

# North American Short Wave Association

# F R E N D X

## SWBC NEWS 11-74

**HELP:** HDQ is in need of someone to help keep up with changes in schedules and frequencies in English transmissions, so that the English transmission list which appeared in the July issue can be easily updated from time to time. This will involve extracting data from Log Report, and other sources, and some on the air checks. Especially needed are some people on the west coast for monitoring in connection with this on-going project. Monitors also needed in other parts of North America. Write Dan Ferguson at HDQ if you are interested. Must have good quality receiver with capability of reading frequencies to nearest 5 KHz.

**BOLIVIAN SURVEY** A "Survey of Bolivian Shortwave Radio Stations Known to be Active Between December 1973 and October 1974" has been compiled by Tony Jones, of Paraguay. This survey is currently being printed, and will be ready by the time you read this. The survey is 6 pages, on 8 1/2 x 14 paper, and covers over 40 stations operating in Bolivia in the past year. This survey is one the serious LA DXers will not want to be without. It is available from NASWA HDQ for US\$1, via first class mail. Overseas the cost is 8 IRCs for airmail delivery. Order quickly to be sure you get a copy. Write NASWA HDQ.

**DX STAMP SERVICE** If you've not heard of the DX Stamp Service, we want to correct that situation. DX STAMP SERVICES, 83 RODER PARKWAY, ONTARIO, NY 14519, can supply mint stamps in the proper amounts for airmail postage to NA from most countries of the world. Send them a self addressed stamped envelope for a price list. Mint stamps are generally cheaper than IRCs, and work better in many cases. When you send them the SASE for a price list, be sure to tell them NASWA sent you. (If you don't send the SASE when you ask for a price list, mention anyone but NASWA!)

**BAND MONITORING COMPETITIONS** Some interest has been expressed in band monitoring competitions in one form or another. We are willing to sponsor such, and to publish the results in FRENDEX, if one or more experienced DXers will volunteer to compile the results, and type them. What we have in mind is a 2-3 days period of concentration by a large number of DXers on a particular band (or maybe even a particular continent on a given band, e.g., 60 meter LA stations, or 60 meter Africans), with the complete list of loggings, including tentatives, and unidentifieds, to be published. Such efforts have recently been quite popular in Europe, and interest has been expressed in such competitions here in NA. Incidentally, the "competition" part would be simply that each DXer try to log and ID as many stations as possible in the given period. There would be no single winner, though all who participate in the effort will likely profit by it, many by logging new stations.....If you are interested in coordinating efforts such as this, please let Dan Ferguson know about your interest. Write him at HDQ.

THE LOUDENBOOMER REPORT

Apparently my last few tirades struck a bit too close to home for some. Man! The desk is full of complaints and sarcastic little ditties, all saying things like, "you crum, Loudenboomer, can't you ever say anything nice about anyone?"

Well...the answer is "yes"!

I've noted with glee that the poor overburdened and underpaid postman is getting more deserved rest, that nice fellow. The mail only shows up at this QTH now and again lately.

How about this one? I'm delighted to see that Radio Peachee has done its part to conserve energy..by going off the air on the shortwave bands.

I must admit, it does my heart good to note there's still a degree of imagination left in this oft-times grim hobby (what with lost mail, no-replies, and QRM abounding). Congratulations on those loggings, Shot Breeze!

Truth be told, I almost danced in the street when I found out the news that equipment manufacturers were doing their patriotic duty to save precious glass, semiconductors and metal by not making communications rigs anymore..

My hat is off to the inscrutable...and unQSLable..Chinese regionals. Though I wish they'd relent, such fortitude and persistence in this day and age has to merit at least a tad of recognition.

Hats also off to the prestigious "Si, Senor DX Weekly" for continuing to be a top-notch goldmine of DX-info. Now, I just wish I could get into the thing!

I am overjoyed at the regularity at which the tons of Chairman Mao posters arrive from Radio Peking. Super!

Let's have a warm hand for all the surly landlords across the land. After all, when the summer doldrums hit us, what is better to liven things up than a struggle with the proprietor over that "goll-derned wire up there."

And another industry deserves some recognition here; television manufacturers. After all, I've heard sources of interference before, but none can rival the emission from ny neighbor's portable Equinox-TV. Gad! They should be introduced to the REI jammers--would improve!

(Incidentally, while I'm on the subject, let me pass this unfounded rumor along. I have heard that the angry staff of the Voice of the Purple Pumpkin is going to try to sabotage WWV by interfering. Right--pumpkin jam!)

A doff of the chapeau to Radio Canada for pulling off the incredible feat of transforming their northerly station into a tropical country. (They must have -- I hear 'em down in the 60-meter tropical band.)

Hurrah for Radio Nick-Of-Time, Surinam, which finally managed to get its outdated shortwave listing deleted from the WRTH. Only took ten years, after all...

And while mentioning Surinam, let's all cheer for Pork-knockers Radio. They're doing a fine job. Never before such a proliferation of beaten-up pigs in my life!

I commend the European pirate broadcasters on their fine sense of personal hygiene (they never stay up late, but instead go to bed nice and early and never stay on the air after dark..when we MIGHT hear 'em stateside. Hmmp.)

Thanks a million to Hank Kissenger for not quickly abra-cadabra-ing a solution to the latest Mediterranean turmoil. Hang in there Barry Magnum, there may be a clandestine outlet there yet.

Allow me to send a long a "nice going" to the "name" DXer who managed to hear the special test transmission from Kook Island Radio--when it wasn't even audible a block away from downtown Rarbojonga! Now THAT's DXing!

Fill in your own here: Huzzah for \_\_\_\_\_

when they actually \_\_\_\_\_ at the same time!

Yeah, right on! (Left off?)

Thank goodness for the Gnomes of Ulster and their benevolence in not changing their location to Alaska, thus sparing us the worst pun of all: The Gnomes of Nome.

And lastly, a lusty "bravo" for the wonderful job turned in month-in and month-out by the everlovin' head honcho of the International Worldwide DX Radio Association (IWDXRRA). Who? Why, none other than

Charlie

# Shortwave Center

New editor:

Charles A. Wooten  
4911 Battery Lane, #1  
Bethesda, MD 20014  
U. S. A.

WHILE ED SHAW IS TRYING OUT THE PACIFIC OCEAN, WE WILL HAVE A NEW SWC EDITOR. ED WILL BE BACK IN A FEW MONTHS. Meanwhile, beginning with the January issue, We will have the services of Charlie Wooten as SWC editor. Charlie's address is above. Be sure to give him your support. (Dan Ferguson, at HDQ)

## FUTURE OF AMERICAN SWBC IN THE PACIFIC

by Bruce Boomer

After my visit to the FCC offices in Washington, I wondered how any American Radio or TV station ever got on the air at all. The FCC has official files on all American broadcast stations and they are open to the public, and I availed myself of these records one day.

Upon arrival one must complete a form requesting specific files of a station, and I did this for radio stations WINB and WYFR (including any previous call letters), and also information on the TWR-Guam station and Reverend Billy Graham's activities in Hawaii. I was asked by the clerk if these were AM stations. I explained that they were short wave stations, but the clerk still doubted their existence. Searching in vain, he tried to send me to the microwave office! After some vigorous convincing, I finally found a secretary who succeeded in digging up the WYFR files and two construction permit (CP) applications. The construction permits were interesting.....the owners of then WRUL (now WYFR) in 1962 had applied for a 250 kilowatt short wave station on Guam and a new transmitter site in Florida. Since then, of course, WRUL has changed ownership twice and the FCC did not reject the applications until the applicant withdrew them in 1974.

I went back to the front desk asking for the new construction permits on WINB, but the hard workers claimed they had given me all they had. As I left I noticed a door across the hall marked miscellaneous. In there, I found someone who actually knew what was going on!! The man assured me that the Billy Graham and TWR medium wave files were in the file room, and that WINB and TWR short wave files were "upstairs." TWR's file was being used because of a change in plans. TWR now wants only one short wave transmitter of 100 KW (changed from two transmitters of 50 and 250 KW ). I did not find out why WINB's file was "upstairs." (Maybe it was due to the embarrassment WINB has caused the FCC!)



With more persuasion, the humble file clerk finally located the Graham and TWR folders. The Graham station has quite a way to go before getting on the air. This was assumed since there was a lack of forms in the file and also due to the recent application date in 1973. They want four 250 KW transmitters, using two log-sequential arrays beaming 240° and 310° from Kahului, Maui with the whole operation costing nearly \$1.8 Million. Preliminary program plans include broadcasts in English, Russian, Chinese, and Japanese, almost 24 hours a day. An unusual point is that religious programming seems not to be the main course planned by this station. Programs will include news and music from Hawaii, Listener's Mailbag, International Science Report, Book Reviews, Masterpieces of Music, and a stamp and coin collecting program. Sundays seemed to be the only day having predominantly religious theme programming. It seemed very similar to WINB's projected schedule, implying international programming on order of VOA's example, and not exploiting religious or political themes.

The original TWR-Guam file was dated 1970. The medium wave station had been granted a construction permit for 770 kHz with 10 KW non-directional full time. I guess that the short wave service probably has a good chance of being approved soon. No other applications were on record as far as I could determine, so hopefully this bit of information will serve to give the facts as they are on public records and dispel many rumors about American short wave stations cropping up all over the Pacific - at least for now anyway.

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LARRY YAMRON (Left) formerly of QSL Report, relaxes in his corner DX shack decorated with many of his collected pennants. Shown too are his HQ-180 and SX-190 receivers. Larry is now a student in Boston, but looks forward to keeping in touch with the Bad-Guys.



DAVID BALL (Right) in his favorite position for DXing, and keeping well-oiled with a mug of tuning oil. David uses a DX-150A and a dipole antenna. Main interests include Latin America and Oceania. He is looking for other Toronto area DXers.

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THE  
BRANCH  
DX CLUB  
GATHERING

THE GROWING POPULAR DX-ACTIVITY

by Andy Robbins

"Where's the coffee? I'm about to die!"  
"You spilled it all over my WRTH, dingbat!"  
"You got my headphones?"  
"I think I'm sitting on them."

This strange conversation might be a weird way of introducing an article, but it does illustrate typical monologue which might occur during one of the most exciting developments on the DX scene: the branch DX club.

Our DX friends above are participating in one of the branch club's popular activities, the 24-hour DX-in. If you have been a part of such a gathering, you will no doubt sympathize with them. If you have not, and even if you have, read on, for the development of branch clubs is one of the most effective means to maintain and expand interest in our hobby.

But, before we get into the various activities that a branch gathering can pursue, a little preliminary information is in order. The large national clubs like NASWA and others have been in existence for a number of years, providing their members with services that require a financial base that only a larger organization can provide. Too, they serve to bind far-flung hobbyists together to exchange information on a large scale. One thing they cannot provide, however, is day-to-day contact between DXers. It is in this area that the branch club can best serve the hobby. It is often assumed, wrongly I believe, that contact among DXers on a local scale takes place before a given DXer joins one of the national clubs. As a case in point, in the south western Michigan area where this author lives, the local "practitioners" of the hobby have only recently become aware that other DXers live in their area. So then, with the above in mind, you might ask, "How is it that a DXer can meet others in the hobby within his area?" Once again, the national clubs are our source of help...it is relatively simple to look at the loggings section of one's bulletin and find at least one person somewhere nearby. Who knows? You might find one living just down the street!" Club officials will more than likely be able to give you the addresses of others in your zip code area. Once you and a few new-found friends are united, it should not take too long to organize a ten-member plus branch bunch.

In Kalamazoo, the above process worked to produce a group we call the "Great Lakes DX Association" - a loose crew of about ten that had in common their NASWA membership and FRENDX. Several others have been found to join GLDXA, and NASWA as well. Meetings can rotate between the member's houses (or someone ideally can volunteer their place as a permanent rallying point). Talk usually centers around receivers, late DX tips, QSLs, and so on.

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In 1960, Radio Peking's Home Service used 25 medium wave and 78 shortwave frequencies. The International Service was being cranked out on three medium wave and 94 shortwave frequencies. Overall power output jumped from 300 kilowatts in 1950 to more than five megawatts in 1969. Current wattage figures were not able to be found.

- Radio Peking uses about 300 frequencies for its broadcasts to various areas in various languages. Powerful stations located in such places as Kunming, Chung Chou, Urumchi, Peking, and other areas beam programs to Africa, South East Asia, the Middle East, Europe, Australia, New Zealand, the Pacific plus to North and South America. Russian language programs (to be covered in more detail later) are broadcast from Urumchi, Harbin, and other locations. The Lhasa, Tibet, facilities cover India and broadcasts in Hindi. The Hu Ho Hao Te station in Inner Mongolia serves the Mongolian areas.

The Chinese have built stations in Tirana, Albania, and in Tanzania. These two facilities, including station operations and programming, are under Peking's direct control. It is thought that Peking is not now nearly as influential in Tanzania as it was in the past. They still maintain tight control over the Tirana operation though.

The Tirana, Albania, relay station is used only for transmissions on shortwave to the Americas, not to Europe. By doing this, Radio Peking is heard with a flutter-free signal in the Americas from the southern European relay site. Radio Peking is relayed, however, by Tirana to Europe and the Middle East; but only on medium wave frequencies.

If you do not tune outside the international shortwave bands, you probably will not hear too much from Radio Peking. But if you like to tune out of the established international shortwave bands, you will soon find that Radio Peking is almost the only broadcasting station operating between ... or over teletype or aircraft or other utility stations. Radio Peking is an easy catch in these band segments, especially if you are tuning around sunrise.

It is interesting why Radio Peking uses these out of band frequencies. Peking simply avoids the crowded bands and the pile ups of high powered broadcasters trying to use the same or adjacent frequencies. This is especially true for Radio Peking's broadcasts to Europe. When you get a chance, tune Radio Peking's English transmission to Europe at 2030-2130 GMT on 9030, 8490, 7590, 6825, 6610, or the English broadcast to North and West Africa at the same time on 15030, 11695, 9965, 8345, or 6550. Not one of those frequencies are in the bands.

Services to North America and Australia and New Zealand contain a few frequencies within the international shortwave bands. The latest 1974 Radio Peking English schedule to North America has been made available for use in FRENEX by the BBC Monitoring Service. It reads as follows:

0001-0100 GMT on	17675, 15520, 15060, 8300, 6810
0100-0200	17855, 17490*, 15520, 15350, 15060, 11965, 11455, 11375, 10865, 8240, 9780-T, 7120-T
0200-0300	17855, 17490*, 15350, 15060, 11965, 11455, 10865, 8240
0300-0400(WCNA)	17855, 17735, 17530, 15060, 11630*, 11445, 11375, 10865, 8240, 9780-T, 7120-T
0400-0500(WCNA)	17855, 17735, 17530, 15385, 15060, 11630*, 10865, 8240
1200-1300(ECNA)	11685, 8260, 5250, 4130

\*=single side band T = Tirana relay

WCNA = West Coast North America ECNA = East Coast NA

#### CHINA NEWS BROADCASTING STATION

The New China News Agency's shortwave voice, the China News Broadcasting Station, has 46 shortwave transmitters in Peking. Those stations broadcast the daily news at dictation speed both for local and international listeners.

Chinese musical interludes are played sometimes between segments of news. These stations can usually be identified easily by the slowly spoken Chinese. The announcer is often a woman. It might be noted too that the China News Broadcasting Stations have been known to broadcast in English in the past. Also, the China News Broadcasting Stations have been known

as the China Press Agency stations in the past.

The mission of the China News Broadcasting Stations is to transmit news dispatches to distant newspaper editors and other information users and processors from the Peking news offices by way of shortwave radio. The Communist Party and the Chinese government determine the selection and treatment of everything that goes to press. Furthermore, the authorities have said that all news papers must use only the news releases from the government. Guess who releases the official government OK'd news - yep, the China News Broadcasting Station!

This information is not only processed by in-country Chinese government newspapers. Western monitors in Hong Kong and Tokyo constantly tune the China News Broadcasting Stations to gather information so that they may develop Peking's official line or attitude on current events.

Listeners throughout the world may also listen to the broadcasts. They are well received at times in the United States. The China News Broadcasting Station uses three and twenty kilowatt transmitters from Peking sites.

The current schedule received direct from the China News Broadcasting Station by a US DXer (who requested not to be acknowledged by his contribution) is as follows:

## 中国新闻社

TABLE OF TIMES AND FREQUENCIES OF  
TRANSMISSIONS BY

CHINA NEWS BROADCASTING STATION

(Effective as from June 21, 1974)

First Transmission: 1100-1400 GMT		Second Transmission: 1500-1700 GMT	
16270	13700	11120	7920
16105	13845	9330	7560
15574	12074	9266	7540
14820	11413	9150	7425

In the past, China News Broadcasting Stations have been known to use or to be listed on the following frequencies; and operating under the listed schedules. (Note: there are separate schedules for summer and winter xms)

3570	6240	10172	11590	15575	19260
3820	6256	10206-C	12075-C	16105-A, B, C	
4480	7425	10487	12125-A, B, C	16270-B, C	
4500	7526-A, B, C	10655	13700	16342-A, B, C	
4920	7625	10990	13845-A, B, C	16373-A, C	
5005	9135	11120-A, B, C	14416-A, B, C	16435-A, B, C	
5470	9180-A, B, C	11205	14465	17221-A, B, C	
5525	9266	11415-A, B, C	14820-C	17504-A, B, C	
5925	9330-B	11522-A, B, C	14880	18375	

A = this frequency in use from 0000-0230

B = this frequency in use from 1100-1400

C = this frequency in use from 1500-1730V

### OTHER BROADCASTING ENTITIES IN CHINA

Most of the stations outside Peking carry the regular home service but there are several special services. The Taiwan Service is carried over four shortwave and 13 medium wave transmitters located on the eastern coast of China opposite of Taiwan. This is a propaganda service and is directed to the military, the government, and people of Taiwan. Parts of the Taiwan Service are also relayed by some of the regional Home Service stations, and additionally by PLA stations.

You may be able to hear the Taiwan Service in North America. Program I signs on at 2000 GMT on 1100, 9170, 6790, 5125

at 2315 15710 is added  
 2315 5125 is dropped  
 0015 15880 is added  
 0015 11100, 9170, 6790 are dropped  
 0030 11100 and 9170 rejoin 15880 and 15710  
 0610 (0700 on Sundays) ... sign off

Program II signs on at 0830 on 15880, 15710, 11100, 9170  
 1230 approx there is a frequency change:  
 15710 only is used  
 1415 11100, 9170, 6790, 5125, rejoin 15880  
 1415 15710 is dropped  
 1810 sign off  
 (schedule by the BBC Monitoring Service)

#### PEOPLE'S LIBERATION ARMY STATIONS

Another service closely related to the previously mentioned psychological tic-tac-toe broadcasting operation, the Taiwan Service, is a series of ten shortwave and eight medium wave stations operated by the People's - Liberation Army (PLA) collectively known as the Fukien Front Station. The transmitter sites are scattered throughout Fukien Province, directly across from Taiwan, and broadcast to the Nationalist-held off shore islands and Taiwan. They also relay the Taiwan service at times.

Two broadcasts are scheduled each day. The first is from 2005-0530 GMT. And the second one is from 1000-2000 GMT. These transmissions may be heard on a combination of 18 shortwave frequencies. Many of these frequencies are heard quite well in the United States.

Since the PLA stations relay the Taiwan Service at times, (to be precise, from 2100-2115, 0400-0415, 1200-1215, 1300-1400, and from 1700-1715) don't get the two stations confused. To help keep the stations straight, the PLA stations use the following frequencies:

2430	3200	3900	4840	5870	7025
2600	3400	4140	5170	5900	7280
2800	3535	4380	5240	6765	8195

Again, the broadcasts are from 2005-0530 and 1000-2000 GMT.

#### REGIONAL STATIONS

Additionally there are about forty or so shortwave and medium wave stations located in Inner Mongolia, Tibet, Sinkiang, and South China which are separate networks and broadcast non-Chinese language programs to the Chinese minorities in those areas. These stations and other regional outlets are listed below along with the transmission schedules, when known.

First the frequency is listed, then the city, the province or administrative division, and then the schedule - when known is listed.

2200	Foochow, Fukien	Second Program	2045-1700
2340	Foochow, Fukien (not Front)	First Program	2045-1700
2350	Tsinan, Shangtung		2130-1530
2415	Wenchow, Chekiang Prov		2105-1520
2475	Hangchow, Chekiang		2110-1520
2690	Harbin, Heilungkiang Prov.		
2745	Hangchow, Chekiang		2100-1530
3238	Urumchi, Sinkiang Uighur Auton Region		
3245	Chengto, Tsinghai		
3260	Kweiyang, Kweichow Prov		2200-1500
3310	Changchun, Kirin		2000-1430
3365	Lanchow, Kansu		
3900	Hailar, Inner Mongolia		0000-1600
3930	Chifeng, Inner Mongolia		2120-1530
3940	Wuchan, Hupeh		2130-1600
3950	Sining, Tsinghai Prov		0000-1530
3960	Urumchi, Sinkiang Uighur Auton Reg		
3970	Huhehot, Inner Mongolia	-?- to run the "A" Program	
4000	Hailar, Tengkou, Ulan Hot ...	all in Mongolia listed ...?	
4003	Tengkou, Inner Mongolia		-1500
4035	Lhasa, Tibet		1130-1545
4069	Huhehot, Inner Mongolia		
4110	Urumchi, Sinkiang Uighur Auton Reg.		0000-1630
4220	Urumchi, Sinkiang Uighur Auton Reg.		2340-0300; 1200-1700

4400 Urumchi, Sinkiang Uighur Auton Reg. 2340-1700 in Mongolian  
 4500 Urumchi, Sinkiang Uighur Auton Reg 0000-1615  
 4525 Silinhot, Inner Mongolia 2120-1530  
 4760 Kunming, Yunnan Prov 2120-0800; 1030-1735  
 4770 Urumchi, Sinkiang Uighur Auton Region  
 4785 Kunming, Yunnan Prov 2120-0800; 1030-1735  
 4833 Shenyang, Liaoning 2100-2400; 0330-0515; 0900-1530  
 4865 Lanchow, Kansu 2100-1635  
 4913 Harbin, Heilung Kiang Prov. 2100-1435; (0900-1000 in Korean)  
 4975 Poochow, Fukien (not Front) 2045-1700 ... First Program  
 4980 (Inactive) Wuchan, Hupeh Prov 2130-1600  
 4990 Changsha, Hunan Prov. 2030-1620  
 5010 Nanning, Kwangsi Chuang Auton Region 0600-1205  
 5020 Nan-ch-ang-hsien, Kiangsi Prov. 2000-1730  
 5040 Poochow, Fukien 2045-1700 ... First Program  
 5335 Urumchi, Sinkiang Uighur Auton Region  
 5441 Urumchi, Sinkiang Uighur Auton Region 2310-1635  
 5800 Urumchi, Sinkiang Uighur Auton Region 0000-1630  
 5920 Nanning, Kwangsi Chuang Auton Region  
 5925 Urumchi, Sinkiang Uighur Auton Region  
 5933 Chengtu, Szechwan Prov  
 5935 Lhasa, Tibet 0000-1500; (1500-1700 in Tibetan)  
 5951 Harbin, Heilungkiang 2100-1430; (0900-1000 in Korean)  
 6000 Hangchow, Chekiang Prov 2110-1520  
 6070 Changchun, Kirin 2020-0035  
 6165 Lanchow, Kansu  
 6176 Sian, Shensi  
 6260 Sining, Tsinghai 0000-1545 (Chinghai listing incorrect)  
 6280 Urumchi, Sinkiang Uighur Auton Region 0000-1615  
 6500 Shanghai 0000-1500  
 6500 Sining, Tsinghai Prov. -1500  
 6840 Huhehot, Inner Mongolia 2115-1530 ... the "A" Program  
 6937 Kunming, Yunnan Prov. 2120-1735  
 6975 Huhehot, Inner Mongolia 2130-1500 ... Mongolian and "A" Program  
 7050 Urumchi, Sinkiang Uighur Auton Region 2310-1635  
 7165 Poochow, Fukien 2045-1700 ... the First Program  
 7225 Chengtu, Szechwan Prov  
 7323 Lanchow, Kansu  
 7385 Urumchi, Sinkiang Uighur Auton Region  
 7883 Lanchow, Kansu  
 8777 (also reported on 8710 and 8790) Pei Hai, Kwangsi Chuang Auton Reg  
 ..... 2200-1200/1700  
 9365 Huhehot, Inner Mongolia the "A" Program  
 9470 Urumchi, Sinkiang Uighur Auton Region  
 9472 Huhehot, Inner Mongolia  
 9490 Lhasa, Tibet 0000-1500; (1500-1700 in Tibetan)  
 9498 Sining, Tsinghai Prov  
 9990 Kunming, Yunnan Prov.  
 10245 Urumchi, Sinkiang Uighur Auton Region  
 11040 Huhehot, Inner Mongolia ... "A" Program  
 11990 Lhasa, Tibet

#### RUSSIAN LANGUAGE BROADCASTS

There are also a number of stations in northern China which beam Russian language programs to the Soviet Union. It is known that the transmitters at Urumchi and Harbin and other northern sites air the Russian language broadcasts. These broadcasts have increased in number as the lack of understanding between Peking and Moscow broadened.

Peking's Russian broadcasts start out with the usual "The East Is Red" interval signal. They then identify as "Govorit Pekin". The ID must be the Russian operators cue to turn on the jamming transmitters because it is then when, sometimes as many as a dozen of so jammers crop up around the frequency.

Changing frequencies is one way for Peking to evade the jammers but it is also one way for Peking to lose its audience. The jamming signal is enough to make some folks tune out the program too, I would imagine. But if the listener was intense, like some DXers I know, he would probably sit through the jamming and strain to catch a few phrases.

Jamming techniques used against Peking are multi-type. Jammers may air sounds of diesel engines, whistles, bag pipes, and a host of other weird

sounds. Sometimes the jammer will even replay the "jamme's" program ... but only this time the program will be played backwards.

Peking is wise to all of the tricks. As a matter of fact, Peking has a Russian broadcast in which they reverse the tape of the program so that when it is transmitted from a Radio Peking site, the programming is all backwards! This is called a Reversed Tape transmission. Maybe it is hoped that the Russians will do one of their backward jamming procedures on them then. This will mean that when the Russians retransmit the Peking signal intended as jamming, it will be played forward...or, in the right direction! This is sort of like having a Radio Peking relay site in the USSR for Peking's Russian Service! But possibly Peking, when airing the Reversed Tape program, is itself jamming some other station; possibly a Soviet station.

