup> CZECH RP \*1730-1830\* EE/Af ex-21735 (BB) 1535 EE/Af (EH,AAM)

21700 PORTUGAL EN \*0915 PP, P (BB)  
 21705RF MEXICO RM 0155 SS, mx, G (CGu) Must be awfully irr (Ed)

11 Meter Band

25650 ENGLAND BBC 1545 EE WS, mx, talk, P (EH)

All the preceding thanks to these DX-perts:

AAM Al Miller, OH/HRO500	JDT John Tuchscherer, WI/HQ100A
AMM A.E. Martin, England/51J2	JPR Jim Ronda, OH/SX190
AHR Al Reynolds, TN/SPR4	JWP John Perry, IL/GD125
ARN Al Niblack, IN/SX100II	KH Ken Hunt, CA/TO7000A
BB Bill Berghammer, NY/SP600	LKM Larry Marshall, CA/SX190
BBy Bob Bundy, Truk/R530	LM Larry Magne, PA/R4B
BP Bob Padula, Australia/GR100	MAF Marlin Field, MI/SX100
CAW Craig Wicks, MI	MD Mark Duba, VT/SX190
CC Charles Conner, LA/SW4A	MN Mike Nikolich, IL/StRoamer
CGu Ciro Guarducci, BG/HA600A	MRL Max Leonhardt, IN/SB310
CP C. "Pat" Patterson, GA/SX99	NM Nelson Mayne, OH/RCA GR10
DJ Dan Jamison, VA/SW4	RBO Richard Odlin, WA/R4B
DJM Doug McClellan, NM/GR64	RD Rich d'Angelo, NY
DW Dave Williams, OR/75S3C	RFB Bob Bruce, Scotland/ED940
ECS Ed Shaw, VA/SX190	RJK Bob Koziomkowski, NY/DX150
EH Eric Herson, OH/SX110	RWP Ralphus Perry, IL/S85
EU Errol Urbelis, NY/SX43	TJ Tom Jeffrey, OR/HQ100A
FH Fred Heutte, Jr., DC/HQ129X	TW Tom Williamson, ON/HQ180
FO Frank Orcutt, NY/DX150A	WFH William Higham, OH
GLD Gerry Dexter, WI/HQ180	WG Bill Gardner, IN/SP600
GS George Schnabel, NY/SW4	WT Walt Trkula, PA/S120
HMa Hiro Matsuura, Japan/A2515	WWS Woody Seymour, Jr, NG/SX190
HS Harold Sellers, ON/9R59D	Y Glenn Hauser & Gregg
JC John Campbell, Sweden	Calkin, TX/HQ160

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Special thanks again to Ed Ricchezza for helping put together this month's LR!

Alan Thompson of Wales has written an outstanding piece entitled, "BBC Monitoring Service - A Layman Looks at Caversham Park", based on a firsthand tour of their facilities and interviews with their key personnel. I strongly recommend it to anyone seriously interested in the field of professional radio monitoring and can only wish our own FBIS were as refreshingly open and helpful to newsmen and lay radio aficionados as are their counterparts in Caversham Park. Alan's writeup is 5 IRCs airmail from 16 Ena Avenue, Neath, Glamorgan SA11 3AD, Great Britain. An absolutely first-class job!

Thanks to MRL for the band surveys -- looks FB.

Reception conditions here have been abominable lately. However, they have no place to go but up, so Tropical Band DXers can feast their eyes on the upcoming low sunspot numbers, per Boulder:

The following effective solar activity indices (12 month moving average Zurich sunspot numbers) are for use with the new "Ionospheric Predictions" OT/TRER 13.

