

# F R E N D X

The SHORT WAVE BROADCAST Journal - Since 1962

**NORTH AMERICAN SHORTWAVE ASSOCIATION**

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**VOICE OF AMERICA RELAY STATION - MONROVIA, LIBERIA**

## THE LOUNDENBOOMER REPORT

I'd just feed a crisp, white sheet of paper into the typewriter and began typing my report to Radio Pago Pago when Mr. Clean walked in.

Mr. Clean, in real life my neighbor Bruce, is a decent enough chap, but one of those people with a cause. More often than not, Bruce's causes cause me king-size headaches. This was no exception. His current cause is ecology.

Don't get me wrong, I'm for a clean environment as much as the next guy..as long as the next guy isn't Bruce!

Well, he hadn't been in the room ten seconds when he caught sight of the paper in my typewriter.

"What's with you, Charlie?" he shrieked. "You hat the world, maybe? You hate trees?"

Puzzled, I replied that the world was ok in my book and that I'd always appreciated a well-turned limb.

"But look at that paper," he shrilled, "It's white! Don't you know that 80 billion trees are callously hacked down each year to make pretty white paper like that?"

I hadn't, as a matter of fact, but it didn't surprise me that Bruce knew. And in the face of his outrage, I agreed to buy a ream of recycled paper the next day at the Ecological Stationery Store.

I didn't mind too much that the paper I bought cost me \$6, or that its dingy grey color made for poor contrast with the letters typed with my well-worn ribbon. I felt I was doing my part for ecology.

That afternoon I was in my backyard, proudly surveying my antenna farm, the result of many hours of stringing wires in all directions from my house.

Bruce leaned over the back fence and said, "Oh, by the way, I've been meaning to talk to you about those antennas."

"Neat, aren't they?" I chortled joyfully.

"But Charlie," Bruce said accusingly, "they're copper, right? Over a period of months, copper particles from that wire will fall to the ground all over your yard. The first rain will was them into the storm sewer system. From there they'll be carried to Hoogoosick Creek and, ultimately, to the city reservoir. Good grief, do you want to poison the town?"

Not wanting to face an angry lynch mob marching up Elm Street, I ripped down the offending wires and reverted to using an 18-inch whip as an antenna.

I couldn't hear much with the whip, but I was doing my part, so I didn't mind it too much that the only station I could hear was Radio RSA. In fact, even Bruce, when he stopped by, enjoyed the melodious guitar chords and bird call interval signal..that is until he learned the station's location.

With scorn in his voice he suggested I tune a station which more accurately reflected the spirit and aspirations of the emerging nations of Africa. But I was unable to convince him that one can't hear the 250 watt Revolutionary Voice of The People's Republic of Hitari on an 18-inch whip.

But, little matter, since he was off on a new theme, thermal polution. The 18 tubes in my receiver, his ecological handbook had told him, created heat. My rig, it seemed, added to the overall increase in world temperature, contributing to the destruction of nature's climatic balance.

To play it cool, I switched on my transistorized set instead, but even that didn't mollify him.

"Uses electricity, no? And electricity is produced by generators driven by the burning of hydrocarbon fuels, in this case, coal. Burning coal produces all sorts of noxious fumes and sulfur dioxide. Charlie, Charlie, will you never concern yourself with ecology?"

Well, Bruce left a little while ago. He had to hurry to a meeting of the Save the Wildebeast League, and then to a gathering of the Ad Hoc Committee to Ban Colored Bathroom Tissue.

So here I sit, my equipment all shut down, a guttering candle flame casting shadows on the wall, pondering his parting words.

"You know, Charlie, my life is so hectic these days, I really envy you the simple pleasures of just sitting there and enjoying your little hobby!"



# HEADQUARTERS CALLING

NASWA, P.O. Box 8452, S. Charleston, W. Va. 25303 USA

**HELPING HAND** Wanted...matching speaker for HQ180. State Price. Larry Yamron, 6830 Linden Lane, Pittsburgh, PA 15208

Errol Urbelis, 60 Blvd, Greenlawn, NY, 11740, has some HI2-SWL cards available for swap. (We don't normally run card-swap info, and this is a unique exception.)