If you want to listen to one of these Reversed Tape transmissions from Peking, tune 17490, 11600, or 9365 at 0300-0355; from 0900-0955 try 8260 or 5220; or give 8345 or 6550 a whirl from 1830-1925.

If the Russian KGB should read this, I am only kidding!

Other Russian transmissions from Peking - played forward this time, may be heard from 1000-1055 GMT on

15520	9645
12140	9480
12055	9390
11515	5145

Or from 1300-1355 check out

11675	6690
9480	6560
7130	5145
7975	

To give you a rough idea of the significance of Peking's Russian language broadcasts, in April 1974, they aired 409 hours 30 minutes of programs per week. In June 1974, the figures increased to 471 hours 20 minutes per week. This reflects a 51 hour 50 minute increase of broadcasting time over a two month period.

#### CLANDESTINE BROADCASTING OPERATIONS

Yunnan Province seems to be the center for clandestine broadcasting operations directed at the peoples of South East Asia. The Voice of the - Malayan Revolution, The Voice of the Burmese People, and the Voice of the Thai People all are beamed from southern China sites in support of communist insurgents in the respective countries.

#### VOICE OF THE MALAYAN REVOLUTION

Let us review the political and military climate which prompted the growth of the Voice of the Malayan Revolution. The situations of course would be different for the Voice of the Burmese People and the Voice of the - Thai People; but the mission of the stations are virtually the same - that is to provide propaganda support in the form of radio broadcasting. So with this in mind, let's apply the general feeling obtained from the situational growth of the Voice of the Malayan Revolution to the anti-Burmes and anti-Thai clandestine stations.

Referenece VMR: Communist terrorist activities on the Malay Peninula date back to 1948. There has also been a separate small-scale insurgency activity in Sarawak - the Malaysian portion of Borneo, since the 1950's. Many of the participants in these movements were ethnically Chinese and have received a barrage of propaganda support from China. Also, Chinese Communist cadre members were (are) active in the movements. In the late 1950's, the insurgency movement withdrew from the Malay Peninsula into the jungles along the border of Thailand. The movement increased activity in 1971 after a long lull and is still active today.

On the Malaysian portion of Borneo - Sarawak, there were an estimated 10,000 sympathizers to the communist terrorists (CT's) in 1970. Many of them were armed. Indonesian and Malaysian forces have been reducing the number of CT's through the use of various psychological warfare techniques, open arms programs, and a host of other government programs designed to repatriate the sympathizers.

CT leaders also conduct psychological "warfare" operations directed at the Sarawak CT's and all others in the area in order to reinforce or to instill the political line of thought of the CT's. Propaganda support

in the form of radio broadcasts in Malaysian languages has been given by the Voice of the Malayan Revolution. VMR says that it broadcasts from the Malaysian CT headquarters on the peninsula but the fact of the matter is that the transmitters are located in Hengyang, Hunan Province. The programs are produced in the southern China town of Kunming, Yunnan Prov.

The 120 KW transmitter is often well heard in the United States. The Voice of the Malayan Revolution broadcasts in several Asian languages from

0430-0630	on	11830v & 15790
1030-1230		11830v & 15790
1245-1445		11830v & 15790
2200-2400		7305 & 15790

#### VOICE OF THE BURMESE PEOPLE

The Voice of the Burmese People went into operation in 1971. It is the broadcasting element of the Burmese Communist Party. Her broadcasting facilities, too, are probably located in or near Kunming in Yunnan Province China.

The Voice of the Burmese People is occasionally able to be heard in the United States. The existing schedule slates their broadcast from 1200-1310 on 5110 KHz.

In the past, the station also ran a program from 0030-0130 on 5114 KHz. They also announced additional frequencies of 11530, 9070, and 5000 KHz. The 5000 KHz outlet was heard on 5114 (now 5110). The other two frequencies have never been traced to my knowledge.

#### VOICE OF THE THAI PEOPLE

Another clandestine radio station operating from the Kunming area of China is the Voice of the Thai People. This station is operated by the pro-Chinese, Thai Communist Party and has close ties with the gang who operate the Voice of the Malayan Revolution ... the Communist Party of - Malaya. The Voice of the Thai People broadcasts in support of the Thai People's Liberation Army. That, in itself, is enough to explain why the Voice of the Thai People is so anti-US and anti-Thai government.

The transmitters do not always operate in parallel, although broadcasting the same program. This out of phase operation suggests that the transmitters are fed from separate sources and probably, the two transmitters are located at different sites.

Try tuning in the Voice of the Thai People at

2300-2340	on	6034v & 9423	1100-1140	T,Th,Sa	on	6034v & 9423
0000-0040		6034v & 9423	1200-1240			6034v & 9423
0300-0340		6034v & 9423	1300-1340			6034v & 9423
0400-0440		6034v & 9423	1430-1510			6034v & 9423
0500-0540		6034v & 9423	1530-1610			6034v & 9423
1000-1040		6034v & 9423				

#### AUXILIARY STATIONS:

##### FISHING FLEET STATION

China has an enormous fishing fleet which operates continuously in its coastal waters. The Pei Hai Fishery Station operates from the southern Chinese port city of Pei Hai, in the Kwangsi Chuang Autonomous Region, and beams its programming to the Chinese fishing fleet operating in the warm waters of the Gulf of Tonkin and the South China Sea. By the way, the frequency for the Pei Hai station is 8777 KHz.

It is assumed that there are other similar fishery stations elsewhere. It seems logical. Look at your map of China on the next page. Most of the thousands of miles of China's eastern border is coast line stretching from North Viet Nam to North Korea. Pei Hai is in the very lower southern coastal stretch, not even 200 miles from North Viet Nam. That leaves alot of room for more fishing fleets to operate in to the north.

It is possible that the Radio Peking Home Service programs are directed to the fishing fleets. They probably are ... just like Moscow's Soviet - Fishing Fleet broadcasts.

It is also possible that some of the PLA stations in the coastal province of Fukien also broadcasts at times to the fishing fleets. These stations could possibly cover the southern and central fleets. The Peking area



stations may possibly cover the fleets working in China's northern waters.

Why is there only one Fishing Fleet station? ... the one in Pei Hai. Why is it in the south? Why not in the central or northern portions? Or is this just the only one we know about? It seems likely for the port cities of ... say Foochow or Hangchow or Shanghai or Dairen to have similar broadcasting operations. But the Pei Hai installation is the only such known outlet to date.

#### TIME SIGNAL STATIONS

The Zi-ka-wei Observatory in Shanghai operates station BPV on a 24 hour basis on 5000, 10000, and 15000 KHz. Announcements are in Morse code at the first and 31st minutes of each hour. Also, 5430 and 9351 KHz are used from 1100-1105 GMT and from 1300-1305 GMT.

Another station, EPM, transmits only its call sign for one minute on 10000 KHz at 1329, 1359, 1429, and 1529 GMT only.

Shanghai Radio, XSG, another time signal station, uses 6114.5, 8502, and 12871.5 KHz from 0255-0300 and at 0855-0900.

#### THE CHINESE SHORTWAVE LISTENER:

Simple installations known as "monitoring stations" probably were first used to receive and pass on radio broadcasts from Radio Peking. They had a receiver and an attendant who recorded the broadcasts for future use at rallies and meetings. Then group listening became "in". This is where a bunch of folks huddled around a receiver and listened.

There were about 5000 monitoring stations in 1950, and by 1957 there were an estimated 70,000 such posts scattered about the Chinese countryside. The monitoring stations which served the minorities had better quality receivers and record players, more speakers, and trained attendants.

By 1960, these monitoring stations were being replaced by wired broadcasting - also known as rediffusion.

Rediffusion over wire is when broadcasting centers relay programs over wire lines. In this case, the broadcasts would come from Peking and provincial centers to public gathering places, communes, factories, and even to individual homes.

7  
Wire broadcasting grew at a very rapid clip. There were 51 centers in operation in 1950, 1100 in 1959, but only 2000 in 1964. The decrease between 1959 & 1964 was because of the abandonment of the commune system. Currently, there are about 8 million loudspeakers in use in China.

Wired broadcasting gives the Chinese government the ability to control the programs and listening habits of its people. Information can be passed to the general public that is not normally released to foreign listeners. Programs in these wired broadcasts are a mixture of relays of Home Service radio broadcasts, information, propaganda, and entertainment.

The major deterrent to increased shortwave listening has been the lack of radio receivers. The lack of electricity in homes is also another problem - but transistor radios are helping to eliminate this problem.

There are about 40 to 50 Chinese brands of receivers on the market now. There are no licensing fees and there are few restrictions on receiver owning and radio listening. Selective jamming of foreign broadcasts does occur. As of 1971, there were about 14 million receivers in China as compared to one million in 1950.

We all know how well Radio Peking comes out of our speaker, but you may ask, how well does the Chinese shortwave listener hear the Voice of America? Let's call on a clipping from the "Kankakee Daily Journal" (Illinois) to shed some light on this question.

By Edward Neilan

## Chinese (sometimes) hear VOA

Cagley News Service

WASHINGTON — The People's Republic of China continues to jam Voice of America broadcasts beamed in the Mandarin dialect of Chinese from U.S. points to the mainland of China.

**THE JAMMING, WHICH** VOA spokesmen say is on a "selective basis," is continuing despite pledges in the 1972 Shanghai communique signed by President Nixon and Chinese Premier Chou En-lai for friendship and expanded communication and cultural exchanges.

Despite the sporadic and "relatively unsophisticated" jamming, the VOA has had some success in reaching the Chinese audience, according to VOA spokesman Ruth Walter.

She said programs of English lessons, offering to send instruction manuals to listeners who responded, had so far drawn 126 letters from Chinese in various parts of the country.

"We know from these letters that our programs are being heard," said Miss Walter. "But we also know that they are intensively jammed, mainly in the large population centers."

Foreign correspondents and members of the new U.S. liaison mission in Peking have confirmed that sometimes the VOA programs can be heard and sometimes they are jammed.

During this reporter's visit to China in February, a Foreign Ministry representative was asked: "Why do you find it necessary or useful to continue jamming Voice of America broadcasts?"

"THERE IS NO jamming," the Chinese said. "I have listened to the programs myself."

The following day, however, after apparently checking with someone at the Foreign Ministry, the same man said: "There is no jamming, but sometimes we broadcast programs on frequencies that are very close to the Voice of America shortwave frequencies."

This amounted to a tacit admission of jamming.

Miss Walter said there was apparently no selectivity as to what programs during the 10-hour broadcast day were jammed by the Chinese. But she said VOA monitors have recorded the Chinese jammers identifying themselves "with some sort of code, probably so that highups will know they are doing their job."

The VOA spokesman made it clear that only the VOA Chinese language broadcasts are jammed by the Chinese, including the English-language lesson programs which are beamed on the Chinese service.

**THERE IS NO jamming** of the VOA English-language programming which can be heard 24 hours a day inside China.

The VOA beams Mandarin dialect programs to China seven days a week for a total of 70 hours of programming. Radio Peking broadcasts a total of five hours daily to the United States, aiming at East and West coast audiences. The Peking-originated broadcasts are

in English and Miss Walter said that, of course, "we do not jam their broadcasts."

The VOA Mandarin programs are developed under the direction of Neal Donnelly, 40, chief of the VOA's China branch. He is a former U.S. Information Agency press officer in Vietnam, Hong Kong and Taiwan and speaks both Mandarin and Cantonese Chinese dialects fluently.

Donnelly directs a staff of 46, about half of whom are Chinese-Americans or Nationalist Chinese passport holders. There are 10 stringers overseas and seven in U.S. regional centers.

The English-language lessons were developed after the Nixon visit to China, Donnelly said in an interview.

"We beam the same half-hour lesson three times a day for a week so that listeners can benefit from the repetition," Donnelly said.

**DONNELLY SAID** that in addition to the language instruction programs, most of the emphasis is on news and news interpretation programs.

"During five of the 10 hours we run a 45-minute program called, 'Window on the World,' which is a 45-minute show of comments on the news and a survey of U.S. and world opinion on international developments," Donnelly said. "We start each hour with 15 minutes of news and play it straight down the middle when items come up on such things as Sino-Soviet border strains."

So that's the story from the inside, The Inside Story ...  
Broadcasting In China.

(from Richard Wood's  
book, Shortwave Voices -  
of the World.)

At the time of the cultural revolution, Radio Peking ceased to issue specific verifications, stating date, frequency, etc., and merely returned very unspecific CSL cards. Many CSL cards were issued in response to inquiries and totally erroneous reports. However, Radio Peking does occasionally verify reports as this example will obviously attest.

Dear Mr. R.E.Wood

We are glad to confirm your  
reception report on our programme  
transmitted on 15060 Kc/s dated  
Dec.2nd 1968.

Your further reception reports  
on our broadcasts will be welcome.

Yours sincerely,  
Radio Peking

我们是毛主席的红小兵  
北京广播电台

#### ACKNOWLEDGMENTS AND SOURCES:

I wish to thank the following people for their contributions to this study and also to recognize the following sources of information: Al Niblack; August Balbi; Ed Shaw; Chief Monitor G.A. Weston, BEC - Monitoring Service; Rex A. Wockner; "China - Regional Outlets" by Larry Magne, FRENEX, 1972; "Broadcasting Stations of Clandestine, - Exile, Intelligence, Liberation, and Revolutionary Organizations" by Larry Magne; "China Today: Broadcasting Corporation of China", author unknown, Asian Outlook, FRENEX, 1970; "Special Section - People's - Republic of China", author unknown, FRENEX, 1967; "More For China - Watchers", author unknown, FRENEX, 1967; "Chinese Regional Stations" by H. Nagase; the British Broadcasting Corporation Monitoring Service; Shortwave Voices of the World by Dr. Richard Wood; Area Study of the - People's Republic of China, Department of Defense.

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# CLANDESTINE BULLETIN

Larry Magno, 15 Central Avenue, Philadelphia PA 19111 USA, Tel. 215-379-2574

## WHAT CAN I HEAR?

(Part 1 of a series)

As we've noticed, the DX "season" is aborning with results superior to those found last year. Rarities that most listeners had pretty much given up on are perhaps now going to be audible, and among these will be esoteric stations representing insurgent and counterinsurgent groups throughout Europe and the Third World. These are among the first stations professional monitors tune to in a political crisis.

Since none of these stations are directed to the Americas, few persons besides Government monitors and skillful DXers ever knowingly pick them up; part of the reason is that they are omitted -- for obvious reasons -- from the DXer's bible, the World Radio TV Handbook. There are other factors, too, including weak signals and the use of such unusual (and undecipherable) languages as Euzkera and White Mec.

But to the serious DXer these clandestine radio operations offer unusual challenges, not the least of which is obtaining a verification card or letter. Proud, indeed, are the handful of individuals with verifications from Radio Biafra, the original Radio Bangladesh, Radio Courier of Iran or the short-lived Radio Free America. One such verification is so valuable that it is reportedly kept in a safe-deposit box!

What we'll do here -- and from time-to-time in the future -- is to give you leads to allow you to exercise your listening skills in this area. Let the rest of us know how you make out: if you hear a station, send your data in to Log Report; if you are successful in obtaining a QSL, let Henry Rockwood of QSL Report know, send him a clear Xerox copy of it if you possibly can.

Now let's go to it.

\* \* \*

For most North American listeners, the simplest place to begin is Europe. Stations directing their programming to Europe are, with one exception, located in Europe and thus have pretty much the same listening characteristics of such stations as Radio Bucharest or Radio Sofia. The exception is Radio Euzkadi, located in Venezuela.

The best time to listen for these is in the late afternoon on the East Coast of North America, but especially in the dead of winter they can be audible nearly around-the-clock. Farther west the challenge increases substantially and the best clue is to watch how Eastern European stations are faring; if Bucharest is doing fairly well on 25 meters, then it's a cinch you'll have a decent chance to log the Rumanian-based Radio Independent Spain on 12140v kHz, too.

Because of the tendency for clandestines to operate outside the ITU SWBC band limits, broadcaster QRM is less prevalent than it is with legitimate operations. On the other hand, jammer and utility QRM is more common. The best solution for getting around these modes of interference is patience; the jammers are often sloppy and may be fairly ineffective some days, while utilities tend to operate with variable schedules, particularly over the weekend. Sometimes utility interference can be lessened by going to wider bandwidths. The same solution sometimes also works for combating diesel-type jammer interference, the type most preferred by the Soviets.

\* \* \*

It's highly unlikely you'll ever hear this one! But what you see is a very rare photograph of an insurgent short-wave and medium-wave radio station in Europe. It is quite literally underground and operating under the noses of the authorities, which is rare, as most operations beam from the safety of friendly foreign soil.

Daring operations such as this are found mainly in Eastern Europe and Ireland. They also operated during WW II from Nazi-occupied Europe, and in at least one case were secreted underground in cemeteries!

\* \* \*



### SPAIN

#### Radio Independent Spain and Radio Euzkadi

The origin of Radio Independent Spain and Radio Euzkadi is in the fall of the Spanish Republican Government before WW II. Radio Independent Spain went on the air in 1939 and Radio Euzkadi in 1946, making them the oldest clandestine operations still on the air. Their political orientations are different (RIS is pro-communist, RE is pro-Basque nationalist), but their target is the same: the Franco government that overthrew the Republican government in which the Communists and Basques were powerful forces.

Both are given the same impolite treatment by the Spanish secret police: jamming, obnoxious but often ineffective, which is unique in that it sounds like growls and beeps. Perhaps this is to make it seem like utility interference, but few are likely fooled. Interestingly enough, the Chilean junta adopted this strange jamming technique after it came to power, with equally variable results.

Radio Independent Spain operates mainly from a site near Bucharest, Rumania, and is relayed by Radio Sofia. It broadcasts not only in Spanish, but also the regional languages of Catalan, Basque and Galician.

Radio Euzkadi operates from the Caracas area, in Venezuela, where the world's largest expatriate group of Basques is gathered. It broadcasts mainly in Spanish, but also in Basque. At rare times in the past it has also thrown on a brief trailer program in English following the regular transmission. Radio Euzkadi is reportedly not seriously bothered by jamming, as the jammers are apparently not located in the Basque region. However, just to make sure, the station varies its frequency -- sometimes in mid-program -- plus or minus 50 kHz of nominal in order to slip the jammers.

Here are the schedules, with best listening bets for ECNA underlined:

Radio Independent Spain: (Rumanian tx's all reportedly 18 kw each)  
 0600-0655 via Bucharest 7690v, 10110v, 12140v, 14482v kHz  
 1200-1315 (summer) Bucharest 10110v, 12140v, 14482v, 15505v kHz  
 1300-1415 (winter)  
 1235-1255 via Radio Sofia 15365 kHz (Tx K5, 50 kw)  
 1600-1800 via Bucharest 7690v, 10110v, 12140v, 14482v kHz  
 1800-2313 via Bucharest 7690v, 10110v, 12140v, 14482v kHz  
 2005-2025 Tues-Sat via R. Sofia 15185 kHz (Tx K5, 50 kw)

#### Radio Euzkadi:

Winter: 1828-1900, 1928-2000 & 2028-2100 on 12070v, 13250v kHz (nom. 80 kw ea.)  
 Summer: 1928-2000, 2028-2100 & 2128-2200 on 12070v, 13250v kHz (nom. 80 kw ea.)  
 In the recent past the schedules were one hour later.

The ID for Radio Independent Spain is "Habla (or Aquí) Radio España Independiente". Another clue is that it signs on with soft, pleasant chimes. It often verifies with a magnificent QSL card drawn up by Pablo Picasso; send your report in English, Spanish or French (with IRCs) to Box 359, Prague 1, Czechoslovakia.

The IDs for Radio Euzkadi are (Spanish) "Aquí Radio Euzkadi, la Voz de la Resistencia Vasca", (French) "Ici Radio Euzkadi, la Voix de la Résistance Basque", and Euzkera (Basque) "Emnen Euzkadi Irratia". However, the best bet is their English ID, right at sign on, "This is Radio Euzkadi, the Voice of the Basque Underground". It signs on with 8 chimes notes and signs off with the Basque National Anthem. It sometimes verifies by a QSL card hinting the station is really located in the Pyrenees. Be patient, however: the staff is overworked and gets around to QSL cards maybe once

every year or two! But they are friendly and sincerely appreciate good and legitimate reports. Send them yours in Spanish, French or English (or Basque, if you want to stand out from the crowd) to B.P. 59, Poste Centrale, 75790-Paris Cedex 16, France, and you might enclose some IRCs or French mint stamps.

For more detailed information on Radio Independent Spain, see the June 1973 issue of FRENDX. For a revealing exposé on Radio Euskadi, see Don Jensen's article in the February and March, 1974, issues of FRENDX.

Thanks to Don Jensen, Rumen Pankov, the BBC Monitoring Service (whose copyright data was reproduced by permission), Don Jensen, Gregg Calkin, and John Campbell, whose diligence has made this writeup possible.

Black & white does not do this breathtaking gold and azure on cream verification justice, but it could be your only verification card worthy of being framed in your study...if you know how to get it.

Especially painted for Radio Independent Spain by Pablo Picasso, it features his oftseen woman's face blending into a rising dove of peace highlighted over a golden relief map of Spain, with the letters "REI QSL" jotted in the lower right hand corner. This must be the only recognized work of art (a reproduction, but nobody seems to know the whereabouts of the original) uniquely available to DXers and SWLs.



### RADIO EUZKADI — EUZKADI IRRATIA

Date: 30. Avril 71 196

- |                                    |        |  |
|------------------------------------|--------|--|
| <input type="checkbox"/> 20.30 GMT | 80 K W | <input type="checkbox"/> 23 m. 13.250 KHz. |
| <input type="checkbox"/> 21.30 GMT |        | <input type="checkbox"/> 19 m. 15.080 KHz. |
| <input type="checkbox"/> 22.30 GMT |        | <input type="checkbox"/> m. _____ KHz.     |

"La Voix de la Résistance Basque"

"The Voice of the Basque Underground"

\*\*\*  
 "There's radio in them there hills", or so Radio Euzkadi would have us believe. Actually, the station basks in the warmth of tropical Venezuela.  
 \*\*\*

Basques were a free nation throughout history. Franco's uprising in 1936, assisted by Hitler and Mussolini, crushed the Basques depriving them of the remnants of their ancient freedom. Now under Spanish rule, without elementary human rights, Basques fight under cover to restore democracy in their land.

Les Basques: un peuple uni par l'histoire, par sa langue et par sa volonté de vivre en liberté. Le but de notre lutte est une Euzkadi libre dans une Europe unie en délivrant le peuple basque de la tyrannie.



**NEXT MONTH:** More stations to hear during the current DX season...in Europe and elsewhere. This, along with the latest news on clandestine radio developments, in the December issue of North America's most helpful international radio magazine, FRENDX.

All headquarters mail handled by  
Dan Ferguson

HELPING HAND (member's ads)

WANTED Modification to convert the Drake R-4Bb half-wave audio (in the AM mode) to full wave. Larry Magne's approach will not work as my receiver is an alternate series. Will send schematic and other pertinent information. Any help concerning this matter will be greatly appreciated. Write or call: Steve Wallace, 503 Lindbergh Way, Lewistown, PA 17044. 1-717-248-8745.

Editor's note: General information on the above subject, as well as specifics for the more common communications receivers, would be a good topic for an article for SWC. Write Charlie Wootten if you are knowledgeable on the subject and would be interested in writing such an article.

WANTED HRO-500 receiver. Write David Mackes, 6 Stanley Drive, Baltimore, MD 21228

WANTED Manual for BC348 receiver and conversion data. State price, to George Geraghty, 2561 Motor Parkway, Ronkonkoma, NY 11779

FOR SALE Craig 1306 AM/FM/SW receiver still in box, \$75. Hallicrafters S38C receiver in good shape, \$40, both ppd. LEWIS WERNER, 11629 MORRISON ST. NO. HOLLYWOOD, CA 91601

FOR SALE Hallicrafters HQ200 receiver (general coverage), in mint condition, not a scratch, cannot be told from new, complete with speaker, manual, and original shipping carton. Actual 10 hours air time use. Fully guaranteed in every way...\$175, you pay shipping costs. Write or call: AL NIBLACK, 420 SHELBY STREET, VINCENNES, IND. 47591. Phone 812-882-3976, before 2000 GMT.

FOR SALE/TRADE: AN/SRR-13 receiver for \$400, including tech manual and power test extended. You ship. OR trade for any one of following complete working receivers, including tech manual: Collins 51S-1 or 75S-3C; Galaxy R1530 or R530; Drake SPR-4 or R4C or S7A. These Drake receivers must have complete coverage 2.5 - 5 mhz plus all international SW bands (11-49 meters). In case of trade we each pay own shipping. Write before you ship. CHARLES A. WOOTTEN, 4911 BATTERY LANE, APT. 1, BETHESDA, MD 20014

FOR SALE AMECO PCL-P preamplifier, new condition, \$28 ppd. Write or call after 6 pm ESR, Solomon Wilson, 8048 Rodney Street, Philadelphia, PA 19150. Phone 215-CA4-5382.

\*\*\*\*\*  
ANNOUNCEMENT COUNTRY LIST ADDITIONS.....

By action of the NASWA Country List Committee:  
The following countries are added to the NASWA Country List....

ANTARCTICA  
1. Antarctica

ASIA  
6a. Bhutan

EUROPE  
35a. Scotland

The additions are made because of recent SWEC activity at the three locations. Antarctica is added on the strength of American Forces Antarctic Network activity at McMurdo and also adds an additional continent. Bhutan is added now that a competent Indian DXer has indicated that Radio NYAB is, indeed, broadcasting. It is confirmed by word from a Swedish staff member of the station as reported in Scandinavian bulletins. Scotland is added on the strength of European reports and confirmations of at least one Scottish pirate station occasionally heard.

Don Jensen, Chairman  
NASWA Country List Committee

\*\*\*\*\*

## ABBREVIATIONS

The following abbreviations are commonly used in NASWA's FRENDX and FLASHSHEET. They have been chosen in order to avoid possible mis-reading, and at the same time to save space. We would prefer not to have to use abbreviations, but they are necessary.