	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1972-73	56	53	50	48	47	46	45	44	42	40	38	37

Best 73 de... *50*

FREQ: KCS

## FLASHSHEET

TIME: GMT

AL NIBLACK, EDITOR; 420 Shelby Street, Vincennes, Indiana 47591....DEADLINE 20-TH \*\*

AUSTRIA 21720 Austrian Radio observed to the Far East in EE at 0730, 6/14. (August Balbi)AUSTRALIA RA boasting from Melbourne noted on 9580 and 11710, 1115-1215, signal gud lvl though some fading. (William Higham)...15520 RA noted at 0427 with IS and ID in FF, S/on at 0430. (Craig Wicks)AZAD KASHMIR (FLASH-FLASH) Alan Thompson has received a card QSL for last December reception of Azad Kashmir R., after many reports and follow-ups. Replied with Pak stamps, V/s undecipherable, "for Regional Director, Azad Kashmir Radio, Muzaffarabad," bearing station stamp and serial number. (BADX-Thompson via Don Jensen)...My registered report to Azad Kashmir Radio, Muzaffarabad, was returned to me as undeliverable at this address! (Bill Whitacre)BANGLADESH In a letter just received RB, Dacca, states: "We have changed the frequency from 17935 due to interference (Editor's note: station should have stated, to 17935), on our previous frequency (17910)". This refers to the 1230-1300 EE Svc. It can NOW be heard on 17935/11620. Former quoted channel is a clear channel currently. (Ed Insinger)BRAZIL 15445 R. Nacional do Brasilia is beginning a 24 hour new International SW Svc in EE (experimentally) until 6/30/72. Beamed 30 degrees via Rhombic antenna to London. Later, GG, FF, Italian to be added, as well as JJ and EE to N.A., with fgy reported as 11720; and 15445, this via SCDX. Checks indicate in my part of the country that 15445 is jammed variously between 0030 to past 0930; 11720 fgy is mostly CBC No. Svc dominated. (R.B. Odlin)...15445 (armed) R. Nacional, Brasilia, often heard around 0125 checks, in EE, pops, since 6/4 onwards. (Al Niblack)...11885 Radio Maua is again showing, good from 0855 tune with anmots, nx, mx, an ID, PP. (John Tuchscherer)CANADA (For German speakers) JW from Sackville at 0200-0415 on 9625/11865, coming in beautiful lvl this QTH. Good news coverage and good music. (Anthony Marks)...Radio Canada International, 11845, 2115, good reception. (William Higham) (Frequency quote correct? Editor)...6070 Regional CFRK noted with ads, time chex, around 2400, though amidst some QRM) (William Higham)CEYLON On 5/22, this country adopted its new constitution and the name as the, "Republic of Sri Lanka". (SCDX)CHILE 9590 Radio Pres. Balmaceda heard S/off 0500 after R. Nederland closed (R.B. Odlin)COLOMBIA 5960 LV de Bogota heard fairly regularly now, all SS. (Gerry Dexter)CONGO (R) ORTF, Brazzaville, relays the EE News 0530-0545 on 21500 and 15190; also, direct from Paris on 17730, 15135, and 15295. Noted 6/14. (August Balbi)CZECHOSLOVAKIA Radio Prague in EE at 0700 on 21700 and 21690, heard well. (August Balbi)...R. Prague, 0300-0355, heard on 11990, EE, at 54555 rating. (Jeff Dubin)EGYPTIAN ARAB REP 9475 R. Cairo in EE, 0206-0300, at vy good lvl, mx, etc (Jeff Dubin) ...Radio Cairo has been logged in FF to NA at 0103 on 11630, though is listed for 0145-0245. Maybe a sked change with earlier S/on. (Harold Sellers)FAKLAND IS (FLASH-FLASH) Per a recent verification via aerogramme, the Falkland Island Bc Station operates on 536(MW) and 3958. The outlet on 3958 has been noted drifting. (Graham Bell, Cape Town, South Africa, via SCDX)FINLAND 15185 Pori noted in EE to Europe from 1800-1830 time slot, with good signals. (Craig Wicks)FRANCE 17765 ORTF, Paris, found with news in EE at 1100, on 6/1. (Jeff Dubin)GERMANY (E) RFI has EE to SEA at 1530, noted 5/28; often times is QRM'd out. Is a re-activated fgy. (John Tuchscherer) (17700)GERMANY (W) 21705 JW, Wertachtal, 500kW, in EE at 1430, quite strong lvl. (August Balbi)GUTANA (F) Bill Whitacre is pleased with a QSL card and letter, both in FF, just in after 4<sup>th</sup> months, for a report on the fgy of 3385, from Cayenne.HAITI 4VEH, 11835, noted at 1500 in EE, in the clear; quite a contrast to QRM ridden prepping around 0100 when the fgy is buzzing. (Ed Insinger) (Editor's note: 4VEH has changed its letter month to June, the anniversary of the station's going on the air. Is eager for reports. (Via SCDX)HOLLAND 11730 Radio Nederland (Bonaire Relay) excellent 55555 rating with the Happy Station Mailbag portion at 0230. (Jeff Dubin)ITALY 11810 Rome noted in EE at the possible new time of 0105. (Craig Wicks)