For Sale...Zenith R-7000 T/O receiver (portable). Top condition. Great for upcoming summer months for traveling. Write Dave Megyesy, 428 Ewingville Rd., Trenton, NJ 08638 for details.

For Sale...Leap antenna for SW4 or SPR4, complete with assembly instructions and Allen wrench - \$11.00. ...Also, 28.0 & 28.5 Xtals for SW4 (can be used also in SPR4 & R4B with appropriate corrections for dial readings), \$2 each. Postage & insurance included. Write Ed Ricchezza, #201 So. 18th St., Apt 1215, Philadelphia, PA 19103.

Mark Lucas, 724 E. Mulberry, Lancaster, Ohio, 43130, would like to hear from Columbus, Ohio, area DXers.

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**THE ART OF VERIFYING**

A few years ago NASWA's QSL REPORT editor wrote a series of articles on "The Art of Verifying". The series proved extremely popular and useful. So much so that it has now been reprinted. In its reprinted form it is 8 pages of the real lowdown on the techniques many have used to obtain QSLs from stations around the world. It's printed by mimeograph, on 8 1/2 x 11 paper, for insertion in a 3-ring binder. Cost is \$1.00 postpaid. Order from HDQ.

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**BC-221 FREQUENCY METER** Another new reprint is an article on the BC221 Frequency Meter, written a while back by Al Niblack. Mimeo, 8 1/2 x 11, 2 pages, 25¢ from HDQ.

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Other items available from HDQ...7 1/4 page bk, THE BEST OF LOUDENBOOMER, \$2.50... NASWA rubber stamp, \$2.00...QSL Verification Signatures booklet, \$1.00...90 meter band survey, \$1.50...Reprint of BROADCASTING IN PERU, 3 page article, 25¢...Reprint of EXALTED CARRIER AM RECEPTION, 1 page article, 25¢...NASWA cloth jacket emblem, 3 inch diameter, green & gold on black, \$2.50 or 2/\$4.50...Order from HDQ address above.

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**THE FLASHSHEET**...It is proving impractical for the Log Report to be distributed from Charleston to the editors. Consequently, we are looking for someone to serve as "distributing editor" for the LR. Also, the FLASHSHEET, beginning with the regular March issue, with the March FRENDEX, will again be edited by Al Niblack, 420 Shelby Street, Vincennes, Indiana 47591. Al's deadline will be the 26th of the month. The FS will go out attached to the regular FRENDEX. Additionally, Al will be compiling the mid-month FLASHSHEET, which will be mailed only to those who send an envelope (with postage attached) to receive it. The envelope may be sent either with a report to the Flashsheet, or it may be included with a report to the Log Report. But only those sending SASE's will receive a copy of the mid-month FLASHSHEET. Al's deadline on the mid-month FLASHSHEET will be the 15th. Members are urged to send flash items directly to Al Niblack, 420 Shelby Street, Vincennes, Indiana 47591. Late items can be telephoned directly to Al at 882-3976 after 2200 GMT....Only flash-type items will be included in the flashsheets.....Until further notice, reports for the LOG REPORT should continue to be sent to NASWA HDQ, P.O. Box 8452, S. Charleston, W. Va. 25303

# MAIL CALL

LETTERS FROM MEMBERS WITH PROBLEMS

Edward C. Shaw  
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Norfolk, Virginia 23505

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By the time this February issue has reached you, the DX season will have begun its decline. Keep those receivers warmed up, though, as there are still several weeks of low frequency DXing yet available. The past few months have netted me several new countries and several new regular correspondents to Mail Call. Your cards and letters are welcomed. Each will be answered promptly, and those with wide member appeal may be used for this section each month. Please enclose a stamp for replies.  
\*\*\*\*\*

Dear Ed: Why can't I receive more of the countries listed by others in Log Report each month? My Galaxy and Drake and Allied receivers are considered tops, but I can not seem to hear most of the countries I try for. Also, how can a receiver distinguish between stations only a few kHz apart?