\*0000 = s/on = sign on  
0000\* = s/off = sign off  
// parallel  
a, A, approximate  
AP A Portugessa  
ARO Amateur Radio Operator  
BADX British Association of DXers  
dial dialect  
EIR East is Red  
FBIS Foreign Broadcast Information Service of the CIA  
f/i fade in  
f/o fade out  
fund fundamental  
GSTQ God Save the Queen  
ham same as ARO  
Indo=Indon= Indonesian  
Int Internationale  
IS Interval Signal or Islands  
ITU International Telecommunications Union  
JKT Jemmin Kwangpo Tientai  
lang unknown language  
lbn letterbox  
LL language lesson  
lcl local  
mod modulation  
mx music  
NA National Anthem or North America  
NF new frequency  
nx news  
px program(ming)  
QC quarterly frequency change  
QRM interference  
QRN static  
QSB fading  
QTH geographic location  
rel religious  
rev revolutionary  
RF reactivated frequency  
s/b should be  
t or T = tentative  
TC time check  
tk talk  
tlk talk  
tx transmitter or transmission (should not be used to mean "talk")  
UTE utility station  
v varies  
vern vernacular  
w/ with  
W woman  
w/b will be  
wx weather

Af = Afr = Africa(n) or Afrikaans  
As = Asia(n)  
CA = Central America(n)  
Eu = Europe(an)  
Pac = Pacific  
SA = South America(n)

AA Arabic  
Afr Afrikaans  
BB Bengali  
Cant Cantonese  
CC Chinese  
CS Czech-Slovak

DD Dutch  
EE English  
FF French  
GG German  
II Italian  
JJ Japanese  
KK Korean (sometimes Khmere)  
MM Malay  
NN Norwegian  
Pid Pidgin  
PP Portuguese  
RR Russian  
SC Serbo Croat  
SS Spanish  
TT Turkish  
VV Vietnamese

Freq = fqy = frequency

All times in FRENDX are in GMT, 24 hour time.

When 3 digit numbers are given in the LOG REPORT, these are "SIO" numbers, rating the received signal. The criteria are:

### Signal Strength - S

5 = Excellent, greater than S9 + 20 db  
4 = Good, between S9+5 db and S9 + 20 db  
3 = Fair, S7 to S9 + 5 db  
2 = Poor, S3 to S7  
1 = Barely audible, less than S3

### Interference(from other stations) - I

5 - none, 4- slight, 3- moderate,  
2- severe, 1 - Extreme

### Overall Merit - O

5 = Excellent(local quality), 4 = good,  
3 = fair, 2 = poor, 1 = unseable.

(NOTE Each evaluation is made independently of the others, both in the SIO system, and in the SINPO system.)

When 5 digit numbers are used for signal rating purposes (seldom in FRENDX), the SINPO system is being used. The "N" is for "noise" (atmospheric noise), and the "P" is for "propagation" (usually restricted to fading). As with SIO, the rating for N and P run from 5 (the best) to 1 (the lowest).

We suggest that this abbreviations list be kept handy for easy use.

### ADDITIONAL NOTES:

# QSL Report

NEW EDITOR NEXT MONTH

BOB ZABOT  
KEMPSHIRE MANOR  
5010 AMBOT COURT  
VIRGINIA BEACH, VA 23462

## IMPORTANT NOTICE

This month QSL REPORT was again edited by Henry Rockwood and Robert C. Willes. Due to an unforeseen change in job assignments Henry advises that he will have to be doing a lot of traveling in the next few months, and that it would be necessary to omit the January QSL REPORT, and to run future QSL REPORTS one month behind. It was felt that it would be better to avoid having to do that if possible, and Bob Zabot has graciously offered to edit this section in the future. Henry will be sending all reports he has on hand on to Bob, and all future reports should go directly to Bob. (Dan Ferguson at HDQ)

## \*\* QSL NEWS \*\*

Two members have achieved note-worthy marks in their DXing careers:  
Congratulations to Bob Padula for country number 200 verified.  
Congratulations to Myron Smith for country number 100 verified.

Now to the QSLs received this month....including LAOS...

## \*\* QSLs RECEIVED \*\*

- ALBANIA: R.Peking Relay, 7120, card & pennant in 22 days airmail. (Smith)  
ARGENTINA: R.A.E., 11710, full data globe card, with sked, in 6 months for 2 IRCs. (Fino)  
Same in 5 months. (Quinn)  
R. Nacional, 11780, green & white card for special H.S. Broadcast, received in 7 months. (Padula)  
ARMENIAN SSR: R. Yerevan, 5915, full data card in 2 months airmail. (Hanner) 15180, full data card in 68 days. (Hardester)  
ASIATIC SSR: R. Moscow, via Vladivostok, full data card in 22 days airmail. (Smith)  
AUSTRIA: ORF, 6155/9770, 2 cards, sked in 1 month for ORF report form. (Brooker) 9770, castle card w/all data in 4 months. (Quinn)  
AUSTRALIA: R. Australia, 6160, mistletoe card, 203 days. (Mayer) 9580/11710/15320/17795, 4 cards, 17 weeks. (Brooker) 15355, card in 197 days. (Mayer) 15160, fish card w/all data & pennant in 30 days via air. (Parker) 15320, full data flower card in 4 months. (Quinn)  
AZAD KASHMIR: Azad Kashmir Radio, letters, 2 weeks air for 3 IRCs after follow-up. V/S is M. Sajjad Ali Siddiqui. (Sparks)
- BELGIUM: ORU, 9655, card in 28 days. (Werner) 11935 card & sked in 10 wks air (Padula)  
BOLIVIA: R. La Cruz del Sur, 4875, KE letter & card with sked & pennant in 2½ months air for Spanish report and mint stamps.  
BRAZIL: R.Nacional de Brasilia, 15245, air card & sked, 30 days (Brooker) Full data card, pennant in 85 days. (Smith) 15445, card, sked, pennant in 14 weeks air for 1 IRC. (Fino)  
BULGARIA: R.Sofia, 9700, card & sked in 17 weeks. (Brooker) Cards w/full data, sked, in 7 months airmail for 1 IRC. (Fino)  
BURUNDI: R.Cordac, 4900, full data card, 30 days for 2 IRCs. V/S- Leroy Little. (Dean)  
LV de la Revolution, 3300, folder card w/all data except time in 7 weeks air for French report and 2 IRCs. (Hanner)
- CAMEROON: R. Yaounde, 4972, card w/all data, 7 weeks air for French rpt, 2 IRCs (Hanner)  
CANADA: R.C.I., 9755 cycle card w/all data, 24 days (Parker) 11825 same. (Brooker)  
CRFX, 6070, card in 19 days. (Gross)  
CANARY IS: RNE, full data card & pennant in 160 days. (Smith)  
CENTRAL AFRICAN REP: CATVBC, 5040, letter, 50 days for 1 IRC. (Smith)  
CHILE: LV de Chile, 15150, full data card, 36 days for Spanish report, mint stamps. (Hardester) Full data card, 28 days. (Werner) Same in 2 mo. for Spanish report. The V/S was Gustavo Heitmanns. (Dean)  
CHINA: R.Peking, 15385, dolls card, 14 days airmail (Meehan)  
COLOMBIA: R.Nacional, 4955, card & pennant in 3 mo for Spanish rpt & 1 IRC. (Hanner) Card, pennant in 4½ mo. air, for Spanish rpt, mint stamps. (Bovlsby) Bridge card & pennant in 89 days for Spanish report, mint stamps. (Hardester) 9635, card in 38 days for Spanish rpt, 1 IRC. (Smith)  
R. Super, 6065, full data card in 16 days air for 1 IRC. (Rockwood)  
COSTA RICA: R.Universidad de Costa Rica, 6107, card, 12 days after 2/up for mint stamps (Sparks)  
CUBA: R. Havana, 11930, card & letter in 15 weeks. (Brooker)  
CZECHOSLOVAKIA: R. Prague, 11990, view cards w/all data, 3 months for 1 IRC. (Fino)

DENMARK: R. Denmark, 9520, aerial card w/all data, sked, 13 d air for 2 IRCs. (Fino) 15165, full data card 13 d air. (Werner) Sam in 13 d air. (Meehan) Same 2 wk, 2 IRC. (Walenter, Same, plus sked in 11 days airmail. (Mayer)

DOMINICAN REP.: R. Clarin, 4850, Spanish letter, pennant, 47 d air for Spanish report and 2 IRCs. (Walenter)

RTVD, 5970, Spanish letter, 6 weeks for Spanish report. (Hanner)

ECUADOR: HCJB, 11915/15115, mountain cards w/all data, pennant, 20 d air for US stamps. (Parker)

CRE, 4765, SS letter, pennant, coin, 2 months air for SS rpt and mint stamps. V/S Laura Siquenza S. (Bowlby)

Escuelas Radiofonicas Populares, 3985, SS rpt, pennant, 2 IRCs. (Hanner)

R. Nacional, 4940, SS letter, 6 mo, V/S Carlos A Espinosa c/e Los Menteros.

(Behr) \*\*\*NEW ADDRESS: Casilla 82, QUITO \*\*\*

EGYPT: R. Cairo, 9475, card, sked, 34 days. (Brooker) Card, sked, 27 days. (Jones)

ETHIOPIA: ETLF, 11925, full data card, 67 days for 1 IRC. (Smith)

EUROPEAN SSR: R. Moscow, 11730, flag card w/all data in 34 d air. (Parker) 12005, acknowledgement from Mrs. Stepanova, sked, 25 d air. (Fino) 15180/15210, cards, pennant, 33 days air. (Meehan)

R. Peace & Progress, 11995, full data card, sked, 3 mo air. (Fino)

R. S. Atlantika, 15440, full data card 40 days. (Smith)

FINLAND: R. Finland, 15185, spring card w/all data in 12 days. (Parker)

FRANCE: ORTF, 9680, full data card 16 days. (Werner) 15155, orange card 2 wks. (Brooker)

GABON: RTV Gabonaise, 4777, full data card in 95 days for 1 IRC. (Smith)

GEORGIAN SSR: RM via Tbilisi, 11820, full data card in 6 wks airmail. (Hanner)

GERMANY (W.): DW, 6045, full data card in 1 year. (Werner)

GREAT BRITAIN: BBC, 7210/7230/7325/11820, personal letter from Ms D.Y. Pegg, sked, 2 weeks, airmail. (Fino)

GREECE: HNEI, Athens, 9520/9630, cards, sked, 3 mo after f/ups. (Padula)

HNEI, Thessalonika, 7290, card, 3 weeks air after follow-up. (Padula)

GUATEMALA: R. Cultural, 3300, Quetzal card, 6 weeks air. (Hanner)

LV de Mahuala, 3360, full data card, 21 days for SS rpt, 1 IRC. (Smith)

GUINEA: V. de la Revolution, 9650, letter, 48 days for 1 IRC. (Smith)

HAITI: 4VEH, 11835, freedom card w/all data, 5 weeks air for US stamps. (Brunner) 11835, card w/all data in 137 days. (Parker)

HAWAII: WNVH, 15000, native card, 29 days. (Meehan) Card w/all data in 13 days. (Parker)

HONDURAS: HRVC, 4820, full data card, 23 days for 1 IRC. (Smith)

R. Progreso, 4920, letter w/all data, pennant, 1 mo airmail for Spanish

report, mint stamps. (Bowlby)

HUNGARY: R. Budapest, 6130/15220, 2 cards in 10 weeks. (Padula)

INDIA: A.I.R., 9525, full data card in 4 mo for 2 IRCs. (Dean) 9750, Madras, letter from D. Ramachandra, 5 weeks airmail. (Padula)

INDONESIA: RRI Ambon, 4845, full data card & Indo letter in 5 1/2 mo air for Indo rpt and mint stamps. (Bowlby)

RRI Banjarmasin, 3250, letter in 5 mo after f/up for Indo report and mint stamps. (Henderson)

RRI Manokari, 6185, full data card, 11 weeks air for Indo rpt. (Hanner)

IRAN: V. of Iran, 9022, full data card & pennant in 4 1/2 mo. (Quinn) Full data card, letter in 4 months airmail for 2 IRCs. (Fino)

ISRAEL: IBA, 9009, menorah card w/all data in 4 mo air for mint stamps. (Fino) 12025, card and sked in 4 weeks air. (Padula) 12025/15100/15490, menorah card & sked in 39 days for

IBA report form. (Brooker) 15490, city card w/all data 13 days air for 3 IRCs. (Parker)

ITALY: RAI, 11810, painting card in 15 weeks. (Brooker)

IVORY COAST: RTV Ivoirienne, 11920, full data letter 3 1/2 mo after f/up for mint stamps. (Bowlby)

JAPAN: R. Japan, 9505, samurai card, sked, 2 weeks for R. Japan form. (Brooker) 9595, full data card in 18 days. (Werner) 15105, yokuzuma card in 13 days. (Meehan)

KIRGHIZ SSR: RM Frunse, 17825, full data card in 3 wks airmail. (Hanner)

KUWAIT: R. Kuwait, 15415 folder card w/all data in 73 days air for 1 IRC. (Smith) Same in 43 days. (Rockwood)

LAOS: Vientiane, letter in 3 weeks airmail for 3 IRCs. (Young)

LIBERIA: ELNA, 11950, full data drummer card, sked, 3 mo air for 1 IRC. (Hanner)

LITHUANIAN SSR: R. Vilnius, 9750, full data card in 85 days. (Smith)

MALAWI: MBC, 3380, full data letter in 17 days for 1 IRC. (Smith)

MALAYA: BBC Relay, card in 19 days. (Smith)

MALTA: DW Relay, 9745/15225, 2 cards for test transmission, 3 weeks airmail. COUNTRY NUMBER 200 VERIFIED!!! (Padula)

MEXICO: XBUS, 6115, card in 18 days for Spanish report & 1 IRC. (Werner)

NETHERLANDS ANTILLES: R.Nederland, 6165 full data card in 33 days (Werner) 9715, DX Handicap Aid card w/all data, pennant, 47 days. (Meehan)  
NETHERLANDS: R.Nederland, 11730, full data card in 12 days air (Werner)  
NEW BRITAIN: NBC Rabaul, 5985, folder and letter in 6 weeks for mint stamps. (Padula)  
NEW ZEALAND: RNZ, card in 5 months for 2 IRCs. (Werner)  
NIGERIA: NBC, 4932, 7257, full data cards, 39 days. (Smith)  
NORWAY: R. Norway, 11850, costume card w/all data, sked, 8 days air for 2 IRCs (Fino)

PAPUA/NEW GUINEA: R.Kerema, 3245, letter in 14 days after f/up for 3 IRCs. (Sparks)  
 R. Weuak, 3335, letter 1 year after 2 f/ups, for mint stamps. (Yamron)

RHODESIA: REC, 2336, wilde beeste card in 7 weeks. (Hanner)

RWANDA: Deutsche Welle, 15330, full data card in 100 data. 100th COUNTRY VERIFIED\*\*\* (Smith)

SAUDI ARABIA SABC, 15260, full data card & sked, letter, V/S AM Swailem, 18 days airmail for 2 IRCs. (Garou)

SICILY: RAI-Caltanissetta, 7175, card w/all data except site, 3 months. (Hanner)

SIERRA LEONE: SLBS, 5980, full veri letter 6 mo after f/ups, via air. (Hanner)

SOLOMON ISLANDS: SIBS, 5949, full data card, 15 days. (Hanner)

SOUTH AFRICA: RSA, 5980, full data baobab card in 16 days air (Meehan)

SPAIN: RNE, full data card, sked & pennant in 78 days. (Hardester)

SWITZERLAND: SBC, 9535, card in 41 days (Gross) Market card 33 d for SBC form (Brooker)  
 Red Cross, 7210, full data card 1 mo airmail. (Hanner)

SYRIA: SBS, 9655, globe card w/all data in 18 months. (Behr)

TAHITI: R.Tahiti, 15170, cartoon card & sked in 76 days air. (Meehan)

TAIWAN: VoFC, 17720, full data genie card, sked, pennant, 47 days airmail. (Mayer)

Card with all data in 6 weeks. Quinn)

TANZANIA: V. of Tanzania, card in 3 months air for mint stamps. (Bowlby) (Bowlby) /

THAILAND: Bangkok Met. Radio., 7863, folder card in 8 weeks airmail for mint stamps.

UKRAINIAN SSR: R. Kiev, 17900, card, sked, 89 days air. (Meehan)

UNITED ARAB EMIRATES: BS of UAE, 9620, full data airport card, 10 wks airmail. The V/S was a randul. (Hanner)

UNITED STATES: AFRITS, 15430, card w/all data in 12 days (Parker)

KGEB, 11900, card, pennant, sked, 14 wks for 2 IRCs (Padula)

WYFR, 15135, card, sked, 2 wks. (Padula) 15440, mike care w/all data in

12 days. (Parker)

U.N. Radio, 15135, card w/all data in 7 days. (Parker)

VoA, Bethany, 6100/6130, full data cap. card, 5 days (Fino)

VoA, Delano, 11850, card in 8 days. (Werner)

VoA, Greenville, 11955, card w/all data, 2 weeks (Fino) 17785, card w/all

data in 8 days. (Parker)

VENEZUELA: Ecos del Torbes, 4980, SS letter, pennant in 2 mo for SS rpt, 2 IRCs (Walenter)

R. Juventud, 4900, card 1 mo air for SS rpt, 1 IRC. (Bowlby)

R. Nacional, 11750, full data letter, sked, 54 days surface for 1 IRC (Mayer)

R. Rumbos, 4970, full data card 76 days for SS rpt, 1 IRC. (Werner) card w/all data 2 1/2 mo air for SS rpt & mint stamps. (Bowlby)

R. Yaracuy, 4940, card 6 weeks airfor Spanish rpt. V/S Jaime Romero. (Padula)

VIENTNAM(N): V. of Vietnam, 15012, full data card, 120 days for 1 IRC. (Smith)

VIENTNAM(S): VTVN, 4877, full data card 1 mo after f/up for VV Andee rpt, mint stamps. (Bowlby)

ZAIRE: La Voix du Zaire, 15245, no data letter, 107 days after FF report, 1 IRC. (Mayer)  
 Same in 79 days for FF rpt, 2 IRCs. (Hardester) Same in 3 mo for FF Report. (Hanner)

#### CREDITS

Jeff BOWLSBY, Vancouver, BC, Canada; Jim Brooker, Troy, MI; Charles Brunner, Salford, PA; Dennis Dean, Dayton, Ohio; Henry Fino, Rochester, NY; A.L. Garron, Boston, MA; George Gross, Willingboro, NJ; Bob Hanner, Australia; Mike Hardester, Modesto, CA; Dan Henderson, Laurel, MD; David Jones, Virginia Beach, VA; Al Mayer, Park Forest, IL; Jim Meehan, Berkeley, CA; Bob Padula, Australia; Bill Quinn, Moira, NY; Henry Rockwood, St. Clairsville, Ohio; Bill Sparks, San Francisco, CA; Myron Smith, Spencerport, PA; John Walenter, Franklin Park, IL; Lewis Werner, N.Hollywood, CA; Larry Yamron, Boston, MA; Jim Young, Wrightwood, CA

Thank you, gentlemen!

# LISTENER'S



Dan Jamison  
310 Roanoke Street  
Apartment 21  
Richmond, VA 23225

Deadline: 15th

We have quite a few reporters this month and alot of interesting information. For that reason, we will not have this month's SPOTLIGHT, but instead we will use that space for DX news. Speaking of DX news ...

ANGOLA Emissora Oficial was noted with its EE pgm from 1445-1515 on 11875; tho WRTH lists it at 1500-1545. Then the French pgm was heard at 1515-1543. The female ancer said these pgm's are daily except holidays (poss Sun's too). Sta ID was given as "you are tuned to the National - Radio Station of Angola". 9535 was anced as // but the only // noted was 9660, which was much weaker than 11875. S/off was at 1543. (Steve d'Adolf)

ARGENTINA Rdf Argentina al Exterior is scheduled to b/c to ECNA at 0100-0300 on 9690 in SS, and 0300-0400 in EE - also on 9690. WCNA listeners tune the same freq at 0400-0600 for the SS bc and 0600-0700 for the EE b/c. (Dr. S. Baranovsky, OH)

BELGIUM Look for RTE to NA at 2255-2315 & 0040-0100 on NF-9785, 6055 to SA at 2255-2315 & 0040-0100 on NF-9785, 11855 (thanks to Pat Tobin, PA; Dr. S. Baranovsky, OH; Larry Magna, PA; C. Wootten)

CANADA Our northern neighbor will effect their winter sked on 11/3 fm their Sackville xmtr's. Give them a whirl at  
0100-0157 NA-I & Caribbean Svc 9755, 6085      Look for their MALTA  
0400-0457 NA-II Svc 9655, 6135      RELAY fm  
0500-0557 NA-III Svc 9655, 6135      0530-0730 7250, 6100  
1115-1215 NA-IV & Caribbean Svc 11825, 9655, 5970.      1800-1857 6110  
(Direct fm Radio Canada International)      2102-2159 7225, 6100

CHINA The Peihai Fishery Broadcasting Station located in the Kwangsi - Chuang Autonomus Region is now operating on 8750, tho an'ing 8790. (In the past, they have used 8777) The sked is fm 2240-2400, 0310-0505, and 0950-1235. Pgm's are in Cantonese. (by permission, BBCMS)

The IKECHAO regional relay station of the Inner Mongolia People's - B/c'ing Svc at Tunsheng has recently been observed on 4525 relaying Peking's First Pgm and also relaying pgm's fm Huhshot. The sked is 2125-0101 and 0945-1401. (by permission, BBC Monitoring Service)

CLANDESTINE The VOICE OF THE NATIONAL UNITED FRONT OF CAMBODIA has been observed using the following sked on 12005, 10120, 10080, 9988, 7015, 4675.  
2300-2400      0400-0500      1130-1230  
0001-0100      1030-1130      1330-1430

The VC's Liberation Radio b/c's to Europe in Vietnamese fm 1900-2000  
The freq's are 14990 & 10012      French      2000-2030  
English      2030-2045

The VOICE OF IRAQI KURDISTAN can now be hrd at  
1600-1730 (to 1800 on Fri) in Kurdish  
1730-1800 (Sun, Tu, Thu) in Assyrian; but in Turkmen on (M, W, Sa)  
1800-1900 in Arabic  
1900-1925 in English      FREQ'S are 10055 and 6940  
(by permission, BBC Monitoring Svc)

FINLAND The Finnish B/c Corp. uses its 100 KW jobbie on 9585 for its North American Svc fm 0300-0400. (Kevin Szot, CA)

BRAZIL (under the "B" column ...) R. Nac. Brasilia beams EE to Europe on 11780 fm 2105-2200. (this via Mike Peraaho, MN and Charlie Wootten, MD)

DENMARK R. Denmark says that their NA evening b/c has been dropped and that their xmsns to SA are now sked'led at 2000. All xmsns are on 15165, including the ones to NA at 1200 and 1600. (Charlie Wootten, MD)

HAITI Despite the rumor, Radio Haiti-Inter does not intend to b/c on SW, as indicated by owner Jean Dominique in Port-au-Prince, several months ago. There are two reasons: 1 - the MW outlet on 1330 has been boosted to 10 KW and 2 - a new all-Creole station is planned on 1120. .... Accordingly, Radio Station 4VEH and Radio Citadelle (irregularly) are the only Haitian stations to be hrd on SW. (very interesting Victor; Victor Jaar, Canada)

ISRAEL The IBA indicates pgms will be 1 hour later fm Oct 13. New hi-pwr antennas are being worked on for the next few weeks, so for now the pwr's are reduced somewhat, but in time, say, November, things should improve dramatically. The IBA has inaugurated a new regular fortnightly DX pgm starting Oct. 12. This will be brd around 2030 or 2040 as part of the Letterbox pgm and will be the first regular EE language DX rpt fm the Middle East. Upcoming dates are Oct 26, Nov 9, 23, 30, and Dec 7 & 21. The full IBA sked is planned to be announced at roughly 2050 daily in EE. However, as of now the highlights are (until antenna work is completed):

0500-0530	EE/FF	on 7395, 9009, 9495, 12000
1130-1230	EE/FF	12025, 15100, 15130, 17690
2000-2055	EE	7395, 9495, 9815, 12025, 15100, 15490, 17690, 9009
2200-2245	FF	5900, 7395, 9009, 12025
-2300	AA	5915

Due in part to letters to the IBA's Letterbox pgm fm NASWA members, the IBA is contemplating EE to North America once again, probably in the 2300-0500 time period, or part of that period. .... so keep those letters up gang. (many thanks to Larry Magne, PA and George Schnabel, NY)

IRAN R. Tehran now has English on 9022 at 2000. (Charlie Wootten, MD)

JAPAN R. Japan beams to NA at 2345-0045 on 15445 and 15270 in EE, and to NA, LA, and Hawaii at 0100-0300 on 17825, 17725, 15195, and 15235. In this b/c, the 1st 30 min's are in JJ, next 60 min's in EE, then SS. (many thanks Kevin ..... Kevin Szot, CA)

LIBYA Irregular operation of the main domestic svc has been noted on the out-of-band freq of 8630. No times were quoted, but the BECMS indicates that you might tune "until after midnight and for a short period during the morning." (East Coast reception has occurred around 1800.- ed) (by permission, BECMS)

MALTA DW Relay Station:

0120-0400	on 9745	1800-1850	on 9590, 7160
0120-0510	11865	2140-2230	5955
0440-0515	6065	2300-0110	15225, 11865
1600-1750	11705, 17875	Ancmts are in GG and EE	

(thanks to Richard Schwartz, DE)

MOROCCO Moroccan Radio and Television has introduced two weekly pgms under the title of "Voice of the Moroccan Sahara"; one b/c is in the main Arabic svc on Tuesdays fm 2100-2130; the other one is given in the TV svc at 2100 on Sundays. Try 9615, & 6190 for this b/c (by permission, BECMS)

NIGER Steve Estes, VA, rpts the following sked received with his QSL fm ORTN in Niamey; Mon-Fri 0530-1330, 1500-2300 The freq's are  
Sat 0530-1330, 1500-2400 3260, 5020, 7155  
Sun 0800-2300 9575, 9705

NIGERIA English from the Voice of Nigeria may be monitored fm 0555-0735 b/c'ing to Afr., ME, & Eur on 15185, 11770, 7275  
1530-1700 " " 15185, 15120, 7275  
1800-1930 " " 15120, 11770, 7275  
(by permission, BBC Monitoring Svc)

PAKISTAN Radio Pakistan from Karachi has an English b/c fm

0230-0245	to the Far East	on 21730, 17830
0430-0445	East Africa	21590, 17830, 15325
1100-1115	West Europe	17910, 15115
1330-1620	Bangladesh	9460
1530-1545	Middle East	15520, 11672
1745-1800	East Eur & Moscow	11672, 9690

(by permission, BECMS)

SIERRA LEONE Ken Earhart, PA, rpt's receiving a slightly different sked fm SLBC than the one listed in WRTH. It reads that now, the 0745-1015 and the 1230-1740 xmsn is now on 5980 and the 0555-0730 and 1745-2330 b/c is on 3316.