(PLEASE TURN OVER)

ISRAEL 9625 Tel Aviv, noted from 2045 to 2115 S/off; aired the news in EE prior to close down, fair lvl. (Jeff Dubin)

JAPAN NHK to Europe 0645-0845, heard daily on 21570//16825; EE news 0800. (August Balbi) (August, did you mean the quote of 16825?? Editor)

KUWAIT HK logged on 15345, 1800-1830, 6/8, with pops and YL DJ. (Jeff Dubin)

KENYA 4915 V of Kenya heard from 0352 tuning with Afro mx, EE armets. (Ger Dexter)

LUXEMBOURG Radio Luxembourg, 6090, 0100-0200 S/off, vy easy listening lvl, pops, and news in EE just before pulling the switch. (Jeff Dubin)

MALAYSIA BRCFES Relay, Tebrau, EE news 0900 on 21610//17880//15435; also new 15310 //11955//11750//and 9725. All well heard most every day. (August Balbi)

MOZAMBIQUE 4855 RCM fair, mostly music and PP armets at 0425 tuning. (Gerry Dexter)

NEW ZEALAND RNZ, ZL18, 9520, heard from tuning at 1000, with good results, till

leaving at 1040, really 5x5. (Grady Ferguson)

NIGERIA (See May FlashSheet) NBC outlet S/off at 2305, after relay of EE Lagos news at 2300. Possibly Maiduguri, ex 4900, as not heard there recently. (Bob Padula)...

The North Eastern State Program of the NBC operates two transmitters at Maiduguri.

Besides the MW transmitter, there is a 10kW SW transmitter, formerly on 4900, but now on 6100. (SCDX)

PAKISTAN Karachi heard only yesterday beasting the GOS on a fgy vy near 15520, the previous Bangladesh outlet; time was 2015 to past 2100, with EE mx, and Vernacular mx. This was definitely Karachi, possibly hoping to catch some of Bangladesh's listeners? (Harold Sellers)

PERU A tentative logging of R. del Pacifico, 9675, at 1250 in SS, S/off at 1300 on 6/3, but no ID heard. QRM de ABC made going rough! (Ed Insinger)

PHILIPPINES 15440 FEBC Mailbag on Thursdays 1330, also on 11920. (August Balbi)...

Voice of the Philippines, 9581, noted with EE ID by GM at 0903, followed by mx and prgming with YL hostess, fair copy. (Dan Jamison)

POLAND Polskie Radio in EE to NA at 0200 good lvl on 9675//17270. 7270 is often QRM-ed from AROs. (Ed Insinger)

SOLOMON IS 3995 SIBS good lvl at 0856 tuning, an invitation to hear the BBC News, but then just music till 0915. (Gerry Dexter)

SO AFRICA Springbok Radio at 0600 on 9720; on 9680 with EE news at 0700 and 1430. On 11790 and 11935, 0715, with Hospital Time prgm in EE. (August Balbi)

SPAIN RNE, 9570, in SS, 0213, 34333. (Jeff Dubin)(Jeff, is this fgy quote correct,

✓ SPANISH SAHARA Radio Sahara, 7230, has again been heard at the time / Editor) of 2115-2230. (SCDX)

✓ SWAZILAND latest asked for Swazi Radio is 0400-1700 on 6155; 0400-0600 on 3223. (3223)