Answer: Bernard, your receivers will produce the DX you desire - by tuning the stations when they are available. Your location is a vital consideration, too. What a listener in Virginia hears may not always be audible in Ohio. Your desire to hear India on 15235 at 1300 baffles me. The only AIR recently reported there was back in October, and that was near the sign-off time of O115 GMT. The only other time AIR is on the frequency is for its Burma service between 1115-1215 GMT. The ability to separate Zaire on 15,246.2 kHz and Sweden on 15,245 is easily within the capability of the SX-190. Neither station is being beamed to the U.S., and so are at relatively low levels at the time in question (c. 1800 GMT). It takes some practice to really and positively distinguish close stations such as these, but it can be done.  
\*\*\*\*\*

Dear Ed: Can you tell me exactly what are Point-to-point stations? Why can't we count such stations as Iceland? Will they verify?

Answer: NASWA specifies SWBC for public audiences at large. At present, Iceland maintains they are utility, admittedly with music and news as an incidental adjunct to their main function. Many utilities do verify, and I am happy to refer interested parties to Paul Mayo, a SPEEDX expert in the field to whom I turned for the following concise explanation. Paul's address is 2409 Ocean Parkway, Brooklyn, NY 11235. A PTP station is one that is permanently at one location broadcasting to another fixed point station. Most PTP operators are commercial radiotelephone companies. Although the trend is toward satellites, most overseas phone traffic occurs on the circuits of these companies. What is generally heard is called a 'voice mirror'; a tape for identification used for aligning the station's receivers. Besides the commercial use, many military stations and aeronautical stations operate in a similar manner. PTP DXing should not be confused with Utility DXing. Utility DXing consists of all non-broadcast DX, encompassing PTP, Coastal (maritime), ships, mobile military and aeronautical, and VHF DXing.  
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Dear Ed: I use a tape recorder with my receiver, but often get an echo on my tape shortly before the louder actual recorded voice or music begins. What causes this?

Answer: Harold, you are trying to put high speaker voltage into your recorder's mike input. This is damaging to your recorder. Use your recorder's auxiliary input, or a telephone pickup coil attached to an earphone. The problem is caused by too high a recording level resulting in "print through". This is simply because the oxide surface of your tape was so excessively magnetized by the high input that it also magnetized the tape layers above and below it with an identical signal pattern as it wound onto the take-up reel. Lower your receiver volume considerably when recording and the problem will vanish.  
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And, a big thanks to those who write regularly. Hope to hear from a few more during next month. Until next time, a big 73....

Uncle Ed

# HARMONIC HUNTING

with  
HAUSER

EDITOR:

Glenn Hauser

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Von Ormy TX 78073

## Some Questions

1. Will stations QSL harmonics? 2. I'm a shortwave DXer! Why should I bother with these mediumwave stations? 3. All I seem to hear on 2-3 MHz are images from all my local MW stations. 4. Is there a table of which MW frequencies appear on which harmonics? Read on!

1. Some will QSL, but getting a valid verbe for a harmonic may be more of a challenge. Many stations will not believe--or at least not admit--that their harmonics are getting out! However, I now believe that DXers should not send reception reports for harmonics, as this may well result in the station taking steps to eliminate the harmonic--and with it, our DX fun! If you can't enjoy DXing without always trying for a QSL, we suggest you stick to conventional fundamental DXing. Of course, large ISWBC outlets commonly well-heard on their fundamentals are an exception to this.

2. You also sound like a shortwave chauvinist, hi. Why this antipathy toward MW? Broadcasting is broadcasting, and especially in Latin America there is absolutely no difference between the type of programming on MW and on SW stations. If it's due to your lack of a good MW receiver, so what? DXing MW harmonics will give you the opportunity to do "MW" stations on shortwave! Don't fight it, join it!

3. Metro-area DXers must cope with local QRM; it should diminish greatly at night when those stations remaining on the air often go directional and cut their power. You can work up a list of frequencies to be avoided in your search for DX harmonics. Most of this local QRM is easily explained by three formulas:

$nA$  (pure harmonics, which may or may not be receiver-generated; e.g.  $3 \times 990 = 2970$ )  
 $A + B$  (sum of two frequencies; e.g.  $990 + 1340 = 2330$ ; you may hear audio from both)  
 $2A - B$  ('leapfrog' or mirror image; e.g.  $2 \times 1340 - 990 = 1690$ ; audio may also mix)

where A is the frequency of any local station, and B that of any other. Do this for all combinations of powerful local signals; rearrange by frequency (many will fall within the MW band) Any time A or B is off the air, the mixing product will disappear