SPAIN Madrid can be found b/c'ing to Canada and the US fm 0100-0345 on 6065 and 11925. (via Victor Jaar, Canada)

THAILAND Bangkok Met. Radio uses a Collins 208U, 10 KW transmitter, feeding a rotatable horizontal log periodic antenna. The freq is 7863. (once used 11645 us apparently no longer used. The sked is fm 0000-0330 and 0600-1330. (very good Jeff...Jeff Bowlsby, Canada)

PERU The following observations of Peruvian sta's were made during Sept:  
 RADIO TROPICAL, Tarapeto, 9710 and ances 4935, sked 1100-0500  
 RADIO SAMAREN (formerly Radio Amazonas), Iquitos, 9770, 4815, 1100-0500  
 RADIO SIDERAL, Pucallpa, 9755, no other details available  
 RADIO DEL PACIFICO, Lima, 9675, sked 1145-0500  
 RADIO NACIONAL DEL PERU, Lima, OAX4T 9562, anced OAX4Z 6082, 1100-0500  
 RADIO LA CRONICA, Lima, 9521, sked 1100-0500  
 RADIO AMERICA, Lima, 9504, sked 1030-0500  
 RADIO EL SOL, Lima, 5970, sked 1030-0500  
 (by permission, BBC Monitoring SVC)

SWAZILAND Concerning the SPOTLIGHT article on Swaziland which appeared in the Sept. LN; Dan Robinson says, "the studios of Swazi Music Radio are, as previously mentioned, in Johannesburg, in the 'Republic' as local people call it, but one place that the xmtr site is not is in Mbabane. The xmtrs of SMR are located at a site which is within eyesight of the South-African border near the small border post of San Dlane in the central South-West of the Cntry (Swaziland). Located on the top of a small hill, I was quite impressed with the location and the efficiency of the site." Dan also writes, "The 100 KW xmtr of SMR which I actually saw sitting in the xmtr room, will by put into svc soon. At this time, ALL PGM'ING WILL GO TO 18 HOURS A DAY. A change of freq's will also take place then. The freq used for the 100 KW xmtr will be 3930 with the following also being used: 6155, and tentatively 4980, 7105, 3223."

And about TWR-Swaziland, Dan also notes that 3203 and 3388 are now out of consideration as being usable, 3920 is possibly one alternate. 4790 is very likely as are all other 60 meter freq's. Only 6175 and 7135 are "fairly certain".

(very good Dan ... Dan Robinson, PA - ex-Swaziland)

USSR Minsk is listed on 7250, 7440, 9480 and 17800 fm 1800-1830 and on 5960, 7160, 7360 fm 2130-2200  
 Vilnius operates at 2230-2300 on Sa & Su on 11770, 11850, 11980, 12070  
 0030-0100 on Su & Mo on 9595 and 15440  
 Lithuanian is b/c everyday on the same freq's @22-2230  
 (via Ken Earhart, PA)

ETC. ... NEW DX COLUMN Long time NASWA'er and veteran DX'er, Glenn - Hauser, OK, will have a column which will appear next in the November issue of POPULAR ELECTRONICS. It is entitled DX LISTENING and will cover shortwave and other aspects of DXing. Why don't we all pick up a copy. If you like the column and wish it to continue, you are encouraged to write directly to PE's editorial director, Mr. Authur P. Salsberg.

And that is about it for another LISTENER'S NOTEBOOK. We will be back at the regular page allocation next month. A hardy word of thanks is extended to all of our contributors for their valuable and interesting contributions to LN. We are looking forward to receive some material from YOU! Schedules, observations, tid-bits, and general information are always welcome. Please, all times in GMT and use only one side of the paper. If you desire the return of your sked, please enclose a SASE and it will be returned to you promptly. See ya next month!

73 and Happy Listening!

AD

This well-known critter lurks near radio receivers and transmitters alike. Its reflective body cannot help but produce radio signals on frequencies not actually used by transmitting stations. It is also responsible for RF ghosts, images, harmonics, receiver hetrodying, and spurrious radiation injection, etc. Easier controlled than the Quacophanai Radiocera - Multijammera but still quite a pest.



Miss Diane Levesque



# LOG REPORT

# A

EDITOR: ROBERT J. HILL, JR., 2923 FLORENCE ST., # 304, BERKELEY, CA 94705

(Frequencies: 1605-6200 KHZ)

DEADLINE: 12th of MONTH

Who cares about inflation when the best things in life are free anyway? Falkland Is., Cook Is., incredible midday low-band opening on 9/15 -- that's the kind of stuff that really counts! Read all about it . . .

- 2200 CHINA. Foochow 2. 1403 M in CC; F/G till wiped 1405 by 2nd harmonic of KFAZ s/on. First time hrd here. (Hill 10/11)
- 2325 JAVA. RRI, Cianjur. 1400 nx relay from Bandung; is located SE of Bogor, NW of Bandung. (Tyson) (This a new one, Craig? Not in any of my lists. BH)
- 2340 CHINA. Foochow 1. 1300 three time-pips, M ID in CC. (Szot)
- 2340 NEW BRITAIN I. RWNB. 0949-1034 in Pidgin and (seeming) EE. (Barto)
- 2350 UNID (VENEZUELA?) 0936-41 SS, some mentions of Venezuela. YVPH? (Barto 9/19) (Inactive per WRTH; not listed in DSWCI Tropical Band Survey. BH)
- 2360 GUATEMALA. R. Maya de Barillas. Seeming abrupt \*1039, hrd to 1140 w/ SS, varied mx, T/C's, ID's. (Barto, Zilmer, Hauser, Shockley)
- 2385 FALKLAND IS. Per Falklands SWL, FIBS active this freq and 536 kHz to 0200\*; no mention of 3942 or any other 75M channel. (Hauser)
- 2410 PAPUA NEW GUINEA. R. Goroka. 1034-40 seeming nx in Pidgin. (Barto)
- 2428 NEW IRELAND I. RNI. 1145-1200 Pidgin, local chorals; P. (Barto)
- 2430 CHINA. PLA Fukien Front. 1250 M&W in CC drama, wk, // 2600 (G), 2800 (F); 2430 up to G by 1410. Seldom hrd this freq. (Hill 10/11)
- 2435N SUMATRA. RRI, Palembang. QSY from 2427. 1355 Indo // 4855. (Tyson)
- 2450 PAPUA NEW GUINEA. R. W. Highlands. 1030-40 M in Pidgin; GW QRM, F. (Barto)
- 2468 PAPUA NEW GUINEA. R. N. District. 1028-45 Islands chants, chorals; G. (Barto)
- 2475 CHINA. Hangchow. 1115-27 M&W in CC, wk. (Tuchscherer) 1210 M&W in CC, Oriental mx. (Szot)
- 2475 JAVA. R. Angkatan Bersenjata, Jakarta. Still ID's as Udara despite reports it is ex-Udara. Noted 1601 w/ full stn ID. (Tyson)
- 3140 UNID (S. KOREA?) Daily since 10/8 from just before 1300 to 1430\*, gospel mx (vocal, organ, instr), W in lang; about 30 sec before hour and half-hour, chimes and ID by letters -- either C/S or slogan abbrev, given by M. Not an Indo, am quite sure; wonder if 2X of HLDA, 250KW relig stn on 1570 kHz? (Hill)
- 3163V UNID. 0340 Mideast pops, no anct till 0434 Greek(?) by W; 0435\*. Reported from before 2300 on freqs varying to 3215. Likely ship stn. (Hauser)
- 3210 MOZAMBIQUE. RCM, L.M. \*0400 PP, W ID, gongs, T/O 0410; F. (Mayer)
- 3215 UNID. Still hrd 0400-30 orch mx, no ancts, then rock; G. (Mayer) (See 3163V. BH)
- 3220 PAPUA NEW GUINEA. R. Morobe. 1049 instr/choral mx, 1058-1100 Pidgin; F. (Mayer)
- 3223 TAHITI. This chnl listed active per Trop Band Survey but does not appear in new sked from ORTF, Papeete. (SCEX)
- 3225 VENEZUELA. R. Occidente. 1034 SS, mx; P/F. (Zilmer)
- 3235 INDIA. AIR, Gauhati. 1515 EE; G. (Willis)
- 3245 VENEZUELA. R. Libertador. 0054-0345 SS by M&W, light mx. (Wootten, Earhart, Lineback, Zilmer)
- 3250 S. AFRICA. SABC. 0115-0300 E/L orch mx, EE/Afkns, many ID's; G. (Barnes, Perdue, Zilmer, Thompson)
- 3255 LIBERIA. ELBC. 2230 EE ID, 2235 Af mx; F. (Henderson 9/14)
- 3255 VENEZUELA. LV de El Tigre. 0109 L/A mx, SS, ID; 0300\* w/ anthem. (Wootten)
- 3260 ECUADOR. R. Carrizal. 0102-15 SS, ID. (Tuchscherer)
- 3260 NIGER. Niamey. 0530-40 chants, M in FF. (Straus)
- 3260 PAPUA NEW GUINEA. R. Madang. 1120-30 Pidgin, chorals; G. (Mayer)
- 3265 (T) MOZAMBIQUE. RCM, L.M. 2245 light mx, M in lang, gone by 2300; P. (Wallace)
- 3280 COLOMBIA. Em. Meridiano 70. Sometimes SS nx 1030, ID's, F/O around 1045. (Field)
- 3280 ECUADOR. LV del Napo. 0230 SS ID; exceptionally G. (Shockley)
- 3285 S. AFRICA. SABC. 0415-30 EE, cmtry on S. A.E., farm prices; F. (Thompson)
- 3285 VENEZUELA. R. Pto. Cabello. 0215-35 SS, L/A mx. (Tuchscherer)
- 3286 JAVA. RRI, Madiun. 1414 ID. (Tyson)
- 3290 GUYANA. GBS. "Action R." 0040-0340\* EE, BBC mx, ID's, boxing, all kinds of mx. (Schwartz, Agner, Wootten, Mayer, Wallace, Rippel, Cress)

- 3290 PAPUA NEW GUINEA. Arthur Cushen reports that R. Central District, Port Moresby, is a new stn hrd 0900 in EE/Pidgin, no net nx. Will be tough to pull thru GBS. (Hauser) (Same stn I was hearing on 9575 w/ 0530\* sev months ago? BH)
- 3295 VENEZUELA. R. Trujillo. SS, mentions of Venez., N/A 0251\*; F. (Wallace) 1015-35 SS, L/A mx; F. (Zilmer, Jones)
- 3300 GUATEMALA. R. Cultural. 0244-0415 SS & EE relig px. (McCoy, Weaver, Wootten, Thompson) 0745-0805 clas mx, no ancts; G. (Lineback)
- 3305 PAPUA NEW GUINEA. R. W. District. 0926-37 light mx; wk. (Barto)
- 3325 GUATEMALA. R. Maya de Barillas. 0050-0102 SS, mx, ID's. (Tuchscherer) 1055-1137 SS, relig mx, ID's. (Zilmer, Weaver)
- 3325 VENEZUELA. R. Monagas. 0250 songs, ID after each. (Rippel) 1012 SS ancts; unusual in Aust. this time of year. (Willis 9/22)
- 3330A (T) ECUADOR. UNID 0645-0725+ w/ Ecuadorian and other L/A mx, many SS mentions of Ecuador; pretty sure 3330, not 3325. CHU splash. (Perdue) (Er, well, the term "splash" implies slopover from adjacent freq. Try Ondas Quevedefias, 3325. BH)
- 3335 PAPUA NEW GUINEA. R. Wewak. 1137 EE nx. (Shockley)
- 3335 TAIWAN. BCC. 1340 M&W in CC, jammed; not // 3230. (Hill)
- 3345 HAITI. 4VEH, 0015-30 EE relig px, 0030 FF ID; P. FEB? (Schwartz) (No. BH) 3341 EE relig px, anct, 0200\* (Shockley) Kids' chorus, 0230 FF anct. (Schnabel) 3340A 0945-1015 SS, relig mx, ID; P. (Barnes) UNID 1000 SS, relig mx. (Tuchscherer)
- 3350 GABON. Franceville. \*0430 flutelike instr, into FF(?), native mx; P. (Dexter 9/8) (Appears in WRTH but not Trop Band Survey. BH)
- 3350 GHANA. GBC. 0610 EE nx, ID. (Shockley)
- 3360 GUATEMALA. LV de Nahualá. 0111-0410 SS, marimba mx, many ID's. (7 reporters) 1115 SS, local mx. (Zilmer)
- 3365 VENEZUELA. R. Puerto La Cruz. 2325-0400\* SS, L/A mx. (6 reporters)
- 3375 BRAZIL. R. Olinda Pernambuco. 0039 (Shockley) 0318 (Wootten) 0535 (Straus) 0805 (Lineback), PP, pops, ID's.
- 3380 ECUADOR. R. Iris. 0403-55 Andean mx, ID's. (Wootten, Schnabel, Straus)
- 3380 GUATEMALA. R. Chortis. 0222-29 SS, L/A mx, T/C, ID. (Weaver, Shockley)
- 3385 NEW BRITAIN I. R. Rabaul. 1211-34 nat mx, lang, ID's; big sig. (Weaver, Shockley)
- 3390 ECUADOR. R. Zaracay. 0331 (Wootten) 0620 (McCoy) \*1030 (Zilmer), SS, Andean mx
- 3395 BRAZIL. RC de Conquista. 2315 PP, 2330 ID; P/F; mix Ghana at 1st, then OK. (Mayer)
- 3395 GHANA. GBC. 9/25 only: 2230-2300 EE, nx, chorals // 4915; G. Back to 3366 next day and ever since. (Mayer)
- 3395 VENEZUELA. R. Universidad. 0115 (Schwartz) 0256 (Weaver) 0340 (Wootten) 1000 (Zilmer) 1035 (Field), SS, L/A and U.S. mx.
- 3396 RHODESIA/NIGERIA. (Some confusion as to which is which. BH) RBC 0400 EE, MOR mx, nx 0430; P/F. (G. Miller) NBC 0455-0515 EE, positive ID by W. (Schwartz) RBC 0525 drums, plucked instrs, chants; VG, starting to F/O. (Schnabel) (On that last one, both time and px content suggest Nigeria, not Rhodesia. BH)
- 3400 CHINA. PLA Fukien Front. 1015-30 CC, revolutionary mx; F. (Barnes) 1137 CC // 3200. (Shockley)
- 3430 (T) INDONESIA. 1057-1100 same type sigs as 3464 and 3485. Wouldn't have ckd these out if they hadn't appeared in latest Frendx! (Barto 9/19)
- 3560 N. KOREA. Pyongyang. 1242-1315 EE nx/cmtry, orch mx, 1300 ID; G. (Thompson)
- 3598 (T) INDONESIA. 1024-29 instr mx. (Barto) (UNID UNID 3598 in ARDXC survey too. BH)
- 3605 UNID (JAPAN). 1020-37 in lang; any ideas? (Sure -- NHK relay, 3607. BH)
- 3638B CHINA. PLA Fukien Front. New freq hrd since 10/1 // another new freq of 4331 as well as usual PLA chnls. Around 1145 in CC; irreg operation. (Hill) 3640 UNID at 1130-45 in CC by W. (Mayer)
- 3668 TIMOR. Dili. 1019-43 PP; F in CW QRM. (Barto) 1145-55 M in PP; P. (Mayer)
- 3885 CAPE VERDE IS. RCCV. 2345 W in PP, mx, ID, \*2400 "AP"; P, ham QRM. (Mayer) (Has any WCNA DX'er ever had a positive log of Cape Verde on the low bands? BH)
- 3893 JAVA. RPKD, Sidoarjo. Reported as Surakarta and Sukoharjo, it's Sidoarjo. Hrd 0915-1600, 2100-2315. Sorry about the confusion on QTH. (Tyson)
- 3905 KALIMANTAN, RRI, Palangka Raya. 1500 nx, 1515\* w/ ID. (Tyson)
- 3907 (T) INDONESIA. 1015-22 in lang; wk. (Barto) (Poss above or number of others. BH)
- 3910 JAPAN, FEN. 1108 rock, EE DJ. (Szot)
- 3915 UNID (MALAYSIA). In Oriental lang 1025-32; F. (Barto) (BBC Tebrau. BH)
- 3935 JAVA. RRI, Semarang. 1010-21 Indo, instr mx. (Barto)
- 3940 UNID (CHINA). 1013-29 W in CC; strong. Wuhan? (Barto) (Indubitably. BH)
- 3945 NEW HEBRIDES. Vila. 0905-07 M in FF, soft Islands instr mx, anthem, 0913\*; wk but no ham QRM. Finally, after 2 years of early rises! (Barto 9/19) (Nice going, Sam. I still don't have a decent log on them because out here they only come through in the middle of the night in the middle of the week! Impending return to Standard Time should help. BH)
- 3955 S. AFRICA. SABC. 0420-30 Afkns; E. (Lineback)
- 3960 IRAQ. Baghdad. 2207 AA vocals; F, heavy ham QRM. (Shaw via NU)
- 3960 SUMATRA. RRI, Padang. 1017+ Indo; F. (Barto)
- 3965 KALIMANTAN, RRI, Pontianak. Has QSY'd here from 4000. (Goonetilleke via NU)
- 3970 S. AFRICA. SABC. 0420-30 EE tik on agriculture; G but ham QRM. (Lineback)
- 3970.2 CAMEROON. R. Buea. 2130 EE, 2131 play; F. (Rippel)
- 3980 S. AFRICA. SABC. 0418-20 EE, mx; E. (Lineback)
- 3985 ECUADOR. Esc. Rad. Pop. 1015-54 SS, mx, VG audio; F/E. (Barto, Zilmer)

- 3990 LIBERIA. VOA. 0415 EE nx u/ hams; P. (Mayer)
- 3995 SOLOMON IS. SIIIGS. 1026-51 instr mx; wk. (Barto)
- 4000 SULAWESI. RRI, Kendari. Indo, mx, 1300 ID. (Sot)
- 4110 CHINA. Urumchi. 1120-30 W in CC or similar; F. (Mayer)
- 4331N CHINA. (See 3638½.)
- 4385 MEXICO. UnID (C/S like XEFF), Ciudad Madero. 0315-30 (operation ± 10 min of that) storm warnings; ID slurred. (Brookwell) (This a ute, harmonic or what? BH)
- 4424 BOLIVIA. R. Paititif (assumed). 0324-30\*; P/F. (Dexter 9/21)
- 4448½ UNID. Poss Af. 2250-2300\* FF, guitar ballads, flute mx similar to Niger at s/off; no N/A then; ute QRM. (Shaw)
- 4500 AUSTRALIA. Time stn VNG. 1215 EE, time-pips, ID; VP. (Barnes)
- 4500 CHINA. Urumchi. 1120-30 W in CC or similar, u/ VNG, not // 4110; F. (Mayer) 1210-20 W in lang thru VNG. (Tuchscherer)
- 4520 ASIATIC USSR. Palana, Kamchatka. 0748 operatic aria, segue into light pop vocals; 0759 anct in RR w/ mention of Magadan, 0800\*; F. (Hill)
- 4535 JAVA. R. Suara . . . Magelang. 1145 Indo songs, ancts; 1159 ID. QTH definite but complete ID still mystery. (Tyson) (I thought R. Sukoharjo was here? BH)
- 4635 TADZHIK SSR. Dushanbé. 2314-30 RR, march mx; P. (Mayer)
- 4660 CLANDESTINE. R. Pathet Lao. 1128 Lao ancts // 6200. (Willis)
- 4665 USSR (UNID). HS stn in RR 1134, U/L; wk. (Willis 9/21)
- 4675 CLANDESTINE. VoNUFK. 1125 in Khmer; G. (Willis)
- 4679 ECUADOR. R. Nac. Espejo. 0415 boxing championship (Brookwell), 0546 SS, mx; G. (McCoy) 0743\* abruptly during mx; G. (Alcock)
- 4710 UNID. L/A? 2015 SS, U.S. pops, Latin format; maybe one of Shaw's Bolivians. (Rip-pel) (Very early for propagation from S.A. to N.A. Also, now that Shaw has moved to California, those Bolivians will have to be somebody else's. BH)
- 4713N COSTA RICA. R. Capital. 0507-50 SS, mx; G but QRN. (Brookwell) (Temporary QSY from 4832? BH)
- 4719 SULAWESI. RRI, Ujung Pandang. 1245-1300 Indo, vocals; G. (Tuchscherer)
- 4720 UNID. L/A. 0525 SS by M, 0528:30 chimes, W: "Esta es La Voz . . ." 0529 instr mx, impossible after 0530. (Straus 9/22)
- 4725 BURMA. Rangoon. 1415\*; G. (Willis)
- 4727 MEXICO. UnID (XEA\_?) 0357-0403, 1530. Wx for entire country; bad het. (Brookwell)
- 4747 ECUADOR. R. El Mundo. 0350 fights // 4679, 4765; closing ID 0355; F. (Brookwell)
- 4755 COLOMBIA. Em. Nuevo Mundo. 0147 SS interviews, mx (Wooten). 0210 SS, ID. (Perdue) 0353 SS mx, nx; G. (McCoy)
- 4765 CONGO. RTVC, Brazzaville. 0430 FF, mx, many mentions of Braz; G. (Lineback)
- 4765 ECUADOR. CRE. 0310-0415 fights // 4679, 4747; ID as R. Cadena Nac. (Brookwell) 0340-0400\* SS, L/A mx, occasional ID's (Perdue) 1100 SS, "Ave Maria" mx. (Zilmer) (T) SUMATRA. 1240 Indo mx; P. (Lineback)
- 4767 COLOMBIA. R. Catatumbo. 0152 SS, ID; QRM from YVNW/4770. (Wooten)
- 4770 LIBERIA. ELMA. 0610-20 M&W in EE, relig mx, 0615 ID; F. (Earhart)
- 4770 VENEZUELA. R. Bolívar. 0153 cha-cha rhythms, ID's. (Wooten) 0430\* after N/A. (Alcock) \*1000 N/A, ancts, ID, L/A mx. (Perdue)
- 4775 AFGHANISTAN. Kabul. 1400 EE nx; G. (Willis)
- 4777 GABON. Libreville. 2215-2330 FF/vernac, Af mx; WRTH lists s/off at 2300. (Tuchscherer, Perdue, Earhart, Lineback, Zilmer)
- 4780 AFARS & ISSAS. Djibouti. 1552 AA, early F/I; G. (Willis 9/4) (T) 2120+ AA chants, M ancr; no het after 2130 so presumed s/off then. (Shaw 10/5)
- 4780V MALI. 4780.2 0608-24 chants in vernac; no def ID. (Earhart) 4780 0700 FF, Af mx, IS, ID, nx. (Shockley) 4783 2100+ AA, guitar mx. (Shaw) 4783 2250-2300 FF, local mx // 5995; F. (Mayer) 4780 UnID 2350 FF thru QRN/het/RTTY. (Wallace)
- 4782V DOMINICAN REP. Onda Musical. 4780 0040-0101 mx (M. Smith). 4780 1040-1105 E/L mx and Italian standards, ID (Perdue). 0308 SS, L/A mx, ID (Shockley).
- 4785A (T) BOLIVIA. R. Nac. de Bolivia? 0240-0300 SS, lively L/A mx; thot hrd RNB ID in QRN/het QRM. (Perdue 9/22)
- 4785 COLOMBIA. Ecos de Combeima. 0130 SS; F (Jones). 0350-0400 mx, ID's; G. (Mayer)
- 4787 PERU. R. Atlántida. 0220-0625 SS, mx, ads, ID's. (7 reporters)
- 4788 TURKS I. VS18. 2150-2206\* U.S. instr pops, M in EE, ID 2200, abrupt s/off 2206. (Straus) 2210 instr pop/rock, EE ID; S9+10 dB. (Driscoll 10/5) (Another one that WCNA can only dream about. BH)
- 4795 ECUADOR. LV de los Caras. 0400-0404\* SS ID, marches, F (Mayer).
- 4799½ ECUADOR. R. Popular Independiente. 0730 EST T/C "exactamente en Popular de Cuenca," Andean mx (Hauser). 0900 ID, Andean mx; F/F w/ ute on USB. (Magne)
- 4800 CHINA. Peking. 1730 CC mx, booming sig. (Henderson 9/15)
- 4800 (T) INDIA. AIR Hyderabad. 1230 Hindi-type mx; QRM but G. (Lineback 9/27) (Any chance you were hearing Peking, Jerry? They clobber AIR, at least out here. BH)
- 4800 VENEZUELA. R. Lara. 0005-0320 SS, mx, T/C's, ID's (Zilmer, Barnes, Courtney, Thompson). 1023-38 same (Weaver, Perdue).
- 4802 DOMINICAN REP. UnID. On 9/26 only, 0005 "Radio ..." and poss one ID for "Radio América(s)," definitely "en Santiago, República Dominicana"; VG. Next night ute returned; nil since, even when chnl clear. QRM de Ecuador/4800. (Dexter)
- 4810 S. AFRICA. SABC. Springbok R. 0330-0450 EE/Afkn, ads, mx (8 reporters).
- 4815 CHINA. Peking. 1200 IS, lang; P (Mayer).
- 4815 PERU. R. Samarén. 0430-0505\* SS, L/A mx, bulletins, N/A\* (Tuchscherer)