✓ Address is: P. O. Box 23022, Joubert Park, Johannesburg. (South African DX Club, via Don Jensen)

SWITZERLAND 15305 SBC in EE at 0200, vy good lvl. (Jeff Dubin)

✓ UNITED ARAB AMIRATES 9695 Now named the Voice of the Arab Amirates, Abu Dhabi, is well heard 0900-1950. The old fgy of Abu Dhabi, 4988, seems inactive now. (SCDX)

TURKEY Ankara in EE to NA at 2200 on 15195 is booming in, crystal clear; are requesting-reports, letters; in //9515. (Ed Insinger)

USA WINE, Red Lion, moved to new 15185, 2100-2245, from previous 15295(August Balbi)

USSR Radio Station Peace and Progress in EE at 1530 to 1600 on 17900//21725, fair to sometimes good lvl, with the, "Voice of the Soviet Public Opinion".(So they say)

(Ed Insinger)

VATICAN 15420 VR fine lvl at 0109 with Bells of St. Peters, shortly into FF. (Al

LAST MINUTE ITEMS: PERU 4890 At 0505, Radio San Juan, FB lvl, easy / Niblack) listening, in SS...6045 Radio Santa Rosa fine lvl in Spanish at 0127, including an ID. (Al Niblack) (CREDIT Radio San Juan item above to Editor Ralphus Perry)

UNIDENTIFIED: 9515 A station from 0449-0527 monitoring with religious prgming. ID seemingly as, "Radio Stancia". Language may be Russian. WHO?? (Craig Wicks) (How

about HCJB; or, Trans-World Radio, using a new fgy? (Editor)

SUNSPOT COUNT FOR MAY AS FURNISHED BY THE ZURICH OBSERVATORY. 6-5-72: 1-17, 2-39, 3-32, 4-27, 5-49, 6-68, 7-79, 8-73, 9-99, 10-91, 11-79, 12-92, 13-103, 14-130, 15-

113, 16-125, 17-140, 18-133, 19-127, 20-105, 21-89, 22-77, 23-59, 24-58, 25-56, 26-

55, 27-41, 28-44, 29-58, 30-79, 31-85. MEAN-78.1

PREDICTED: JUN-59 JUL-56 AUG-54 SEP-52 OCT-49 NOV-47 (Grady Ferguson)

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Don Jensen, Wisc; Anthony Marks, Ore; Al Niblack, Ind; R. B. Odlin, Wash; Bob Padula, AUSTRALIA; Harold Sellers, CANADA; John Tuchscherer, Wisc; Ralph Perry, Ill; Bill

Whitacre Mich; Craig Wicks, Mich; Sweden Calling DXers. .... 73, AL

MYSTERIOUS DIAPER DXer CONTEST

Name the famous NASWA DXer shown here in his earlier days. Correct answers will be drawn from a hat 1 August. Winner will receive a surprise prize. Send your entry to: NASWA FOTO EDITOR Edward C. Shaw 621 Burleigh Avenue Norfolk, VA 23505 USA



MYSTERY DX'ER



Alan Roth

F  
R  
E  
N  
D  
X

John Hoogerheide

F  
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T  
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S

Radio Moscow's English Language Staff. Mrs. Eugenia Stepanova, at center with scarf.



"Ralphus" Perry

## See You In BOSTON

Yes, the time is here! The 1972 ANARC Convention will be held in Boston the 14th, 15th and 16th of July. If you have not already made plans to attend, do so now. This meeting promises to be the best ever. There will be displays of equipment, prizes, a "sale and swap table". The banquet speaker Saturday night will be Eddy Startz, host of the Radio Nederland "Happy Station" program for many decades....You will also meet many of the top DXers in North America; names you see in print, but now you'll have the chance to talk with them. You will find QSL collections galore, and the owners more than willing to show them!...In general, you will find a friendly group of people, many experienced, many not so experienced, all interested in DXing. ....Read the article by Don Jensen on the page facing the inside front cover, note the address of Steve d'Aldolf, and get word to him that you will be there!....See you in Boston!

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