4. No, but it would be simple, if tedious, to construct such a table. Once you spot a potential DX harmonic and measure its frequency, some mathematical shortcuts may help you avoid a lot of long division to determine the likely fundamental(s). Even in Latin America, the great majority of MW stations operate on frequencies which are multiples of 10. Therefore any 2 MHz frequency which is a multiple of 10 but not of 20 is much less likely to bear a harmonic (that is, 'odd' frequencies like 2410, 2430, 2450, 2470, 2490). But then a few third harmonics make it along with the preponderance of seconds. It's easy to tell if any given frequency is 'evenly' divisible by 3--just add the digits and see if their sum is a multiple of 3. For example, take 2310:  $2 + 3 + 1 + 0 = 6$ , so it is likely a third, while 2330,  $2 + 3 + 3 + 0 = 8$ , is not likely to be either a second or a third. 770 is the likely fundamental of 2310, but in this case a 'split' drifter,  $2 \times 1155$ , is actually being heard on 2310.

late harmonic DX observed by the editor:

- 1700 GUATEMALA TGX R. Giro's, Guatemala, 2x850, 1/18 0610-0708+, Guat ads ment "zona 9" (dead giveaway for Guat. City), birthday greetings; squeezed by "FRS"-1698  
2620 MEXICO XEHP R. Alegria, Torreón Coah, 2x1310, 1/20 1244-1313 local ads, mx  
2679 MEXICO This stn is XEBSL, Canal 134, San Luis Potosí, 2x1339½, often w/good reception here, e.g. 1/14 0035; 1/16 0333; 1/20 1316-1400, local ads, mx  
2940 USA Please be sure to check for KLGL, Lake Charles LA, 2 x 1470 during their NNRC DX test, scheduled for Sat. Feb. 24, \*0800; has put out harmonic before.  
3080 COLOMBIA HJHD La Voz del Petróleo, Barrancabermeja, 2x1540, 1/18 0245 SS ball game; 0411 slogan ID, chimes, plug RCN, 0412 NA and off; some distortion; fair  
4400 GUATEMALA TGJ R. Nuevo Mundo, 5x880 (cf 6159, x7--multiple harmonics often favor all-odd or all-even), 1/18 0259-0400 extremely wk, distorted; 1/20 1236

Until the next, 73, Glenn



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

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

Thanks to this month's contributors, particularly Miss Diane Levesque of Marion IL who is responsible for the above cartoon.

As we all gratefully heard Tuesday night, January 23, the U.S. role in the Vietnam war is due to begin termination effective Saturday, January 27, with the signing of a cease-fire agreement. As Indochina is a hotbed of clandestine radio activity, much of it U.S. sponsored, we will cover this month the best-known revolutionary station in the area, the Provisional Revolutionary Government of South Vietnam's "Liberation Radio". Your attention is also called to the reply from Samdech Norodom Sihanouk to Jeff Bell concerning the "Voice of Malayan Revolution" in the NEWSLETTER section.

STATION OF THE MONTH

LIBERATION RADIO

Liberation Radio, currently the official station of the Provisional Revolutionary Government of South Vietnam, began operation in the 1960's as the "Voice of the National Liberation Front of South Vietnam". Its transmitters were of modest power and were aimed primarily at a domestic audience.

As the war activity increased, however, the Chinese gave the NLF/SVN several more powerful transmitters, which allowed domestic programming to be improved upon and a foreign service -- beamed to Southeast Asia and Europe -- to be instituted. When the NLF changed its name to the PRG/SVN, the station name "Liberation Radio" was adopted, i.e. on June 10, 1969.

Well-informed sources have in the past placed transmitter sites in both Cambodia and South Vietnam, but recent activity strongly suggests that the location is now solely in North Vietnam as part of the Voice of Vietnam complex. This was more clearly confirmed when on December 19, 1972, U.S. B-52 bombers carpet-bombed off the air much of the Liberation Radio and Voice of Vietnam facilities at the same time. The Voice of Vietnam, of course, is the official North Vietnamese radio outlet at the national level, and is sometimes termed in the lay press "Radio Hanoi".