- 4815 CHINA. Peking. 1200 in lang, IS; P. (Mayer)
- 4815 UPPER VOLTA. Ouagadougou. 0558 IS, 0558:30 FF ID by W; N/A, 0600 M in dialect. (Straus) 0600 into chants; VG. (Alcock) 0637-55 vernac/mx. (M. Smith) 2245-2300\* FF, local mx; ID in FF/vernac, N/A at s/off. (Mayer)
- 4820 GAMBIA. Banjul. 0635-58 Koran chants, W ID, BBC nx 0700 then local nx (Cress, Weaver, Alcock). 2215-30 Af instr mx, EE; P. (Schwartz) (Richard, with several "distorted" stns in your report, better get your rcvr checked out. BH)
- 4820 HONDURAS. HRVC. 0300-0930+ disaster/assistance nx and msgs for "Fifi" victims and their families; emergency-vehicle sirens, people crying in background; 0900 excited anct of U.S. aid. Real you-are-there feeling about this tragedy. (Perdue)
- 4820 INDIA. AIR, Calcutta. 1730 EE nx, W in native, ID before nx by M. (Henderson 9/15)
- 4820 VENEZUELA. R. Tricolor. 1034 SS, T/C, ID, L/A mx. (Shockley)
- 4825 COLOMBIA. R. Nariño. 1038 SS, L/A mx, ID. (Shockley) Straus).
- 4825 DOMINICAN REP. LV Fuerzas Armadas. 0345-0402\* SS, L/A mx, N/A (Tuchscherer,
- 4825 ECUADOR. R. Luz y Vida. 0528 SS, Ecuadorean mx; G. (McCoy)
- 4825 TANZANIA. RT. 1545 in Swahili; G under Moscow. (Willis)
- 4825 UKRAINIAN SSR. Kiev. 2059 pips, "Govorit Kiev!"; P/F (Henderson 9/15).
- 4825 USSR (UNID). 0327 clas mx, sudden s/off (Schnabel). (Likely Kiev. BH)
- 4825 USSR (UNID). 1743 RR, local Turkmen-type mx; Ashkhabad? (Henderson 9/15).
- 4831 CHINA. Shenyang. On 10/4 only, Bangkok missing from chnl at 1345 ck; Shenyang in clear w/ harangue in CC by W. Usually unreadable mess here w/ both stns. (Hill)
- 4832 COSTA RICA. R. Capital. 0115-0603\* SS, mx, ID's (6 reporters). 0804 nx, T/C's; 0807 "Happy Birthday" (Hanner).
- 4836 BRAZIL. (T) R. Triângulo Mineiro. 0129 futbol, occas gong, studio ancr (Dexter).
- 4839 UNID. L/A. 0320 strange L/A mx, 0330 SS ID sounded like "R. Alcue"; also ancd freq as 4840; F. (Wallace 9/23)
- 4840 CHINA. PLA Fukien Front. 1725 CC mx, tlk by W; P/F. (Henderson 9/15)
- 4840 INDIA. AIR, Bombay. 1730 EE ID, langs; nx/tlk QRK, also mx; P, mixing w/ PLA. (Henderson 9/15)
- 4840 VENEZUELA. R. Valera. 0307-20 SS, L/A tunes, many ID's (Mayer). \*1030 N/A, ancts, ID; G. (Perdue)
- 4844 (T) CONGO. Pointe Noire. 2146 lang, Af songs by natives; P. (A. Miller)
- 4845 BOTSWANA. Gaborone. \*0400 lang, IS, N/A, ID; QRM (Shockley).
- 4845 BRAZIL. RC de Teresina. 0700 PP, L/A mx, ID (Shockley).
- 4845 COLOMBIA. R. Bucaramanga. 0357-0418 SS, mx, ads, ID (Shockley, McCoy). 0330-0400 EE show w/ EE and SS ID's, songs; F (Mayer 9/24)
- 4845 MALUKU. RRI, Ambon. Local nx in Indo till abrupt s/off or break in xmt at 0923 (Hanner 9/7).
- 4845 MALUKU/MALAYSIA. RRI 1150-1230 Indo by M, mx; VG (Tuchscherer). Kuala Lumpur 1200-10 lang, mx; F (Mayer). (Both stns here; best to get positive ID, fellas. BH)
- 4850 CHINA (?) Peking. 0300 SS px for L/A w/ L/A mx, clear Peking ID (Brookwell 9/27). (Highly unlikely, since it's noon in Peking at that time! Wonder if some L/A stn carrying Peking px, perhaps? BH)
- 4850 DOMINICAN REP. R. Clarín. 0030-1053 SS and EE ID's (11 reporters). 0030-0100 "Clarín Internacional," read letter from NASWA member Courtney (Lovett 10/1).
- 4855 BRAZIL. Rdif Taubaté. 0835 PP, L/A mx, ID, T/C (Shockley).
- 4855 SUMATRA. RRI, Palembang. 1145-55 vocal/instr mx, Indo tlk; P (Mayer).
- 4865 BRAZIL. RC do Pará. 0300 PP ID's (Peraaho, Zilmer).
- 4865 CHINA. Lanchow. 1203-13 W in CC (Weaver).
- 4865 COLOMBIA. V. del Cinaruco. 0525 SS political cmtry, ads; P (Brookwell).
- 4870 COLOMBIA. Ecos del Combeima. 0405 SS mx; F (McCoy). (This one U/L in Tropical Bands Survey. You sure of ID? BH)
- 4870 DAHOMEY. Cotonou. 2115 FF nx, hi-life mx, ute QRM de 4872; P (Rippel).
- 4871 W. IRIAN. RRI, Sorong. 1150 Indo, choral mx; P (A. Miller).
- 4875 BOLIVIA. Cruz del Sur. 0930-40 SS, piano mx, frequent ancts/ID's (Perdue). 1015-30 SS/local lang; G (Lineback).
- 4875 ECUADOR. R. Rio Amazonas. 0313 SS, L/A mx, ancts, ID (Shockley). (Listed 4870. BH)
- 4875 S. AFRICA. SABC. 0440 Afkns; not always heard but 10/4 was good night (Alcock).
- 4880 VENEZUELA. R. Universo. 0125-30 SS ID's, mx; severe het (Courtney).
- 4882 DOMINICAN REP. R. Comercial. 0508-0745 SS, L/A mx, ads (5 reporters).
- 4885 COLOMBIA. Ondas del Meta. 0400-0458\* SS ID's, mx (5 reporters, of whom one ID'd the stn "Ondas del Metas," another "Ondas de Meta" and a third "Ondas de la Meta." There isn't much excuse for such sloppy reporting. BH)
- 4890 BANGLADESH. Dacca. QSY here from 6015 for 1200-1545 Home Svc relay. 1507 S/C pop vocals, occas soft/muffled ancts; seemed EE nx 1530; 1545\*; wk mod (Hill).
- 4890 PAPUA NEW GUINEA. Port Moresby. 0751 (McCoy), 1220-31 (Courtney), 1300-25 (Thompson) EE, pop mx, ID's, T/C's.
- 4890 SENEGAL. Dakar. 2111 FF, hi-life mx (Rippel). 2213-18 chantlike vocals, ancts by MSH in FF, time pips 2215 (Straus).
- 4890 VENEZUELA. Rdif Venez. 0250-0329 SS, orch mx, ID's; G (Thompson).
- 4895 BURUNDI(?) R. CORDAC. 0430 drums, chants; G (Schnabel). (Stn this freq has been established as Beira, I believe; CORDAC still on 4900. BH)
- 4895 TURKMEN SSR. Ashkhabad. 1744 RR and local mx; F, het (Henderson 9/15).
- 4900 VENEZUELA. R. Juventud. 0245 SS ID's, U.S. and L/A pops; G (Courtney).
- 4904½ CHAD. Ndjamana. \*0425-40 IS, FF (M. Smith). 0450 FF, string mx past 0500 (Wallace). 2302 FF, Af mx, old pops, s/off w/ N/A (Shockley).

- 4905 BRAZIL. R. Relogio Federal. 2317 PP T/C (Shockley).  
 4907 CAMBODIA (?) 1242-1345 Oriental play/dialogue, gong, squeaky violin, wailing, sing-song tlks w/ banjo; CW QRM. Hope Phnom Penh (Brookwell). (Yep. BH)  
 4910 VENEZUELA. R. Carora. 0155\* after ID, N/A (Shockley). 1020 ads, ID's (Perdue).  
 4912 UNID (GUINEA?) 0508 EE nx, occas words only due het QRM; earlier heard in FF; VP (Brookwell)  
 4915 BRAZIL. Rdif de Macapá. 0830 PP, ID, mx (Shockley).  
 4915 CHINA. Peihai? (QTH still not certain; may be Nanning. BH) 1155 CC by W. (L'back)  
 4915 GHANA. Accra. 0600-10 ID, EE, mx, propaganda (Schwartz). 2152-2302\* vernac, relig px; F/E (Earhart, O'Shea, Weaver, Shockley).  
 4920 AUSTRALIA. ABC. 0745 EE, nx, stocks; G (Lineback).  
 4920 HONDURAS. R. Progreso. 1206 on 9/26: "Attention Post No. 1 in San Pedro Sula; Post No. 5 ready to enter network in emergency service -- calling all nations for help" (Brookwell). 0330 SS ID's, U.S./L/A pops (Courtney 9/16).  
 4920 INDIA. AIR, Bombay. 1730 EE nx // other Indians; s/off after talk in local lang by W; P/F w/ clear chnl (Henderson 9/15).  
 4920 UKRAINIAN SSR. Kiev. Around 1630, RR talk, mx; faded around 1700 (Henderson 9/15).  
 4926 EQUATORIAL GUINEA. Bata. 2100-2156\* Af mx, SS ID; G (Henderson). 2130 vernac, Af mx, poss SS; "not hrd just any old day" (Shaw 10/5).  
 4932 JAVA. RRI, Surakarta. 1200 net nx in Indo // 4855 (Mayer). 1230-45 Indo, vocals; P (Lineback).  
 4932 NIGERIA. NBC, Benin City. 2304 EE nx, ID, s/off w/ N/A (Shockley).  
 4935 UNID (L/A). Still SS outlet here w/ hets, splash, bad voice mod; T/C's, no ID hrd. Apparent s/off 0300 on 9/28 though was dropping out by 0240 (Dexter).  
 4940 IVORY COAST. Abidjan. 2115-0000\* FF/vernac, Af mx; G (5 reporters).  
 4940 VENEZUELA. R. Yaracuy. 0120 U.S. pops, reverb audio, ID's (Lovett). 1014 ads, ID's and L/A mx (Perdue).  
 4945 BRAZIL. UNID. Not sure if Bragança or Capiaxaba due "colossal" Colossal QRM local eyes; doesn't show very often (Dexter).  
 4945 S. AFRICA. SABC. 0405 smothering Colosal; gone 0500 (Alcock). 0400-30 EE, tlks on agriculture; Colosal QRM (Peraaho, Mayer, Tuchscherer)  
 4945 COLOMBIA. R. Colosal. 0230-0555 nx, mx, ID's (Peraaho, Weaver, McCarthy).  
 4950 VENEZUELA. R. Coro. \*0357; G (McCoy). 0145 SS, mx, ID's (Peraaho).  
 4955 COLOMBIA. R. Nacional. 0000-0350 EE lesson, opera, SS, pops (5 reporters). 1020 EE/SS lang lesson; G (Lineback).  
 4960 CHINA. QTH? (Peking. BH) 1155 CC, W singing; ute QRM (Lineback).  
 4965 COLOMBIA. R. Santa Fé. 0354-0525 SS ID's, TC's, L/A mx; G (5 reporters) BH  
 4965 S. AFRICA. SABC. 0355 EE; sneaks thru L/A on fade (Brookwell). (Sure this freq?)  
 4970 VENEZUELA. R. Rumbos. 0043 (Lovett), 0357 (Brookwell), 0413 (McCarthy), SS, ID's.  
 4975 PERU. R. del Pacifico. 0420-30 organ mx, ID; F (Mayer).  
 4980 GHANA. Accra. 0605 EE (M. Smith). 2145-55 EE relig px; noisy (Earhart).  
 4980 VENEZUELA. Ecos del Torbes. 0120-30 EE ID 0130 (Lineback). 0208 EE ID by M w/ U.S. accent; G. (Jones)  
 4982; UNID (L/A). 0247 SS (Shockley).  
 4985 ANGOLA. R. Ecclesia. 2200 PP nx, ID, light mx; F (Henderson 9/14).  
 4990 NIGERIA. Lagos. 0500 ID, nx; best sig ever (Weaver). 2202-05 EE, mx; G (O'Shea). 2301-05\* after anthem; over Venezuela (Lineback)  
 4990 VENEZUELA. R. Barquisimeto. 0038-0358 SS, mx, ID's, T/C's (Lovett, McCarthy, Peraaho). \*1000 ancts, ID's (Perdue). 0400\* after N/A (Alcock). (Shockley)  
 4995 BRAZIL. R. Brasil Central. 0900 PP ancts; not so common here! (Willis) ID's 0715  
 4995 PERU. R. Andina. 0410-20 Andean mx, ID (Mayer). 0554 L/A mx, ID (Shockley). 1100 Peruvian mx, SS, ID (Perdue).  
 5010 COLOMBIA. Em. Cult. Surcolombiana. 0035-1103 pops, ID's; G (7 reporters).  
 5010 CAMEROON. R. Garoua. 0515 FF/AA, chants, lcl mx; no Colombia on 9/20 (Alcock).  
 5010 PERU. (T) R. Eco. 0502\* w/ mention of Loreto, long N/A (Hauser)  
 5010 SINGAPORE. RS. 1150-1200 EE, W tkl on medicine // 5052; ID 1200; best ever (Mayer)  
 5014; BRAZIL. Rdif de Poços de Caldas. 2317 PP ID, mx (Shockley).  
 5015 ASIATIC USSR. Vladivostok. 1630-1915 RR mx, nx 1715; E (Henderson 9/15). 1400 clas mx; G (G. Miller).  
 5015 WINDWARD IS. R. Grenada. 2315 EE, soul mx (A. Miller). 2325 EE from BBC (Shockley)  
 5020 CHINA. Nanchang. 1230 W ID in CC, CC mx (Szot).  
 5020 COLOMBIA. Transm. Caldas. 0340-0450 many ads; stingy w/ ID's till 0450 (Brookwell)  
 5020 ECUADOR. R. Centinela. 0428 mx, ads; VG (McCoy).  
 5020 NIGER. Niamey. 2330 FF/AA mx, FF ancts (Henderson). \*0530-0606 FF/vernac, flute mx, FF nx 0600 (Alcock, Shockley).  
 5020 SRI LANKA. Colombo. 1320 EE ancts mixing w/ China (Willis).  
 5025 PERU. R. Quillabamba. 1005 lang, Andean mx, ID; G (Perdue).  
 5026 UGANDA. Kampala. (T) 2050 low mod, seeming FF, mx (Shaw). 2100 EE ID (Henderson).  
 5030 ANGOLA. RC de Cabinda. 2245-2303\* lcl/U.S. mx, PP, "AP" at s/off; F (Mayer).  
 5030 DOMINICAN REP. LV de Papagayo. 0226 (Shockley), 0529 (Jones), 0727 (Shockley) SS, L/A mx, ID's.  
 5030 VENEZUELA. R. Continente. 0355 SS ID; G (McCoy).  
 5032 SINGAPORE (SARAWAK). 1330-1405 EE nx, orch mx, ID 1340; G (Thompson). (Is Kuching, not Singapore. Freq should be 5030 exactly. BH)  
 5035 COLOMBIA. Brisas del Citarf. 0227 T/C's, ID (Shockley).

- 5037 COLOMBIA. Ecos de Caqueta. UnID 0200 ID, couldn't get (Field). Believed Ecos del Atrato from 0253 (Dexter). 0305-0325 L/A mx, ID's (Tuchscherer). 5035 at 1110-1120 L/A mx, ID's (Perdue).
- 5039 SUDAN. Omdurman. 2156-2203\* AA px, no anthem at s/off; F (Anthony via BS).
- 5040 BURMA. Rangoon. EE nx 1445-1500, then lcl mx px (Sztot).
- 5040 GEORGIAN SSR. Tbilisi. 1640 tlk, lcl mx, sounded RR (Henderson 9/15).
- 5041 PERU. R. Libertad de Jumfn. 0745-0945+ Peruvian mx, ID's (Perdue).
- 5045 COOK IS. Rarotonga. "Cook Is. BC Corp." w/ New Zealand mx relay 0820; ID 0825 and T/C for "6 minutes to 10"; native Islands mx till 0832 when ID and EE tlk past 0846. Doesn't appear to ID as R. Cook Is., rather as CIBC above. This hrd on 9/28 (Hanner). (T) 0700-20 men tlk, maybe EE; het, QRN (Earhart). (Think that's wishful thinking, OM. They aren't even coming thru on WCNA -- and I checked 10/5, the same night you specified for the foregoing. BH)
- 5047 TOGO. Lome. 0536-0647 FF, nx, drums, native mx (McCoy, Cress, Smith). 2132-2302\* same type px, FF mx 2258; fantastic sig (5 reporters).
- 5050 VENEZUELA. R. Mundial. 0245 pops, ID's, T/C's (Wootten). 2310 ID, ads (A. Miller).
- 5052 SINGAPORE. RS. 5053 UnID 1220-35 lang, opera mx, "Meditation" from Thais. (Tuch.).
- 5055 BRAZIL. R. Cult. de Cuiabá. 0210 occas PP ID's (Shockley). BH
- 5055 BRAZIL. R. Vitoria. 2252-2305 PP by M&W, ID's; P (Mayer). (Both Brazilians here?)
- 5055 PERU. R. Imperial? 0219 Andean mx, ancr in Quechua; much tlk of Peru; S9 sig but QRN. R. Imperial listed WRTH (Schnabel). (But not Trop Band Survey, BH)
- 5060 ANGOLA. RC do Huambo. 2245-2300\* PP, U.S./lcl mx, ID, "AP" at s/off (Mayer).
- 5065V ECUADOR. R. Nac. Progreso. 0105-0215 SS, Andean mx, infreq ID's, still drifting (Tuchscherer). 5060 at 0448 SS, Ecuadorean mx; F (McCoy).
- 5075 COLOMBIA. R. Sutatenza. 0130-57 German tlks, mx on lcl Sunday (Tuchscherer). 0150 ID's, tlks, pops (Courtney). 1045-1100 SS, mx, ID; G (Barnes).
- 5192 ANGOLA. RC do Moxico. 2200 PP ID, nam mx; G (Henderson via TDXN).
- 5240 CHINA. PLA Fukien Front. 1328 drama in CC (Sztot).
- 5344x CLANDESTINE. V. of Free Yemeri South. First found on 8404 at 1417, chants, exhortations in AA; wk/fluttery. Then tuned here 1423, // and far better via LP (8404 prob SP). 1430\* after anthem, tho sked says 1500\*. (Hill 10/6)
- 5855 SUMATRA. RRI, Pekanbaru. 1120 w/ "berita 2 keluarga"; strong (Hanner). (If I had berita 2 keluarga I'd see a doctor! "Berita" is nx; what's "keluarga"? BH)
- 5875 HONDURAS. LV de Hond. 0211 anct "Cadena Nacional de Emergencia"; VG (McCoy). 0405 nx, msgs on relief/rescue operations after Fifi (Hauser 9/25).
- 5900 CHINA. PLA Fukien Front. 1045-1100 CC by M&W; P/F (Barnes). 1108 W in CC (Wootten)
- 5904 USSR. R. Moscow 1530 RR nx, mx (Henderson 9/15).
- 5925 CANADA. This freq and // 9480 and 11990 are not RCI BC's. They are P-T-P xmsns to Canadian armed forces relay stn in Laar, W. Germany, acc to RCI SW Club pgm of 9/29 (J. Davis).
- 5930 CZECHOSLOVAKIA. Prague. \*0100-0145 EE NA Svc, said // 7345, 9540, 9630, 11990; same \*0300, 9740 dropped (Brunner, O'Shea, Barnes). 1643 EE mx, tlk by W (Henderson 9/15).
- 5935 LATVIAN SSR. Riga. 1623 RR mx; G (Henderson 9/15).
- 5950 UNID (CHINA). 0955 M&W in CC-type; pips, ID 1000 (Brookwell). (Is Harbin. BH)
- 5950 COLOMBIA. R. Super de Medellin. 0255-0330 SS, ID's (Shockley, Zilmer). 0410 basketball, ID "en cadena"; nx 0445, hurricane bulletins; 0530 ID R. Super (Brookwell) 0738-0825 ID's, T/C's, mentions of Medellin (Jones, Willis, Hanner).
- 5950 USSR. R. Moscow 1625 RR by M (Henderson 9/15).
- 5954 COSTA RICA. R. Casino. 0600-0605\* mx, EE ID as TIQ; P/F (Courtney)
- 5955 GUATEMALA. R. Cultural. 0834\* pops, W ancr in SS (Jones).
- 5960 UNID. 1020 seeming lang lesson by M&W w/ quick piano interspersed; 1030 ID and IS (Brookwell)
- 5965 BRAZIL. R. Guaiaba. 0910 PP ancts; usually R. Nac. Huanuni dominates (Willis). 2308 PP, pops, ID; F (A. Miller).
- 5967 SAUDI ARABIA. Riyadh here repl 6000 but prob just drift. 1535 AA ancts (Willis).
- 5970 PERU. R. El Sol. 1040-56 Andean mx, ID; F (Patterson, Zilmer).
- 5975 BRAZIL. R. Guarujá. 0930 PP ancts, mx; G (Willis).
- 5980 EL SALVADOR. R. Nac. 0138 SS, T/C's, ID (Shockley)
- 5980 SABAH. RMS, Kota Kinabalu. 1100 EE nx, EE thru till 1500, in clear (Willis).
- 5980 SIERRA LEONE. Freetown. 0802 EE T/C; hrd 9/9 only (Willis).
- 5980 S. AFRICA. R. RSA. 0300-0500 EE, ID, old U.S. pops, IS; VG (G. Miller, Lineback).
- 0500 bird-call IS, lang: JJ w/ FF accent (Brookwell). (Oh come on, now. BH)
- 5985 ARGENTINA. R. Splendid. 0910 SS ancts; later under RRI, Menado (Willis).
- 5987 SULAWESI. RRI, Menado. 1339 Indo, ID (Shockley).
- 5985A NEW BRITAIN I. Rabaul. 0700 EE, ID, lang; VP (Gendron 10/1).
- 5990 BRAZIL. R. Min. da Educação. 2340 PP, mx (Zilmer).
- 5990 ROMANIA. Bucharest. 0220-0230 EE, ham DX nx, mx; F/G (Brunner).
- 5995 AUSTRALIA. RA. 1030-1145 to Mid-Pac, EE, clas mx, Mailbag; F (Barnes). \*1100 EE to Asia/Pacific/PNG, nx, cmtry (6 reporters).
- 5995 MALI. Bamako. 0645-55 // 4780, mx; VP (Earhart). 2345-0000\* FF/vernac (Zilmer).
- 5995 VATICAN. RV. 0105-0115 EE relig pgm (Brunner) (Charles, you're sticking in the asterisk where it's impossible to tell whether you mean s/on or s/off. Please put it before the time for s/on and after the time for s/off. Thanks. BH)
- 6000N U.S.A. KGEI. 0200 (J. Davis), 0340 (Brookwell), 0613 (Earhart), SS px w/ ID's.

- 6005 AUSTRALIA. RA. 1103 EE N by W; QRM de 6006 (Wootten). 1200 EE, nx, mx to Pac. Is. // 5995 (Zilmer).
- 6005 CANADA. CFCX. 0200 EE nx, mx, cmcls, ID for CFCX (Peraaho). 2100-15 EE, ads, nx, mx; P (Barnes).
- 6005 W. GERMANY. RIAS, Berlin, 1530-1645 orch mx; G; first time ever here (Henderson 9/15). (Assume you got some kind of ID, at least GG talk, Dan? BH)
- 6010 ITALY. RAI. 0100-15 EE, ID, nx for NA; G (Schwartz).
- 6010 JAPAN. VOA, Okinawa. 1230 EE "American Musical Theater"; P/F (Jones).
- 6010 U.S.A. BBC relay via Dixon. 0215 SS nx from BBC; VG (G. Miller). 0414\* after SS; no freqs or QTH given at s/off (Hauser).
- 6010 VENEZUELA. R. Los Andes. 1000 mx, ads, refs to Venez. (Field). 1015 SS ancts; QRM de Thai TV (Willis). \*1032 N/A, ID's, freqs ("YVON 1040 kHz"); QRM Reloj (Jones).
- 6012 (T) ANTARCTICA. AFAN. Presumably source of definite carrier detectable on BFO at 0812; very wk; seemed to have polar flutter. Not likely spur from VOA/6015 as they s/off 0800. Lost this sig at 0845 (Hauser 9/24). OC again as early as 0630, severe VOA splash; 0803 decent carrier w/ flutter but could detect very little audio; still in at 0900 (Hauser 10/7).
- 6015 BRAZIL. RC de Pernambuco. 0030 PP, sports, ads; not as good as // 11865 (Shaw).
- 6015 COLOMBIA. R. Mira. 0340-0400 SS, L/A mx (Tuchscherer). 1015-1100 lcl mx, ads, ID's, pop mx (Zilmer, Wootten, Perdue).
- 6018 U.S.A./ANTARCTICA. (Take your pick. BH) Is McMurdo. AFRTS relay w/ lcl ID at 0730 on 10/7 (Hanner). Carrier w/ wk AFRTS audio // 6030, 6095 at 0815. Phase very close to 6030; suspect spur from Bethany/6030, same as is being hrd on 6042 (in other words, +12 and -12 kHz). Presumed Antarctica. 0915-1010 AFRTS EE, sports; unstable carrier varied 300 Hz in one hour and was wobbly; no lcl ID's; lost 1010 (Magne). ID'd as AFRTS, Bethany, doing cuts for later use. Hrd 10/5 at 1055-1100. Bethany ID given. (Talbot) (Confusion, anyone? BH) (Item before # from Hauser)
- 6020 PHILIPPINES. VOA. 1108 lang, 1200 "Yankee Doodle" and into JJ (Brookwell). (No JJ sked from VOA at any time. BH)
- 6020 VENEZUELA. R. Anzoategui. 1055 SS, L/A mx (Zilmer).
- 6025 NIGERIA. NBC, Enugu. \*0428-0501 drum IS, EE ID, relig px, nx (Smith). 2300-2305\* (A. Miller). EE nx summary (Zilmer).
- 6025 PORTUGAL. Lisbon. 0200 EE ID cmtry, 9/20. Very much here, Dr. Wood notwithstanding
- 6030 COLOMBIA. R. Nac. 2345 SS tk (Zilmer).
- 6030 W. GERMANY. SDR. 0635 GG ancts u/ AFRTS; only F (Willis).
- 6035 ASIATIC USSR. Vladivostok? Mayak 1755 // 6070, 6080, 6190; P (Hauser).
- 6035 MONACO. RMC. 0037 FF nx mixing VOA/Liberia, via LP (Hanner 10/2).
- 6035 SWEDEN. RS. 0078 EE newspaper comments; F (McCoy).
- 6042 U.S.A. AFRTS, Bethany. Spur from 6030 matching 6018 (+12 -12) at 0220 (Hauser).
- 6045 JAVA. RRI, Jakarta. 1330 Indo, ID, nx (Shockley).
- 6045 PERU. R. Santa Rosa. 0330 M ID; P u/ HCJB splatter (Mayer). 1207 in SS; u/ RRI but QRK (Willis).
- 6050 MOZAMBIQUE. RCM, L.M. 0500 EE, song by Dionne Warwick, clear ID (Brookwell). 1600-10 EE DJ px; very wk, then mix BBC from 1615 (Willis).
- 6055 ARGENTINA. RN, B.A. 0800 SS tlks, some mx (G. Miller).
- 6055N ECUADOR (JAPAN). HCJB 1400 Oriental lang, pips on the hour; "their pip machine has a cold -- last dash sounds funny" (Brookwell). (So does this item -- the stn you describe is not HCJB but NSB, Tokyo! BH)
- 6055 BRAZIL. R. Panamericana. 2355 PP tk; P (Zilmer).
- 6055 JAPAN. NSB, Tokyo. Now 1600\* instead of 1540\*; usually G (B. Davis).
- 6055 RWANDA. RR, Kigali. 1500 FF ancts u/ NSB; G but not hrd since (Willis 10/9). (T) 2000 M in FF, pops and E/L mx (Rippel 9/22).
- 6060 CUBA. RHC. ID 0020 (Cole). ID 1100 (Neitzel).
- 6065 BRAZIL. R. Nac. de Brasilia. 2230 PP tk (Zilmer).
- 6065 COLOMBIA. R. Super, Bogota. 0006-0615 SS, L/A mx, ID's (6 reporters).
- 6065 SPAIN. RNE. 0130-45 EE guitar mx; F (Barnes).
- 6065 SWEDEN. RS. 2245 SS tk u/ Brazil (Zilmer).
- 6070 ASIATIC USSR. Mayak. Strongest of the four 49M freqs at 1755; QTH unk but doubt Alma-Ata as in WRTH (Hauser). (Right, Glenn; it's probably Khabarovsk. BH)
- 6070 CANADA. CFCX. 0600 (J. Davis), 1220-40 (Courtney), 1500-10 (Brunner), 2100-15 (Barnes), EE, ads, nx, mx.
- 6070 VENEZUELA. R. San Cristóbal. 0028 (Agner), 1000-1105 (Barnes, Zilmer, Patterson), SS, mx, ads.
- 6080 ASIATIC USSR. 1755 Mayak // 6035, 6070, 6190; prob Khabarovsk (Hauser).
- 6082 PERU. R. Nac., Lima. 0550 SS nx, 0600\* "or when they get to it"; E (McCoy).
- 6085 INDIA. AIR, Madras. 1320 variety px in Hindi (?) (Willis).
- 6090 LUXEMBOURG. RLI. 0130-45 EE, pops (Barnes). 2330-40 GG, ID; P (Schwartz).
- 6100N ASIATIC USSR. RM. JJ px 0805; new freq hrd 9/29 (Hanner).
- 6105 MEXICO. R. Su Pantera. 0115-23 rock, SS (Peraaho, Shockley).
- 6110 PHILIPPINES. VOA. 1220 EE; some QSB (was looking for R. Charitas) (Brookwell).
- 6115 MEXICO. R. Universidad de Sonora. 0128-47 SS, E/L mx, ID; F (Meehan). 0155\* w/ march (Hauser). \*1700, fades into QRM around 0300; all-SS (B. Davis).
- 6120 HAITI. 4VEH. 1150-1205 Creole-type ancts; real catch for me in Aust. (Willis 9/20)
- 6125 HONDURAS. R. Suyapa. 0539 ID as "La Carifosa" (McCoy), 1205 SS ancts u/ VOA (").
- 6130 GHANA. RG. 0630-0800 EE (Hanner, Willis). 2245 EE, nx, ID (Booker, Perdue, Zilmer)

- 6130 (T) LAOS. RNL. 1141 clas piano mx, W in FF 1145, Lao-type mx 1150; 1200 pips, W in presumed Lao nx; brief piano 1211 then back to W; F; long wanted! (Dexter 9/14).
- 6135 BRAZIL. RTV Gaucha. 0815 PP, ID, ads; VG (Lineback). 0910 PP; very loud (Willis).
- 6140 BURUNDI. Bujumbura. 0331 drum IS, FF ID, anthem; F (Henderson 9/15). 0415-30 FF nx, ID 0427, many mentions of military; surprisingly in clear (Mayer 10/1)
- 6145 NIGERIA. NBC, Calabar. 2130-2200 C/W mx, EE, ID's; G (Mayer).
- 6155 AUSTRIA. ORF. 0145-0200 EE, pgm on Schubert; P (Barnes). 0750 GG, mixing (Hanner).
- 6155 JAPAN. FEN. 0800 EE ID, nx; 1159 theme, ID, nx (Hauser).
- 6160 CANADA. CKZN. 0911 ID, T/C, pop mx; P (Jones).
- 6165 ASIATIC USSR. RM. 1800 CC, OC, IS; Vladivostok listed (Hauser).
- 6175 BRAZIL. R. Guarani. 0900 PP ancts; F, later mix Malaysia and China (Willis).
- 6175 FRANCE. ORTF. 0800 FF nx via LP (Hanner 9/29).
- 6180N ECUADOR. HCJB. \*1100-30 RR, JJ to 1200\*, repl 9715, I think (Willis 9/21)
- 6185 ETHIOPIA. Addis Ababa. \*0330 in lang, then weird mx; G, reasonably in clear (Niblack via NU). 1435 in Afar; F u/ VOA (Willis).
- 6190 ASIATIC USSR. Mayak // 6035, 6070, 6080 at 1755. QTH? (Hauser)
- 6195 CHILE. LV de Chile. 1020-40 EE nx, comment (Zilmer)
- 6195 MALAYSIA. BBC Tebrau. 1800 identifiable (Hauser 9/27)
- 6195 NIGERIA. NBC, Sokoto. 0538-0611 Af chants, 0600 EE nx; BBC hrd u/ (Earhart).
- 6200 ALBANIA. Tirana. \*0130-45 EE, cmtry (Barnes, Brunner). 0345 same (Talbot).

A tip of the Frendx Fedora to the following reporters: Mike AGNER, Waldwick, NJ (SX110); John ALCOCK, St. Petersburg, FL; William BARNES, Colchester, VT (HA600A); Sam BARTO, Watertown, CT (BC794); Lawson BOOKER, Columbus, OH (RA); Larry BROOKWELL, Chapala, Jal., Mexico (R4B); Charles BRUNNER, Salford, PA (D7000Y); J. COLE, Denver, CO (SW4A); Allan COURTNEY, Lexington, KY (SX190); Hadley CRESS, Harrisonburg, VA (R4C/SX190); Bill DAVIS, Laguna Niguel, CA (homebrew); Jim DAVIS, Travis AFB, CA (GR64); Gerry DEXTER, Lake Geneva, WI (R4B/HQ180); Denny DRISCOLL, Asheboro, NC (SPR4); Kenneth EARTHART, Allentown, PA (SX-190/SX150); Marlin FIELD, Hillsdale, MI (SX100); Henry FINO, Rochester, NY (1936 RCA Victor); John GENDRON, Arlington, VA (SX190); Robert HANNER, So. Calfield, Victoria, Australia (Trio 9R59DE); Glenn HAUSER, Enid, OK (HQ160); Dan HENDERSON, Laurel, MD (HQ180A/SX-190/SPR4); Bob HILL (Editor), Berkeley, CA (R390/RCA CRM6A); Jack JONES, Jackson, MS (DX-150A); Jerry LINEBACK, St. Joseph, IL (SPR4); Brandon LOVETT, Coldwater, OH (SX150A); Larry MAGNE, Philadelphia, PA (R4B); Alan MAYER, Park Forest, IL (SB310/DX150B/NCL73); Daniel MCCARTHY, Terre Haute, IN (WR600W); Bob MCCOY, Lincoln, NB (DX150B); Jim MEEHAN, Berkeley, CA (SX190); Al MILLER, Youngstown, OH (HRO500); Gus MILLER, Newark, CA (DX150A); Al NEITZEL, Lancaster, NY; Mike O'SHEA, Buffalo, NY; Pat PATTERSON, Decatur, GA (SW4A); Mike PERAAHO, Chisholm, MN (SPR4); Neil PERDUE, Millington, TN (SB313/HA600A/SW4A); Chuck RIPPEL, Virginia Beach, VA (R4B/SP600/HQ180); D. SCHELLING, Buena Park, CA (DX160); George SCHNABEL, Rochester, NY (SW4A); Richard SCHWARTZ, Dover, DE (SX190); Ed SHAW, Norfolk, VA (SP600/SX190); Mike SHOCKLEY, Waukee, IA (DX150A); Myron SMITH, Spencerport, NY (NC188); Elliott STRAUS, Long Branch, NJ (R390); Kevin SZOT, Vacaville, CA (NC183D); Larry TALBOT, Menominee Falls, WI (SB313); Glenn THOMPSON, Deming, NM (HQ145A); Rosemary TRZASKUS, Chicago, IL (S125); John TUCHSCHERER, Neenah, WI (HQ180A/HQ100A); Craig TYSON, Wembley, W. Australia (9R59DE); Steve WALLACE, Lewistown, PA (R4B/DX150A); Art WEAVER, Lincoln, NB (Sony TFM1600B); Michael WELLS, Hampton, Victoria, Australia (9R59DE); Charlie WOOTEN, Bethesda, MD (R390/SRR13/Zenith T-O/GR78/Blaupunkt); Bob ZILMER, Milwaukee, WI (SPR4).

And thanks to the following organizations from which we purloined a couple of items: BAND-SPREAD (BS), Neath, Wales; NUMERO UNO (NU), Kenosha, WI; SWEDEN CALLING DX'ERS (SCDX), Stockholm, Sweden; TROPICAL DX NEWSLETTER (TDXN), Washington, D.C.

I'm afraid that my first editorial effort for you has been unmercifully rushed owing to lack of time; please bear with me until things settle down!

As any editor will tell you, his job is far easier when contributors all play the game the same way. You'll help a lot if you observe the following pleas, please: REPORT SELECTIVELY. LR is supposed to be a DX roundup, not a band survey. Send in only your best catches. If there are twenty items in your log and fifteen of them are common everyday stuff, then send in only the five others!

DON'T OVER-ABBREVIATE. If in doubt, spell it out. It's the editor's job to abbreviate. When abbreviating, use only common, standard or unmistakable ones.

REPORT SWBC ONLY. CCB harmonics, number stations and the like are interesting and in some cases fascinating -- but they aren't SWBC. A CCB harmonic is OK once in a while if it's truly unusual.

MAKE EACH ITEM COMPLETE. Put your last

name after each item. Include times -- items lacking times receive a prompt funeral in the circular file. Include dates for all unusual catches. Give details, especially for Latin Americans: "SS, L/A mx" describes almost every station south of the border! If you must print, please take care to print legibly.

USE NASWA REPORT FORMS if possible. Editor Dan will be happy to fix you up with a supply. It's annoying to have to deal with all different shapes and sizes of paper.

CUT ITEMS APART before sending in, and you'll receive a veri from Tristan da Cunha in the next mail! It's a huge help, OM's. OBSERVE DEADLINES. Mine is the 12th, so mail by the 8th or 9th at the latest.

These requests apply to Editors Leonard and Lineback too, I'm sure. Help us help you to keep NASWA #1 in SWBC DX!

73 and good listening.

*Bob*

WLARR/WB6GLF

## LOG REPORT

B

B Section Editor: M. R. LEONHARDT, P.O. BOX 13, LIBERTY, IND 47353

- 6205 UNID. Guess RNI testing, 2200 9/15, same level and fading as found on RNI 6210 before shut down, pops only, no anmts, off and on several times, then gone (Magne) / (Willis-Austi)
- 6215 CLANDESTINE Pathet Lao; 1119 Lao anmts //4660, 7479, 6200 and very loud
- 6250t EQ. GUINEA R.Santa Isabet; 0528 continuous drums and Afr chanting till 0500 f/o. Very tentative (J.Davis)
- 6260 CHINA Sining; Fair w/CC talks on the Taiwan situation (Willis-Austi) Time?
- 6338.5 UNID. Possibly African, 2135 FF, OM followed by choral. Excellent 10/5, gone abrupt 2145 (Shaw)
- 6450 USA R.Polaris; 0100 EE, rock mx, 100 watts. Mailing address; c/o JDF, Jr. 1720 Forest Drive, Kalamazoo, MI 49081, requesting 25¢ return postage. (See 8608.33 - MRL)
- 6478 CLANDESTINE Voice of the Popular Front for the Liberation of Oman and the Arab Gulf; 1450-1500 AA talks, very poor 9/10 (Willis-Austi)
- 6900 TURKEY Ankara Meteorological Svc; 0450 TT, YL vocals on before normal s/on. Best ever heard. Covered by mpX ute at 0500 (Shaw)
- 7015 CLANDESTINE VoNUFK; \*1325 in Khmer, and a big signal 9/9 (Willis-Austi)
- 7065 ALBANIA R.Tirana; 0018 EE, cmntry (Martin)
- 7105 ALBANIA R.Tirana; 2035 EE, cmntry (Erbrecht-Morocco)
- 7105 MONACO TWR; 0625-0720 EE, rel px, mx, ID (Courtney, Earhart)
- 7105 ENGLAND BBC; 0632 FF, nx by OM (Earhart)
- 7108a THAILAND Thai TV; 1115 Thai talks by OM (Gendron)
- 7110 MALI R.Mali; 2135 AA, 1cl folk mx (Wootten)
- 7110 JAVA RRI Yogyakarta; Booming in from 1221 f/i w/typical RRI pgming, clear ID's, net work nx on the hour, s/off 1358 after a few bird calls 10/5 (d'Adolf)
- 7115 CHINA R.Peking; 2350 SS px, ID's (Schwartz) / Wootten
- 7150 ALBANIA R.Peking relay; 0106;0300-0350 EE, cmntry, mx (Martin, Thompson)
- 7120 ENGLAND BBC; 0350 EE, choir: mx (J.Davis)
- 7125 GUINEA LV du Revolution; 0140-0300 FF, 1cl mx, talks (Mayer)
- 7130 TAIWAN VoFC; 0408 EE, nx, mx, talks (Fields)
- 7130nf CHINA R.Peking; \*1100 RR, mixing w/Taipei, jammed (Willis-Austi)
- 7135 LIBERIA VoA Monrovia; 2150 FF px to W.Afr (Wootten); 2230 \*\*EE ID (C'mer)
- 7135 FRANCE ORTF; 0515-0530 EE, nx to Afr. (Meehan)
- 7145 USSR R.Moscow; 0118 EE nx, CW QRM (Martin)
- 7150 USSR R.Moscow; 0405 EE, nx, cmntry (Wootten)
- 7160 MALTA DW Nigret; 0340 OM & YL in unid lang (J.Davis)
- 7165 CHINA Foochow; 1015 CC talk by YL, Jayapura on 7190 (Willis-Austi)
- 7165 ETHIOPIA ETLF; 0300 Swahili talk, 0410 EE nx and cmntry (Fields)
- 7185 USSR R.Moscow; 1200 EE, nx, mailbag px (Zilmer)
- 7195 LIBERIA VoA Monrovia; 2155 EE nx analysis (Wootten); 2300 EE ID (Creamer); 0310 EE talks (J. Davis, Fields)
- 7200 ENGLAND VoA Woolferton; 0414 EE interviews (Wootten)
- 7215 PORTUGAL R. Free Europe; 0443 PP, OM talks, clear ID (Brookwell) Portuguese talks from RFE ? MRL
- 7220 AUSTRALIA RA; 0510; 1102 EE, nx (Martin, Creamer)
- 7220 MOROCCO VoA Tangier; 0635 EE px (Fields)
- 7225 RWANDA DW Kigali; 0405-0440 Swahili, native mx EE ID (Thompson)
- 7225 PHILIPPINES FEBC; 1245-1315 Indonesian, organ mx, ID (Thompson)
- 7230 SOUTH AFRICA Radio RSA; 0255 EE, ID's, nx (Schwartz)
- 7235 W.GERMANY DW; \*2205 talks in lang, mx, ARO QRM (Wootten)

- 7265nf PAKISTAN R, Pakistan; EE, sports mixing w/USSR //969Q (Willis-Austi)
- 7265 USSR (Believed Vladivostok) 1430-1530 carries "Radio Station Pacific Ocean" on Wed, Fri, Sat & Sun, all RR //9590, 9620, 9690, 9770 (B. Davis)
- 7270 SOUTHAFRICA Radio RSA; 0300-0400 EE, nx, sports (J. Davis, Thompson, M. Smith, G. Miller, Meehan)
- 7275 NIGERIA VoN; 0700 EE ID then 5 min drum roll, nx (G. Miller)
- 7280 LIBERIA VoA Monrovia; #0300-0335 EE, nx, cmntry (Thompson, J. Davis); 0615 EE, "African Safari" px (Schwartz)
- 7280 W. GERMANY DW; 0200 EE, "Learning German" px ARO QRM (Martin)
- 7295 AUSTRALIA RA; (Cf a previous report on RA to NoAmer since 9/1 at 1115-1245) By 9/29 this freq had been dropped, with 9580 then only one ancd at 1243 s/off. Perhaps pressure from American hams? This freq solidly occupied by a 4th-call-area net instead, on AM (Hauser); 1230-1245 EE, nx YL ancd (Thompson); 0550, EE, nx //9580 (Creamer)
- 7295 MALAYSIA Penang; 0955 EE talk by OM. Always good (Willis-Austi)
- 7295 GREECE VoA Kavala; 0515 EE, ID, "Breakfast Show" px (Courtney)
- 7300 ALBANIA R, Tirana; #0130-0155\* EE, Albanian Youth Movement talk (Barnes)
- 7310 USSR R. P. & P.; 1400 talks in lang, probably nx (G. Miller)
- 7325 ENGLAND BBC; 2255; 0020; 0300 EE, nx, drama (Brunner, Creamer, J. Davis)
- 7325 ESPANUMEROS (My tag for Spanish numbers station) 0624 Sept 23, very strong YL saying "Atencion 294 45" then mechanically giving 45 groups of 5-digit ciphers until "Final, final". Exactly on BBC freq revealed afterwards (Hauser)
- 7345 CZECHOSLOVAKIA R. Prague; 0140-0157\* EE, mx, ID (Barnes); 0425 SS
- 7395 ISRAEL IBA; 0400 EE, nx (Zilmer) / (M. Smith)
- 7405 N. KOREA R, Pyongyang; 1300 EE, nx, talks, mx (G. Miller)
- 7500 AUSTRALIA VNG Time Station; 1215 EE, time pips, ID (Barnes)
- 7504 CHINA R, Peking; 2305 YL w/CC talk (Mayer)
- 7580 N. KOREA R, Pyongyang; 1340 EE ID, KK mx, xmsn to SEA (Hauser)
- 8608, 33 USA R, Polaris; 0130-0200 EE, rock mx and DX px, 100 watts. EDITOR'S NOTE: I have reported this item and the one on 6450 exactly as given, but am not sure if this is some sort of put on or not. Contributor's name and proper credit to be given on receipt of further information or verification by other reporters - MRL
- 8630 LIBYA - LBTVS; 2218 AA, Well, well look who's back. No // found, good lvl, OM cmntry, vocal and flute mx 10/5 (Shaw)
- 8404 CLANDESTINE Voice of Free Yemeni South; First found here at 1417, very weak and fluttery w/chants and exhortations in AA. Then checked 5244, 5 and found // and immensely superior there. Anthem 1430 and off, which does not jibe with listed 1500\* (This on a Sunday). Judging by vast difference in reception quality between 8404 and 5344, 5, I would say the former was coming in SP and the latter LP. Longpath signals from that area would always be stronger and sturdier at that hour (Hill) Item out of order, sorry MRL
- 8566 CHINA R, Peking; 1406-1454\* About as strong as I've ever heard Peking. On 10/6 in Mongolian or very similar (Hill) Item out of order, sorry MRL
- 9009 ISRAEL IBA; 0400 EE, nx (Zilmer)
- 9022 IRAN VoI; 200-2015 EE talk, ID's (Brunner)
- 9050nf IRAN R, Iran; 1320 Farsi anmts // 15084, 7064, 9 (Willis-Austi)
- 9332 CANADA RCI; #2200 EE talk on rock mx. Test in USB 9/20 (Zilmer)
- 9370 N. KOREA R, Pyongyang; 1200 EE, nx, cmntry (Zilmer)
- 9410 ENGLAND BBC; 1645 EE, World Service nx (Jones)
- 9463 PAKISTAN R, Pakistan; 2030 EE, "Do You Know Pakistan" px (Ebrecht-Morocco)
- 9475 EGYPT R, Cairo; 0020-0230 EE talks, AA type mx (Schelling, Brunner)
- 9480 CANADA CBC; 0610 EE, Northern service (Jones)
- 9490nf ALBANIA R, Tirana; 0610 AA, nx. Replaces 9500, but is irregular (Willis-Aus)
- 9495 ISRAEL IBA; 1630 "Shalom", bugles, IS and carrier off (Jones)
- 9500 ALBANIA R, Tirana; 2125 PP, ID, anmts, songs (Fino)
- 9505 JAPAN NHK; 0700-0730 EE, nx, mx (Fields); 1000-1035\* EE, nx (Barnes)
- 9505 DOMINICAN REP RTV Dominicana; 2310-0330 SS, ID's jingles (Courtney, Wooten, Barnes) / Jones, Tuchscherer
- 9510 VENEZUELA R, Barquisimeto; 1115; 1255; 1522 SS, ID's, talk, mx (Courtney)
- 9510 ASCENSION ISLAND BBC; 2315-0100 EE, nx, drama, talk show (Wooten, Fino, Barnes, Baines)
- 9515 CANADA CBC; #0700 FF px, all over Turkey and Madrid. Is unlisted in engineering sked (Willis-Austi)
- 9515t TURKEY VoT; 0405 Reed instrument mx, drums, then chant type song (Earhart)

- 9515 LIBERIA VoA Monrovia; 2317 EE, space talk (Wootten)  
 9520 SPAIN RNE; 0055 SS, mx, nx, QRM Moscow (Tuchscherer)  
 9525t CUBA R. Habana; 2324 II, music and talk, no ID but Havana mentioned (Wootten); 0635 EE, talk (J. Davis)  
 9525 SOUTH AFRICA Radio RSA; \*2100-2120 EE, nx, "African Survey" px (Fino, Brunner, Creamer, Baines); 0515-0540 FF, nx, US oldies (Earhart)  
 9530 SPAIN RNE; 2155 SS, IS, ID, px anmts. Much QRM (Fino)  
 9530 USSR R. Moscow; 2325 EE talk on generation differences (Wootten)  
 9535 W. GERMANY DW; 2326 GG, nx, QRM Moscow (Wootten)  
 9535 SWITZERLAND SBC; \*0145 EE talk about Swiss circus (Schelling, Baines)  
 9540 NEW ZEALAND NZBC; 0730 EE talks (Jones)  
 9540 CZECHOSLOVAKIA R. Prague; 2334 GG px. A new time for this (Wootten)  
 9540 POLAND Polish Radio; 1607-1630 EE, mx, ID's, excellent lvl (Brunner)  
 9545 BRAZIL R. Universo; 0243-0300\* PP talks (M. Smith)  
 9545 W. GERMANY DW; \*0130-0145 EE, nx. Weak (Barnes)  
 9545 GHANA R. Ghana; 2115 EE, nx, cmntry (Erbrecht-Morocco)  
 9550 CHILE Voice of Chile; 0030-0100\* EE px, back at 0230 w/EE political cmntry to 0243, followed by anmts of broadcast times and into mx at 0245. Is alternating with 9550 and 9560 in both EE and SS. Apparently insists on using 9560 if HCJB is not. However, on same date (Oct 8) HCJB was solid on 9560 from 0030-0415. Good signal on 9550 (Cress)  
 9555 MEXICO La Hora Exacta; 1748 noted Oct 1 four seconds fast compared to WWV. If relied on for navigation would cause considerable error. Operates irregularly. DXers within 1500 mile of Mexico City should check for it on 91.3 during Es openings (FM); always has het on SW (Hauser)  
 9555 CANADA CBC; 0200 special freq for election coverage 10/11; sounded like Sackville relay replacing 9740 at 0200, stayed till 0330 (Hauser)  
 9560 ECUADOR HCJB; \*0100-0115 EE, mx (Barnes)  
 9560 CHILE VoC; Announced EE 2210, 0030, 0430, 0920 and 1220 (M. Smith); into SS 0245 (Schilling); 2215 SS talks, mx (Zilmer); 0450 SS noted through HCJB (Brookwell)  
 9570nf NETH ANTILLES TWR; 1045-1100 SS rel talk, mixing w/RA (Tuchscherer)  
 9570 CHILE R. Portales; 2330; 0058; 0102 SS, ID's, talks, mx (Zilmer, A. Miller)  
 9570 AUSTRALIA RA; 0645; 0710; 1130 EE, mx, ID, talks (Ebrecht, Barnes, C'ney)  
 9570 NIGERIA RTV Kaduna; Drums after anmts at 0615, ID in Hausa (Willis-Austl)  
 9570 RUMANIA R. Bucharest; 2341 Rumanian talks, folk mx (Wootten)  
 9575 ITALY RAI; 2345 II, variety px (Wootten); \*0100 EE, nx (Brunner, Barnes)  
 9575 RSFSR (Unid site); 0200 RR Malayk px (J. Davis)  
 9578-80v PHILIPPINES VoP; 1245 EE, cmntry on a parade after RA s/off (Zilmer); 1250-1313 EE/lang bi-lingual coverage of Philippine President's wife's visit to China, ID as "R. Philipinas", mixing w/R. Mar after 1300 (Perdue); 1310-1330 EE, marching mx, OM w/sports report. Change in format here from quiet YL's w/poetry (Mayer)  
 9580 NICARAGUA R. Mar; 1550-1600 SS, march mx, ID's, pop mx; 2058 SS, LA mx, ID smothered by BBC, first time noted here in lcl evening (Perdue); 1533 SS ID and freqs by YL then US rock mx (Jones) / (Barnes)  
 9580 ENGLAND BBC; 2345-0100 EE, Victor Sylvester orch px, drama (Wootten)  
 9580 AUSTRALIA RA; 0530 EE, ID, nx // 7295 (Creamer); 1130 EE (Barnes)  
 9585 JAPAN NHK; \*1200; \*1300 EE, IS, ID, nx, cmntry (Zilmer, Perdue)  
 9585 SOUTH AFRICA Radio RSA; 2245-2300 EE, "African Panorama" px (Thompson)  
 9590 USSR R. Moscow; 2352 SS, nx, mx (Wootten)  
 9595 PORTUGAL R. Free Europe; 2348 Polish talks, jammer not too effective (W'ten)  
 9595 BRAZIL R. Cultura da Bahia; 2315 PP talks, mx (Zilmer)  
 9600 USSR R. Moscow; 2359 SS, nx, etc (Wootten)  
 9605 JAPAN NHK; 1850 EE, economic talk (Tuchscherer) / (Barnes)  
 9605 VATICAN Vatican Radio; 0100 EE, "Social Dimensions of the Holy Year" px  
 9610 AUSTRALIA RA; 1000 EE, mx, sports (Barnes); 1515 EE, vocals (Thompson)  
 9610 MAURITANIA Nouakchott; \*0800 over Moscow and RA, FF anmts (Willis)  
 9610 USSR R. Moscow; 0012 SS, nx, etc //9600, 9735 (Wootten)  
 9615 USA KGEI; 0530 SS, nx, ID, piano mx (Earhart); 1350 SS, lite mx (T'scherer)  
 9615 VATICAN Vatican Radio; 0017 II, rel px (Wootten)  
 9620 FRANCE ORTF; 2300 FF, nx (A. Miller)  
 9625 UNID. 1305-1400 CC station, pops like but not Singapore, no ID's (Willis-Austl)  
 9625nf VATICAN Vatican Radio; 0700 Latin Mass ex 9645 (Willis-Austl)  
 9625nf INDIA AIR Delhi; 1320 EE, sports //9535, 9615, 6160 (Willis-Austl)  
 9625 CANADA CBC; 1215 EE, nx, folk mx (Barnes, Meehan)

- 9635 COLOMBIA R, Nacional; 1115 EE lang Iesson (Zilmer)  
 9640 ENGLAND BBC; 0620 EE, British Press Review (Courtney)  
 9640 S. KOREA R, Korea; 1400 EE, station anmts (G. Miller)  
 9645 BRAZIL R, Bandeirantes; 0946 PP anmts, Poor. (Willis-Austl)  
 9645 COSTA RICA TIFC; 0400 EE rel px (Zilmer)  
 9646-47.2v GUINEA Rdiff Nationale; 2145 FF, native mx (Zilmer); 0455 FF, native mx. Way off freq. (Earhart)  
 9650nf MONACO TWR; \*0530 RR ID //11855 (Willis-Austl)  
 9650 ECUADOR HCJB; \*0200-0215 EE, DX Party Line - new 500kw xmtr being built in USA, will operate 40% power normally (Brunner)  
 9655nf HUNGARY R, Budapest; \*0600-0800\* HS in Hungarian, announcing "Kossuth Radio Budapest". Very loud must be 250 kw, is not regular though (Willis-Austl); 1945-1955 EE, World nx (Tuchscherer)  
 9655 CANADA RCI; 0112 EE, talk on indians in Canada (Wootten); 0205-0250 FF, ID sports scores (Fino)  
 9658 ZAIRE Voix du Zaire; 2245 EE/Lang talks, mx (Zilmer)  
 9660 VENEZUELA R, Rumbos; 1045-1100 SS, mx, ID, Good. (Barnes)  
 9665 USSR R, Moscow; 0114 EE, "Moscow Mailbag" px (Wootten)  
 9670 W. GERMANY DW; \*0120 EE, nx to SoAsia (Wootten)  
 9675 POLAND R, Warsaw; 0125 Polish, lite mx, ID (Wootten)  
 9675 BRAZIL R, Diario da Manha; 1100 PP ID's (Jones); 2245 PP talks (Zilmer)  
 9675 JAPAN NHK; 1115 EE, nx (Zilmer)  
 9680 UNID. USA? BBC Spanish //6010, but an echo w/9765 (Ascension): EE lang Iessons 0240 10/11, believe VoA relay; may be temporary freq (Hauser)  
 9685 CHINA R, Peking; \*1200-1255 EE, nx, cmntry (Barnes)  
 9685 BRAZIL R, Gazeta; 2250 PP talks (Zilmer)  
 9685 ALGERIA RTVA; 2315 AA, chants, mx //11715 (Zilmer)  
 9685 USSR R, Moscow; 0000 EE, talk on USSR-USA detente (Brunner)  
 9690 W. GERMANY DW; 0128 EE, nx, etc //6040, 6075, 9545 (Wootten, Barnes)  
 9690 PAKISTAN R, Pakistan; 1300 EE, nx, cmntry, lcl mx (Zilmer)  
 9690 ARGENTINA R, Nacional; 0405 SS, classical mx, many ID's (Thompson); 0630 EE, talk on art, unusually strong (Earhart)  
 9690 RUMANIA R, Bucharest; 2102-2115 EE, YL with nx (Perdue)  
 9695 REECE VoA Kavaia; 0200 EE, world nx (Tuchscherer)  
 9695 BRAZIL R, Rio Mar; 2320 PP, mx, some US pops (Zilmer)  
 9700 BULGARIA R, Sofia; 0415 EE, DX px mentioning that Cameroon is building two new MW and one new 20 kw SW xmtrs (Cress)  
 9700 USSR R, Moscow; 0134 EE, news evaluations (Wootten)  
 9705 INDIA AIR; 1135 EE, nx, wx, freq sked (Zilmer)  
 9705 MEXICO XERMX; 0045 SS, orchestra mx, talks, ID (Thompson)  
 9710 MAURITIUS MBC; 1044 FF/Lang, Indian mx, anmts (Gendron); 1220-1301\* OM in lang talks, Indian mx, QRM SABC, s/off w/5 short and 1 long pip (Perdue)  
 9710 ITALY Rai; 2030; \*0140 II, nx, anmts (Fino, Wootten)  
 9715 HOLLAND RN; 2015 EE, mixing w/RAI (Fino); 0830 EE, mx, cmntry (E brecht)  
 9720 USSR R, Moscow; \*0200 EE, nx (Wootten)  
 9725 SWITZERLAND SBC; \*0145; 0200 EE, "DateLine" px (Wootten, Fino); 0345 II world nx (Tuchscherer)  
 9730 E. GERMANY RBI; 0110 EE, nx (A. Miller)  
 9730 USSR R, Moscow; 0030-0430 EE, "Moscow Mailbag" px (Fields)  
 9735 ENGLAND BBC; 0115 EE, ID, nx (Creamer)  
 9735 USSR R, Moscow; 0153 SS talks // 9745 (Wootten)  
 9740 CANADA BBC Sackville relay; 0200\* election returns (Hauser)  
 9740 LIBERIA VoA Monrovia; 0720 EE, "Breakfast Show" px (Courtney)  
 9750 INDIA AIR Madras; 1046 under Moscow HS w/variety px (Willis-Austl)  
 9750 CHILE R, Minera; 1030 SS, LA mx (Zilmer)  
 9750 TAHITI R, Tahiti; 0310-0400 Tahitian talks, island mx //11825 (Mayer, Cress)  
 9750 USSR Kenga; f/i 1330-1400\* RR, HS Mayak px. Weak w/polar fade (B. Davis)  
 9755 CANADA RCI; 0100-0130 EE, nx, talks. Replaces 9655 (Zilmer, Thompson)  
 9760 NETH ANTILLES TWR; 0450 AA, possibly rel px (Earhart)  
 9760 MOROCCO VoA Tangier; \*0200 Uzbekistani, nx to USSR (Wootten)  
 9765 W. GERMANY DW; 2100-2130 EE, nx, cmntry, features (Zilmer, Baines)  
 9770 HAWAII 4VEH; 1115 EE, hymns, rel message (Barnes, Willis-Austl)  
 9770 BRAZIL R, Ministerio da Educacao; 0930 PP anmts under Vienna (Willis-Austl); 2330 PP, talks, mx (Zilmer)  
 9770 USSR Viadivostok; 0630 RR, YL talking after RA s/off (J. Davis)  
 9785 BELGIUM RTB; 2300, Jackie Marshall DX px (Zilmer, Cress)

- 9785 USSR R.P.&P. via Orsha; EE \*1430-1500 & 1530-1600. Unknown Afr lang 1500-1530. Fades out by 1600. Strong signal, polar fade (B. Davis)
- 9785 USSR (Far east site) \*1500-1700\* Two stations operating same time, one w/CC px, other w/VV px (B. Davis)
- 9790 USSR Irkutsk; f/i 1330-1500\* RR HS, Mayak px. Fair signal (B. Davis)
- 9805 EGYPT R. Cairo; 2150 EE, nx (Zilmer, Baines)
- 9815 ISRAEL IBA; 1900 EE, nx and cmntry, ID 1909 (Cress); to return to standard time 10/12, which would retime the EE px to 2000-2045 (Hauser)
- 9912 INDIA AIR; 2205-2215 EE, nx, talks (Tuchscherer)
- 9915 ENGLAND BBC; \*0430-0445\* FF px; \*0500-0515 EE; 0515-0545 FF, 0545-0600 Hausa; 0600 EE (J. Davis)
- 9948 UNID. 1230 KK, OM & YL in dialog (Mayer)
- 9988 CLANDESTINE VNUFC; 1220-1230 lcl mx, QSB, OM & YL in talk (Mayer)
- 10025 UNID. 1830-1845 OM talks in lang, very weak in QRN (Tuchscherer)
- 10029nf CLANDESTINE Liberation Radio; 1145-1158\*, \*1200 VV FS, not //7416, 10224, clear ID 1200-1/2. Ex 10010 (Magne)
- 10068nf VIETNAM VoV; 1150 HS, ex 10060 (Magne)
- 10530 USSR Alma Ata; 1310 RR talk, very loud signal (Willis-Austl)
- 10870 USA VoA; 1335 SS on RC/SSB probably Greenville feeder to BBC Ascension. Also see 17830 (Hauser)
- 11120 CHINA China Press Agency, Peking; 1710 YL w/dictation news in CC. Weak, QRM, poor overaII (Hill)
- 11350 N. KOREA R. Pyongyang; 1950-0420 HS in KK, usually poor to about 0200 (B. Davis)
- 11530 NUMBERS on AM 2328, 4-digit, EE YL, 10/1 //12405 (qv) and left air simultaneously 2331;36; but I am fairly certain this was not a receiver image (Hauser)

Thanks to the thirty four contributors to the "B" section of LR, and they are as follows:

Fred K. BAINES, New Glasgow, N.S., Canada... William D. BARNES, Colchester VT (HA600A)... Larry BROOKWELL, Chapala, Mexico (R4B)... Charles H. BRUNNER, Salford, PA (D7000Y)... Allan COURTNEY, Lexington, KY (SX190)... John W. CREAMER, Denver CO (SW4A)... Hadley D. CRESS, Harrison, VA (SX190/R4C)... Steve d'ADOLF, El Paso, TX... Jim DAVIS, Travis AFB, CA (Heath GR-54)... W. F. DAVIS, Laguna Niguel, CA (Homebrew)... Kenneth A. EARHART, Allentown, PA (DX150A/SX190)... James W. EBRECHT, USN, Morocco (Zenith Transoceanic)... Tony FIELDS, Portage, MI (DX150A/TRS-26)... Henry E. FINO, Rochester, NY (RCA Victor Console)... John C. GENDRON, Arlington, VA (SX190)... Glenn HAUSER, Enid, OK (HQ160)... Bob HILL, Berkeley, CA (R-390)... Jack R. JONES, Jackson, MS (DX150A)... Larry MAGNE, Philadelphia, PA (R4B)... Ed MARTIN, Providence, RI (XCR30)... Alan MAYER, Park Forest, IL (SB-310/DX150B/NC173/A20/BCZ21AH)... Jim MEEHAN, Berkeley, CA (SX190) Albert A. MILLER, Youngstown, OH (HRO-500)... Gus MILLER, Newark, CA (DX150A)... Neal PERDUE, Millington, TN (SB-313/HA-600A/SW4A)... Don SHELLING, Buena Park, CA... Richard A. SCHWARTZ, Dover, DE (SX190/S-108/BCZ21AK)... Edward C. Shaw, Norfolk, VA (SP-600/SuperX-190)... Glenn L. THOMPSON, Deming, NM (HQ145A)... John TUCHSCHERER, Neenah, WI (HQ100A)... Myron SMITH, Spencerport, NY (NC188) Michael WILLIS, Hampton, Australia (Trio 9R59DE)... Charles A. WOOTEN, Bethesda, MD (R-390/SRR-13/Zenith Transoceanic/GR78)... Robert ZILMER, Milwaukee, WI (SPR4)

o o o (M. R. Leonhardt 10/21/74)

## LOG REPORT, SECTION C

C

Reports for this portion of LR go to Jerry Lineback, 411 So. Fourth, St. Joseph, Ill. 61873

- 11620 INDIA AIR; 1915 EE, sub-cont mx, //9575, 9525, all weak (Shaw 10-1)  
 11630 EGYPT R Cairo; 1900 AA, chants, YW host, good (Rippel 9-22)  
 11662 UNID; 1923, possible CC, low mod, YW tlc, unlike tent. Hargeisa, VP (Shaw 10-2)  
 11685 CHINA RP; 1230 EE, tlc anti-US/USSR detente, sea law cmntry, F-G (Brooks, Perdue, Ebrecht-Morocco)  
 11690 USSR RM; 0610 EE, amts, strong, to NA, (Willis-Australia 9-12)  
 11700 GERMANY (DR) RBI; \*1300 AA, nx, class mx, features, interviews, (Brooks)  
 11705 MALTA DW; 1615-1630 GG, EE ID, request reports, fair (Miller 9-18, Schwartz 9-21)  
 11705 SWEDEN RS; 0230 EE, Saturday show to Australia, ex 11940, fair (Zilmer 10-6)  
 11705 JAPAN NHK; 2240 EE, IS, EE ID, QRM from 3 other sta on freq, poor (Perdue 10-4)  
 11710NF USSR RM; 1300, VV ID, (Willis-Australia 9-15)  
 11710 CANADA RCI; 0130 EE, features, poor (Wootten 9-14)  
 11710 ARGENTINA RAE; 2258 FF, 2303-2345 EE, ID, amts, nx, mx, fair-good (Wootten, Barnes 9-13, Cole, Brunner)  
 11715 SWITZERLAND SBC; \*0145 EE, nx to NA, fair, (Wootten 9-14)  
 11720 SWITZERLAND SBC; 2100-2120 EE, nx, Swiss SW Merry-go-round to Africa, poor under Canada, \*1315 in EE under Peking, (Wootten 9-14, Zilmer 10-2, Willis-Aust 9-15)  
 11720 CANADA CBC; Canada vs. USSR in Hockey, EE, (Tobin). Time?  
 11730 MALAGASY REP RN; 2023-2128 EE, mx, fair, QRM, (Fino 9-29, Hauser 9-19)  
 11730 HOLLAND RN; \*2130 EE to ECNA, nx, //9715, good (Wootten 9-14)  
 11735 MOROCCO RTM; 2040-2115 FF, AA mx, (J. Davis 9-8)  
 11735t FRANCE ORTF; 0635-0650 FF, pops & instrumentals, no ID, fair (Earhart 9-8)  
 11740 INDIA AIR; 2145 Lang, local mx, W speaking, fair after VR s/off, (Wootten 9-14)  
 11740 VATICAN VR; 2145\* SS, rel px, good (Wootten 9-14)  
 11740 USA VoA Bethany; 2304 SS, nx to LA, good (Wootten 9-13)  
 11740 MALAGASY REP RN; \*1230 Indon, (Brooks)  
 11750 VENEZUELA R Nac; 0000 EE, nx, market rept, LA mx, Int. Svc. to NA, fair (Zilmer)  
 11750 ENGLAND BBC; 2129-2148 EE, WS, mx px, fair-good (Fino 9-29, Wootten 9-14)  
 11755 USSR RM; 2202 Lang, IS, QRM from RHC, BBC, poor (Wootten 9-14)  
 11755 UNID; 0600-0800 AA, 6 time pips, high pitched Big Ben like chime, poor mod, irr, (Willis-Australia 9-25). RM possible-ed.  
 11755 SWEDEN RS; 0030 EE, ID, nx, fair (Creamer)  
 11757 CHILE Jammer; beeps as late as 0537, //11870, 11810, even when no RHC, (Hauser)  
 11760 CUBA RHC; 2030, 2200, 1217 SS, 0400-0415 EE, nx, tlc, mx, fair-good, (Fino 9-29, Camilla 10-6, Wootten 9-14, Trzaskus 10-6) 9-14, Fino 9-24)  
 11765 GERMANY (FR) DW; 2040-2105, 2210 GG, nx, tlc, IS, ID, QRM, fair-good, (Wootten / Mexico R Mex; 0045-0115, 0230-0240 SS, orch mx, US pops, singing ID, good (Schwartz 9-10, Thompson 9-25)  
 11770 NIGERIA VoN; 0558-0615 EE, ID, tlc abt Africa, nx, QRM, fair-poor (Earhart 9-9)  
 11770 ENGLAND BBC; 2330 EE, request px, on Sunday, (Talbot)  
 11775 SPAIN RNE; 2145 IS, (J. Davis 9-8)  
 11775 ETHIOPIA ETLF; \*1845 Hausa, world nx, (Brooks)  
 11780 ENGLAND BBC; 2234 EE, pop club to NA, good (Wootten 9-14)  
 11780 BRAZIL R Nac; 2100-2200\* EE, tlc, mx, ID, features, sometimes QRM, P-G (many)  
 11780NF SAUDI ARABIA BSKSA; 1720-1735 AA, ME mx, tlc by M, (Tuchscherer 9-24)  
 11785 BRAZIL R Guaiba; 2255 PP, tlc, mx, QRM BBC, fair (Zilmer 9-20) -Australia)  
 11785 EGYPT R Cairo; 0800-1400, AA amts, //15175, goes from long to short path, (Willis)  
 11790 USA AFRTS Greenville; 2239 EE, nx spots to Eu., fair, (Wootten 9-14)  
 11790NF VATICAN VR; \*1500 EE to India, ID, 0620-0635 EE/Latin mx, poor-good (Perdue 9-27, Earhart 9-8)  
 11790t ROMANIA RB; 1730 EE to Africa, amnt //15365, 9590, nx lead with Bucharest item, but then covered by AFRTS, could have been RBI, (Hauser 10-10)  
 11795 GERMANY (FR) DW; \*0230 SS, (J. Davis 9-15)  
 11800 SRI LANKA SLBC; 1650 Hindi, oriental mx, ID in EE at 1700, fair (Miller)  
 11800 CANARY IS RNE; 2150, 2242 SS, mx, tlc, ID, nx, good (Brooks, Wootten 9-14)  
 11805 USA AFRTS Delano; \*1800 EE, Delano ID, covering RTB, (Brooks)  
 11805NF BELGIUM RTB; 1750 IS, \*1800 FF, (Brooks)  
 11805 BRAZIL R Globo; 0910 PP, very fluttery, best of Brazilians, (Willis-Australia 9-7)  
 11810 USSR RM Mayak; 1729, half hour 8 note IS, Moscow TC, ID, (Hauser)  
 11810 CHILE VoC; 1220-1230, EE, 0442 EE into SS, 0047 EE ID then SS, 0502\*, nx, cmntry, (Booker 10-11, Hauser 9-23, Zilmer 9-29, Alder 9-29)  
 11810 INDIA AIR; 1330-1340 EE, national and world nx, (Tuchscherer 10-4)  
 11810 GERMANY (FR) DW; 2245 SS, radio play, //11795, good (Wootten 9-14)  
 11815 POLAND RP; 1635 EE, nx, cmntry, fair (Ebrecht-Morocco) Agner 9-16)  
 11815 BRAZIL R Bras. Cent.; 2248, 0145 PP, mx, ID, tlc, QRM TWR, VP-G (Wootten 9-14, / NETH ANT TWR; 0100-0135 EE, nx, mx, rel px, 1130-1200 EE, rel tlc, mx, good, (Brunner, Barnes 9-1, Thompson 9-20, Fino 9-29)  
 11820 ASCENSION IS BBC; 2000-2115 EE, WS, 2300 PP, mx, nx, good (Wootten 9-14, Hauser)  
 11820 MEXICO XEBR Hermosillo; 1400-1415, 1625 SS, LA mx, ads, poor (Miller, Tuchscherer)  
 11825t BRAZIL R Jornal de Comercio; 0140 PP, mx, very poor (Agner 9-15)  
 11825 TAHITI RT; 0450 FF, excellent with mx, (Alder 9-29)  
 11835t URUGUAY R El Espectador; 2305 SS, pops, ads, fair (Wootten 9-14)  
 11835 HAITI R 4VEH; 1300-1405 EE, nx, wx, rel px, fair-good (Brunner, Thompson 9-21)

- 11835RF FRANCE ORTF; 0600 FF anmts, mixing with HCJB, (Willis-Australia 9-14)  
 11835NF ECUADOR HCJB; 0700-0715 FF, under HCJB SS svc.; (Willis-Australia 9-17)  
 11835 USSR RP&P; 1535 EE, tlk by M, ID, good, (Perdue 9-24)  
 11840 USA VoA Greenville; 1950 FF, rock mx to Eu, fair (Wootten 9-15)  
 11845NF ECUADOR HCJB; 2030 SS, mx, rel px, to Eu, fair (Wootten 9-15)  
 11850 GHANA RG; 2045 EE, tlks, local ms, some US pops, QRM Canada, poor (Wootten 9-15)  
 11850 INDIA AIR; 1135-1150 EE, nx, detailed wx, local mx, P-F (Zilmer 10-5, Perdue 10-5)  
 11850 NORWAY RN; 2205 EE, cmntry, good (Ebrecht-Morocco)  
 11855 BELGIUM RTB; 2255 EE, letter from Belgium, (Brooks)  
 11855 USA WYFR; 2300 SS, rel px, (Brooks) 9-27, Ebrecht-Mor  
 11855 CANADA RCI; 1833-1847, no nx due to strike, mx, features, 2100 nx, spts, (Hauser/  
 11855 SEYCHELLES FEBA; 1745-1800 EE, rel px, EE twice a week (Tuchscherer 10-8)  
 11860 TAIWAN VOFC; \*0900 CC now replacing JJ, (Willis-Australia 9-10)  
 11860 SPAIN RNE; 0051-0110 SS, anmts by M&W, mx, QRM, QRN, fair-good (Fino 9-29)  
 11860 NORWAY RN; 1810-1820 EE tlk on sea law conf, 2300 MN, nx, mx (folk and pop of Norway, talks, (Brooks, Brunner)  
 11861v ZAIRE R Lubumbashi; 1845 FF, tlks, some Afro chorals, fair (Rippel 9-21)  
 11866v MALTA DW; 2240\*, 0430\*, 0430\*, GG, EE ID, cmntry, (Estes, Brooks, Hauser 10-4)  
 11866v BRAZIL R C Pernambuco; 2000, 2055, 2343, 0430\*, 0858 PP, fast tlks, mx, fair-poor (Rippel 9-21, Wootten 9-15, Willis-Australia 9-10, Zilmer 9-21, Hauser 10-4)  
 11870 SWITZERLAND SBC; \*2100-2130\* EE, DX px, //15430, 15305, 11720, 2215 FF to Afr, alternates with GG and II on other days, good (Brooks, Courtney 9-14)  
 11875 PHILIPPINES VoA; 1605-1630 Lang, nx, tlks, QRM, (Tuchscherer 10-9)  
 11880 MEXICO R Tricolor; 1615, 1800, 2058, 0535 SS, LA mx, ID, tlks, good (many)  
 11880 TURKEY TRT; 1645-1705 TT, mx, 2200-0100 EE, extended sched, nx, mx, fair, (Brooks, Talbot, Earhart 9-28)  
 11885 USA WYFR; 2130 EE, rel px, good (Ebrecht-Morocco)  
 11890NF HOLLAND RN; 1845-1900 AA, ME mx, ID, (Tuchscherer 10-8) Schwartz, Ebrecht  
 11900 S AFRICA RSA; 2130-2150\* EE, 0514, 0615 EE nx, tlks, IDs, (Alder, Wootten, /  
 11905 ITALY RAI; 2215, 0050-0055 EE, mx, ID, nx, good-poor, (Courtney 9-30, Ebrecht-M)  
 11905 GERMANY DW; 0555-0610 EE, mx, nx, ID, fair (Earhart 9-8)  
 11905NF MEXICO R Tricolor; 1345-1405 SS, LA mx, ads, on this freq for a few days then mute on 25m, (Tuchscherer 9-25) Wootten 9-15  
 11914 PERU R Nac; 2155 SS, tlks, positive ID, QRM from RTVI and HCJB \*2200, fair /  
 11915 ECUADOR HCJB; 0045-0130 EE, drama, interview, 0255 DX px, 0415 EE rel px, fair-excellent (Barnes 9-1, Creamer, Ebrecht-Morocco)  
 11915 ROMANIA RB; 0610 EE, cmntry, fair (Ebrecht-Morocco)  
 11920 IVORY COAST RTVI; 2030-2200 FF, jazz, Afro mx, nx, 0625-0655 FF/Vern, mostly tlk, some mx, poor-good (Schwartz, Rippel, Wootten 9-15, Earhart 10-5)  
 11920 PHILIPPINES FEBC; 0915 EE, rel px, fair (Brookwell 9-10)  
 11925 BRAZIL R Bandeirantes; 2204, 2230, PP, sports, ID, mx, fair (Wootten, Zilmer 9-21)  
 11925 ALGERIA RTVA; 0713 AA anmts under VoA, replaced 11810, irr alternate freq, (Willis-Australia 9-15)  
 11925 SPAIN RNE; 1535, 2200\* SS, 0115-0130 EE, IS, ID, mx, nx, tlks, poor-good, (O'Shea 10-3, Barnes 9-1, Brunner, Tobin)  
 11930 CUBA RHC; 0115-0130 EE, nx, tlks, good-excellent (Brunner, Barnes 9-1)  
 11935 BRAZIL R C Paranaense; 2209 ID in PP, nx, tx problems, good (Wootten 9-15)  
 11935RF INDIA AIR; 1315, tennis, //9705, 9535, good (Willis-Australia 9-15)  
 11935 PORTUGAL RP; 0203-0215 EE, ID, tlks on Africa, excellent (Brunner)  
 11935 BELGIUM RTB; 1740 Lang, vocals, (Hauser 9-27)  
 11940NF FRANCE ORTF; 0707, FF anmts, replaces 11930, QRM, good (Willis-Australia 9-25)  
 11940 SINGAPORE RS; 1530-1550 EE, nx, orch mx, many IDs, good (Thompson 9-30)  
 11945 GERMANY (FR) DW; 2300 SS, nx, good (Ebrecht-Morocco)  
 11945 CHINA RP; 1100-1155 RF, ID, jammed, //9480, 11980, (Willis-Australia 9-28)  
 11950 LIBERIA ELWA; 1920 FF, 2045, 2100 EE, rel px, ID, good (Creamer, Earhart 9-24)  
 11953NF ALGERIA RTVA; 0700, AA anmts mixing with BBC, ex 11965, irregular (Willis 9-20)  
 11955 USA VoA Greenville; 0030-0050 PP to Braz, ID, pops in EE, good (Fino)  
 11970 CUBA RHC; 0040-0059 SS, political tlks, ID, fair (Fino 9-29)  
 11980 USSR RP&P; 1450-1459\* EE, tlks and light mx to Asia, (Tuchscherer 10-1)  
 11990 CZECHOSLOVAKIA RP; 1800, 0100-0130 EE, cmntry, (Brunner, Ebrecht-Morocco)  
 11990 CANADA CBC Armed Forces; 2220 EE, to Europe, fair (Ebrecht-Morocco)  
 12005 EGYPT RC; 1915 AA, chants, OM host, //9475, 9850, good (Rippel 9-22)  
 12012h COSTA RICA R Reloj; 2350 SS, tlks, mx, better than fund, good (Zilmer 9-27)  
 12035 N VIETNAM VoV; 1000 EE, //10040, good (Willis-Australia 9-10)  
 12040 USSR R Kiev; 0038 EE, fair but faded after 0045, (Martin 10-5)  
 12050 USSR R Kiev; 0300 EE, 0330\*, good, (Creamer)  
 12060h USA AFRTS Bethany; 0205, baseball, 2 x 6030, (Hauser 10-2)  
 12095 ENGLAND BBC; 1015-1145 EE, interviews, features, nx, fair-poor (Barnes 9-1)  
 12260h USA VoA Bethany; 0200\* EE, 2 x 6130, (Hauser 10-2)  
 14987 N VIETNAM VoV HS; 1100 VV, ID, //6385, 7375, 10064, (Willis-Australia 9-10)  
 15060 CHINA RP; 0115-0130 EE, socialist cmntry, flutter, poor (Barnes 9-4)  
 15060NF USSR RN; 0100 EE, repeat of 17775 at 0000, poor (Martin 10-5)  
 15070 ENGLAND BBC; 1215-1230, 1927 EE, drama, letter box, good (Barnes 9-1, Martin)  
 15080 INDIA AIR Bombay; 1840, sub cont mx, YW anc., poor (Estes 8-12)  
 15095s MEXICO R Tricolor; spur noted here 0025, none on 15125 to match (Hauser 9-20)

- 15095 CHINA RP; 2323-2350 SS, tks, mx, 1000-1030 Malay, then into Indon, fair-good, (Earhart 9-8, O'Shea 10-3, Willis-Australia 9-8, Schwartz 10-5)
- 15105 JAPAN NHK; 2315, 0100-0115 EE, nx, cmntry, ID, fair (Talbot, Thompson 9-17)
- 15105 ASCENSION IS BBC; 1805 EE, WS, nx, sports, //15070, fair (Courtney 9-8)
- 15110 MEXICO R Tricolor; 1415-1635, 2100-0430 SS, mx, ads, IDs, P-G (many)
- 15109NF FRANCE ORTF; 0900 FF, //15135, 15155, (Willis-Australia 9-12)
- 15115 ECUADOR HCJB; 1215-1230 EE, rel drama, good (Barnes 9-1)
- 15120 NIGERIA VoN; 0630 EE, mx, cmntry, fair, (Ebrecht-Morocco)
- 15120 FRANCE ORTF; 1818 FF, tks, interviews, good (Wootten 9-16)
- 15125 MEXICO R Mex; 2200, 0042 SS, tks, mx, (O'Shea 10-4, Tobin)
- 15130 USSR RM; 1130-1150 EE, px on Soviet economy, good (Barnes 9-28)
- 15130 USA WYFR; EE rel px (Meehan 9-9) time?
- 15135 BRAZIL R Record; 2320 PP, tks, mx, poor (Zilmer 9-28)
- 15140 SWITZERLAND SBC; 1315-1345 EE, 1415-1430 FF, tks, ID, mx, nx, good (Talbot, Schwartz 9-21, Cole, O'Shea 10-5)
- 15145 BRAZIL R Jornal do Comercio; 2300, 0035-0045 PP, sports event // R Tupi, poor (Zilmer 9-28, Earhart 10-3)
- 15145 PORTUGAL RFE; 1345 Polish, Church svc, ID, nx, (Brooks)
- 15145 SPAIN RNE; 1255 SS, s/on for "Buenas Dias America" px, good (Trzaskus 10-6)
- 15150NF GERMANY (DR) RBI; 2000 EE, nx, mx, cmntry, Afro Svc, fair (Zilmer 9-28)
- 15150 CHILE VoG; 2345-0110 SS, 2215, 0230 EE, political tks, mx, ID, P-F (many)
- 15150 USSR R S Rodina; 1400 RR, distinctive organ IS, ID, tks, vocals, (Brooks)
- 15155 FRANCE ORTE; 1515-1530 FF, nx, 1030 EE, African nx, interviews re Mozambique, (Tuchscherer 9-19, Brooks)
- 15155 BRAZIL R Tupi; 2250, 2332-2339 PP, ID, tks, ads, mx, (Brookwell, Miller, Cress)
- 15155 S AFRICA RSA; 1815-1830 GG, (Schwartz 9-26)
- 15155 CUBA RHC; VoV px 2105-2130 EE, ID, political tks, mx, good (Fino 9-17)
- 15160 ALGERIA RTVA; 0630 AA, now here ex 15215, (Willis-Australia 9-10)
- 15160 GERMANY (FR) Va Munich; 1500\*, IS, fair (Estes 8-15)
- 15165NF FRANCE ORTF; 0200\* SS, over peking, //15125, (Willis-Australia 9-13) Brunner 9-9)
- 15165 DENMARK RD; 1345\*, 1358-1426 Danish px, several EE IDs, good (Jones 9-14, /
- 15170 GERMANY (DR) RBI; 1852-1855\* EE, ID, tks abt Chile, fair (Schwartz 9-8)
- 15170t TAHITI RT; 0105-0115 FF, cmntry, pops, rather early, fair (Schwartz)
- 15175 NORWAY RN; 1600 EE, nx, features, mx, amnts, Sundays, (Talbot)
- 15185 USA WINB; 1948 carrier, 1954 EE amnt, 2230 EE rel px, (Hauser 10-5, Tobin)
- 15185 FINLAND RF; 2030 EE, letters, cmntry, good (Ebrecht-Morocco)
- 15185 NIGERIA VoN; 0700 EE, "Weekend Magazine", good (Ebrecht-Morocco)
- 15190 ETHIOPIA ETLF; 1515 mx, EE ID at 1543, 1546, 1547 into FarSI, good (Cress 9-25); \*1415 EE, EE ID, poor (Jones 9-14)
- 15190 CONGO RTVC; 1857-1945 FF, ID, nx, Afro mx, 2115-2200 FF/EE translations, fair-good (Cole, Schwartz 9-8, Courtney 9-22)
- 15195 AUSTRALIA RA; 2320 FF, nx, fair, (Ebrecht-Morocco)
- 15195NF AFGHANISTAN R Afghanistan; 1130 EE, nx, EE vocals, tks, local mx, (Brooks)
- 15195 MALAGASY REP RN; 1332 DD, rel px, off 1350, good (Trzaskus 10-6)
- 15205 USA VoA Greenville; 2230 EE, mx, (Talbot)
- 15205NF BELGIUM RTB; 0720 FF ID, replaces 15200, (Willis-Australia 9-14)
- 15215 PORTUGAL RFE; \*1455 Lang, IS, ID as Europa Libre, into mx px, good (Rippel 9-24)
- 15220 NETH ANT RN; 2140-2155, 2240, EE ID, DD tks, nx, cmntry, good (Fino 9-28, Creamer)
- 15220 ETHIOPIA ETLF; 1230 EE ID into lang, QRM, very poor (Perdue 10-5)
- 15245 ZAIRE LV du Zaire; 0500-0800 FF, 1825 PP to Angola, tks, (Schwartz, Willis-A)
- 15245 BRAZIL R Nac; 1900 PP, 2000 GG, no EE at sched 2100, (Brooks)
- 15250 GERMANY (DR) RBI; 2210-2230\* FF, tks, some mx, IS, poor (Earhart 9-14)
- 15250 ROMANIA RB; \*1459-1515 EE, IS, ID, nx, to Asia, fair-good (Miller 9-21, Jones)
- 15260 USSR RM; 1200-1230 EE, mx, cmntry, good (Barnes 9-1)
- 15260 ASCENSION IS BBC; 0025 EE, nx, good (Trzaskus)
- 15265 ECUADOR HCJB; 1500 SS, rel px, mx, good (Wootten 9-6)
- 15270 JAPAN NHK; 2345, 0000-0020 EE, tks, nx, mx, (Talbot, Barnes 9-25, Tobin)
- 15275NF MALTA DW; 1600 GG test px, ex 17875, (Brooks)
- 15285NF INDIA AIR; 1000 EE, tennis, //9590, not 15280, (Willis-Australia 9-20)
- 15285 SRI LANKA VoA; 1519 EE, nx, editorial opinions, poor (Wootten 9-6)
- 15290 SYRIA R Damascus; 0700 AA, ID, sched \*0400-0800\*, (Willis-Australia 9-16)
- 15300NF FRANCE ORTE; playing what sounded like RCI signature tune but ID at 1903, mx px; 0725 FF ID, //15135, 15155, (Willis-Australia 9-28, Hauser)
- 15300 ECUADOR HCJB; \*2200 JJ, 2230 RR, 2300 GG, 2330 JJ, EE IDs, rel px, good (Fino)
- 15305 SWITZERLAND SBC; 0920 EE, Merry-go-round, fair (Ebrecht-Morocco) Schwartz 9-22)
- 15320 AUSTRALIA RA; 0125-0230 EE, drama, nx, tks, fair-good (Barnes 9-2, Thompson, /
- 15325 CANADA RCI; 1351 Ukrainian, choir, 2200 EE nx, cmntry, good (Ebrecht-Morocco, Trzaskus 10-6, Meehan 9-9) (Tuchscherer 10-5)
- 15345 GREECE Athens ERT; 1640-1700 Lang, tks, IS at 1645 and a Lang change, excellent/
- 15350 ASCENSION IS VoA; 1201 SS, nx, good (Miller 9-22)
- 15365NF ALGERIA RTVA; 0700 AA amnts, ex 6145, good, (Willis-Australia 9-29)
- 15380 RWANDA DW Kigali; \*2030 FF ID for relay into GG DW ID and px, 2130-2145 GG tks, mx, ID, good (Agner 9-25, Fino 9-27)
- 15385 CHINA RP; 0310-0330 EE, nx, cmntry, good (Thompson 9-25)
- 15390 VENEZUELA R Nac; 2220-2230 EE ID, tks, address, weak, (Courtney 10-2)

- 15390NF ECUADOR HCJB; 2330GG to JJ, rel px, not listed in sched, poor (Brookwell 9-16)  
 15400 ASCENSION IS BBC; 1200-1215 EE, radio drama, to Africa, fair (Barnes 9-1)  
 15405 USSR R Yerevan; 0325 EE, fair (Creamer)  
 15415 KUWAIT RK; 1720-1747 EE, nx, wx, good (Brunner, Hauser 10-10, Schwartz 9-8)  
 15415NF ISRAEL IBA; 1655 IS, 1700 s/on in HH, mix with Kuwait canceled each other, fair signal strength for both (Cress 9-30). Jamming?  
 15425NF SRI LANKA SLBC; 1505-1525 EE, YW DJ, pop and country mx, ID, F-G (Perdue 9-24)  
 15430 SWITZERLAND SBC; 1600-1630 GG, ID, fair (Schwartz 9-2)  
 15440 PHILIPPINES FEBC; 2330 EE, nx, cmtry, mx, poor (Zilmer)  
 15445 JAPAN NHK; 0000-0030 EE, tlk abt Japan, poor-fair (Barnes 9-25)  
 15481 CLAND (ROMANIA) R Portugal Livre; 1910 irregular in PP, brief mx, (Hauser 9-28)  
 15490 ISRAEL IBA; \*1900-1945\* EE, nx, cmtry, ID, 2115 FF ID, nx, fair-good (Cole, Schwartz reports //11700, 12025 and 9815 at 1900)  
 15500 CHINA RP; 1330-1355\* Lang, CC mx, flutter, fair (Cress 9-25)  
 15510 CHINA RP; \*0000-0030 EE, nx, cmtry, mx, poor (Barnes 9-25)  
 15512 CHINA RP; 1230 EE, cmtry by M&W, fair, (Perdue 9-29) Zilmer 10-6  
 15520 PAKISTAN R Pakistan; 1300 EE nx, //17845; 1500 Lang, ID, nx, poor (Rippel 9-24/  
 17673 CHINA RP; 0010-0025 EE, nx, cmtry, fair-excellent (Trazsank 10-1, Brunner repts that 11685 will replace this freq Nov-Apr, Martin 10-5)  
 17700 GERMANY (DR) RBT; 1405-1409 EE, nx, ID, fair (O'Shea 10-4)  
 17700vNF PAKISTAN R Pakistan; 0950 Urdu, //15323, drifts up 3 kHz, (Willis-Australia 9-12)  
 17710 SWEDEN RS; 1410-1414 EE, good, sports roundup, (O'Shea 10-4)  
 17710 USA VoA Bethany; 2053 EE, tlk px, to Africa, fair (Wootten 9-13)  
 17720 ECUADOR HCJB; 2056 SS, mx px to SA, good (Wootten 9-13)  
 17720 TAIWAN VoFC; 0900 CC, under USSR EE svc, unlisted, (Willis-Australia 9-15)  
 17735 CUBA RHC; 1245 SS, 2058 AA, nx, tlks, mx, ID, fair-good (Courtney 9-19, Wootten)  
 17755 USA WYFR; 2104 EE, nx, ID, rel px, fair (Wootten 9-13)  
 17755 ITALY RAI; 1357 IS, 1402 s/on to Canada in FF, good (Cress 9-25)  
 17770 ITALY RAI; 1358-1403 IS then ID in II, good, (O'Shea 10-4)  
 17770 N ZEALAND RNZ; 0115 EE, ID, nx, fair (Creamer)  
 17775 LIBERIA VoA Monrovia; 2109 FF, to Africa w/nx, good (Wootten 9-13)  
 17775 USSR R Kiev; 0030 EE, very poor (Martin 10-5)  
 17775NF BELGIUM RTB; 0735\* FF, amnts, ex 17780, under RM, (Willis-Australia 9-14)  
 17780 S AFRICA RSA; 1850\* GG, (J. Davis)  
 17785 MONGOLIA RUB; \*1220-1252\* EE, regular for 6 mo., annces 17820 but not there, (Willis-Australia 9-27, at least one NA DXer repts no reception inspite of tries)  
 17785 USA VoA Greenville; 2111 EE, to Eu, good (Wootten 9-13)  
 17790 ENGLAND BBC; 1200-1215 EE, radio drama, fair (Barnes 9-1)  
 17791 UNID; 1315 AA hetting BBC, poor, no IDs noted, perhaps Algeria, variable, (Hauser)  
 17795 AUSTRALIA RA; \*0100-0145 EE to NA, pops, fair-good, (Barnes 9-5)  
 17800 USA VoA Bethany 2113 FF nx, good (Wootten 9-13); ENGLAND VoA Woolferton; 1235 FF, LP/SP echo, good (Hauser 10-7)  
 17810 HOLLAND RN; 2115 DD, mx and tlks on classical mx, good (Wootten 9-13)  
 17810t MALACASY REP RN; 0935, only signal on band, weak, sounded Indon, (Hauser 9-24)  
 17815 USSR RP&P; 1358\* EE, unlisted, ann next tx at 1430, (Hauser)  
 17720 FRANCE ORTF; 1040 EE, Paris calling Africa, good (Ebrecht-Morocco)  
 17825RF GERMANY (FR) DW; JJ at 1120-1150, //17845, (Willis-Australia 9-27)  
 17825 BULGARIA RS; 2116 EE, nx, cmtry, to Africa, fair (Wootten 9-13)  
 17830 GERMANY (FR) DW; 1400 GG, nx, mx, (Brooks)  
 17830 SWITZERLAND SBC; 1551-1554 EE, nx, fair (O'Shea 10-7)  
 17830 ASCENSION IS VoA; 1335 SS, fair (Hauser 10-3)  
 17830 NETH ANT RN; 2119 FF, excellent (Wootten 9-13)  
 17835 PORTUGAL RFE; 1415 Czech, cmtry, rock mx, (Brooks) (Brooks)  
 17840 ASCENSION IS BBC; 1545-1550 EE, tlk on US, fair (O'Shea 10-7); \*1430 EE WS,/  
 17840NF ROMANIA RB; 1220\* EE, amnts //9570, 15250, (Willis-Australia 9-14)  
 17840 CZECHOSLOVAKIA RP; 1800-1812 EE, nx, cmtry, (Tuchscherer 9-30)  
 17845 PAKISTAN R Pakistan; 1300 EE, nx, cmtry, //9690, poor (Zilmer 10-5)  
 17850 USA WYFR; 1808 EE, rel px, fair (Martin 10-5)  
 17860NF SAUDI ARABIA BSKSA; 1008 AA amnts, weak (Willis-Australia 9-12)  
 17870 AUSTRALIA RA; 0145-0200 EE, nx, songs by man, fair, (Thompson 9-26)  
 17870 LIBERIA VoA Monrovia; 2122 EE, tlks on India/US relations, good (Wootten 9-13)  
 17875 MALTA DW; 1600, 1730-1750 GG, IDs sports px, (Brooks, Schwartz)  
 17875 GERMANY (FR) DW; 1200-1245\* EE, nx, features, to Africa, fair (Barnes 9-1)  
 17880 ECUADOR HCJB; 1430, 1538 EE rel px, poor-good (Camilli, O'Shea 10-7)  
 17880 PORTUGAL R Nac; 2128 PP, tlks, then mx px, good (Wootten 9-13)  
 17900 VATICAN VR; \*1740 Lang, tlk, (Zilmer 9-30)  
 17900 USSR (Far East) R Yerevan px; 0322 EE, //15180, Armenian also hrd, (Hauser 10/9)  
 17915 PAKISTAN R Pakistan; 1000 EE nx, cmtry, good (Ebrecht-Morocco)  
 18080 ENGLAND BBC; 1600 Hindi Eastern Service, good (Cress 10-4)  
 21460 BELGIUM RTB; 1515 FF, fair (Hauser 10-9)  
 21470 ENGLAND BBC; 1400 EE WS, good (Hauser 10-5)  
 21480 MALACASY REP RN; 1350\* Indon, (Hauser 10-5)  
 21485 USA VoA Bethany; 1830, 1745 EE, Dateline, LP echo, good (Ebrecht-Morocco, Hauser)  
 21495 PORTUGAL RP; 1748-1803 PP, 1803-1830\* EE, nx, mx, chimes/NA at s/off, (Hauser)  
 21500 USA VoA Greenville; \*1400 CC, (Hauser 10-5)

- 21520 S AFRICA RSA; 1115 EE, "Groovy Tunes" good (Ebrecht-Morocco)  
 21520 SWITZERLAND SBC; \*1415, IS, ID in EE, px to India, good (Agner); 1530-1545 EE  
 nx, tlk to Africa, 1755 AA with Swiss mx, good (Thompson 10-4, Hauser)  
 21530 ENGLAND BBC; 1325 IS, not on drums, 1329 RR, (Hauser 10-11)  
 21545 GHANA RG; 1425-1440\* PP, 1503-1515 EE, nx, tlks, ID, (Earhart, Tobin, Hauser)  
 21550 ENGLAND BBC; 1500 EE African alternative, 1530 Swahili (Hauser 10-5)  
 21570 HOLLAND RN; 1530 DD, (Hauser 10-5) (Hauser 10-7)  
 21580 FRANCE ORTF; 1550-1750\* FF, some EE amts, sometimes //21620, 21675, strong /  
 21600 GERMANY (FR) DW; 1400 GG, ID, (Hauser)  
 21610 LIBERIA VoA Monrovia; 1600-1620 EE, nx, Afro mx, ID, to Africa (Thompson 9-14)  
 21610 HOLLAND RN; \*1600 DD to NA, Sat. only, strong (Hauser)  
 21610 ENGLAND BBC; 1400 EE WS (Hauser 10-5)  
 21620 FRANCE ORTF; 1400 FF, very strong many mornings (Hauser) (Hauser 10-8)  
 21635 SAUDI ARABIA BSKSA; 1528 AA ID for Riyadh, ancient and modern mx, 1601\*, /  
 21640 HOLLAND RN; \*1600 DD, Sat only, //21610 but this to Africa, (Hauser)  
 21640 ENGLAND BBC; 1313 FF, Fijian mx, ID, nx, PP noted at 1425, (Hauser 10-11)  
 21655 NORWAY RN; 1753 NN, some days good, other days absent, (Hauser 10-7)  
 21670 CZECHOSLOVAKIA RP; 1605 EE, cmntry on DDR 25th Aniv., 1730 repeat, (Hauser 10-8)  
 21680 AUSTRIA ORF; 0835 EE, mx, cmntry, good (Ebrecht-Morocco)  
 21685 KUWAIT RK; 1335 AA, ID, poor, weaker than Saudi, (Hauser 10-11)  
 21700 PORTUGAL R Nac; 1700 PP, fair (Hauser) Antenna/tx change (Hauser 10-5)  
 21710 ENGLAND BBC; EE WS at 1515, strong until this time when gets weaker due to/  
 21711.5NF ALGERIA RTVA; 1700-1900 FF; 1900-1915 EE, ID as Radio Algiers External Service,  
 Hets BCC, AA vocals and western pops, nx, AA/FF lang lessons, tx troubles,  
 new service since 10-8 at least. (Hauser, Cress)  
 21735 PORTUGAL R Nac; 1400 //21700, poor at times (Hauser 10-5)

Mike Agner, Waldwick NJ, SX110; William C. Alder, San Antonio TX, SPR-4; William D. Barnes, Colchester VT, HA600A; Lawson Booker, Columbus OH, R4B; A. W. Brooks, Oakdale CT, DX150A; Larry Brookwell, Chapala, Jal., MEXICO, R4B; Charles H. Brunner, Jr., Salford PA, D7000Y; Jim Camill, Cherry Hill NJ, GE port; J. Cole, Denver CO, SW4A; Allan L. Courtney, Lexington KY, SX-190; John W. Creamer, Denver CO; Hadley Cress, Harrisonburg VA, R4C; Jim Davis, Travis AFB CA; Kenneth Earhart, Allentown, PA, SX-190; James Ebrecht, Morocco, Zenith TO; Steve Estes, Newport News VA, SX190; Henry E. Fino, Rochester NY, 1936 RCA; John C. Gendron, Arlington VA, SX-190; Glenn Hauser, Enid OK, HQ160; Jack R. Jones, Jackson MS; Ed Martin, Providence RI, XCR30; Jim Meehan, Berkeley CA, SX190; A. A. Miller, Youngstown OH; O'Shea, Buffalo NY; Neal Perdue, Millington TN, SW4A, HA600A; Chuck Rippel, Virginia Beach VA; Richard Schwartz, Dover DE; Edward Shaw, Norfolk VA, SX190; Larry Talbot, Menomonee Falls WI, SB313; Glenn L. Thompson, Deming NM, HQ145A; Pat Tobin, McDonald PA, DX160; Rosemary Trzaskus, Chicago IL, S125; John Tuchscherer, Neenah WI, HQ180A; Michael Willis, Hampton, Victoria, Australia, Trio 9R59De; Charles A. Wootten, Bethesda MD, R390, GR78, Zenith TO; Robert Ziimer, Milwaukee WI, SPR-4.

Thanks to all who contributed. We had more reports for frequencies above 17 mhz than usual, which will help the reader keep track of who is using these frequencies.

Lots of solar activity the past month. The solar flux reached a peak value of 147 on October 12, the highest reading in over a year. This occurred at a time when the general solar activity is predicted to decline. Geomagnetic quiet was noted October 3 through October 8 and geomagnetic disturbances on October 10, 13, and 17. The period between the September and October solar activity peaks and the major geomagnetic disturbances was 27 days. A 500 flux solar flare was reported at 0330 on October 11.

Predicting the sun is a little like trying to predict the weather after Ground Hog Day, but here goes. The bottom of the solar activity cycle will be reached about October 22 and the next peak about November 8. Another peak will be about December 4. General geomagnetic quiet will reign from about November 1 to 8, with another major disturbance occurring a couple of days after the next peak in solar activity.

There have been several good openings to the south here during periods of geomagnetic disturbance. Keep track of the solar activity and have a good DX season.

73 from

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Address Correction Requested

NASWA's FLASHSHEET is compiled twice monthly and mailed separate from FRENEX. FLASHSHEET EDITOR is AL NIBLACK, 420 SHELBY STREET, VINCENNES, IND. 47591. All reports for FLASHSHEET go directly to Al, not to HDQ.

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