That the U.S. would wait until nearly the very end of its involvement in the Vietnam conflict to effectively attack these stations may indicate that this was an attempt to stack the propaganda-war deck as strongly as possible in favor of the Saigon government as part of the Vietnamization program. It is possible, for example, to recall how American-inspired propaganda was used after the signing of the Geneva accords in 1954 to promote fear among certain elements of the Vietnamese population in Vietminh-held territory; that this propaganda was highly effective was evidenced by the southern migration of many "refugees" who later indicated they were persuaded to flee by the information originally generated by the propaganda campaign. While there is no evidence to suggest another such campaign is in the offing, it may interest listeners to keep a lookout for stations that may appear anew as part of a Saigon campaign along these lines, especially while Liberation Radio and the Voice of Vietnam are still crippled from the U.S. attacks.

As of the moment, the only Liberation Radio transmitters that appear to be operative are those usually used for the home service on 7416 and 10220v kHz. However, the latter appears to be Liberation Radio's most powerful transmitter, which may account for their adding a Foreign Service transmission over these facilities, namely in English, likely to GI's, from 2030-2045 GMT. Recent monitoring here suggests that they may be running at reduced power over

these remaining transmitters, so possibly reception at the moment may not be easy outside Southeast Asia. Normally, though, the HS transmitters are easily heard in North America during the morning opening to Asia, and in other parts of the world even more readily. Ironically, the Foreign Service facilities appear to be considerably weaker and were difficult to monitor in ECNA before the US bombing raids. Possibly the destroyed or damaged transmitters will eventually be replaced with more powerful ones, who knows?

Liberation Radio is jammed in certain of its Southeast Asian services, but the main source of interference is usually from utility stations. Since the 10220 outlet drifts rather frequently, it is often clear one day and buried under a utility outlet the next.

The PRG has, of late, verified several reports from European listeners and a few from North America from its Paris headquarters. If North American listeners have trouble receiving verifications for reports sent in French or Vietnamese, they should try using a European friend's address for the return portion. After all, what better excuse to renew that acquaintance with the chick/guy on the beach at St. Tropez last summer? The PRG's address is: Bureau d'Information du Gouvernement Revolutionnaire Provisoire de la Republique du Sud-Viet Nam, 39 Avenue Georges Mandel, 75-Paris (16), France. Elitists may contact Henry Kissinger.

The numerous IDs for Liberation radio are listed in How to Listen to the World-1973. The main Vietnamese-language ID begins, "Day la Dal Phat Thanh Giai-Phong...". The station signs on with the anthem, "Liberation of the South", but signs off with no fanfare. The Home Service IDs in Vietnamese are often quite elaborate and musical.

The current schedule of the Home Service transmitters is likely 2200-0030 & 0700-1700 in Vietnamese and 2030-2045 in English on 7416 & 10220v kHz. Until December 19, 1972, the Foreign Service Schedule was:

2200-2230	English to GI's	7470v, 10010v
2230-2300	Khmer	" "
2300-2330	French	" "
2330-2400	English to GI's	" "
0430-0500	Laotian	7470v (7490v alt.), 10010v (9920v alt.)
0500-0615	Khmer	" " " "
0930-1000	Khmer	" " " "
1000-1030	Chinese	" " " "
1030-1045	English to GI's	" " " "
1300-1330	Vietnamese (Irr.)	" "
1330-1400	Khmer	7470v, 10010v
1400-1430	French	" "
1430-1500	English to GI's	" "
1500-1530	Laotian	" "

While the preceding are beamed to Indochina, the following are beamed to Europe:

1900-2000	Vietnamese	7470v#, 10010v, 12110v, 14990v*
2000-2030	French	" " " "
2030-2100	Vietnamese	" " " "

#winter frequency \*summer frequency

If any of you, particularly in Asia or the Pacific, should have fresh information on Liberation Radio as a result of your loggings, please let me know. Finally, for students of Vietnamese affairs, the PRG/SVN publishes a newspaper in English called South Viet Nam In Struggle.

Special thanks to Bob Bundy and the BBC Monitoring Service for helping provide recent information on Liberation Radio!

#### NEWSLETTER

A new or reactivated station, likely a black clandestine station located in the Soviet Union, is noted on 7520, the old "Fighters" clandestine frequency, as follows: \*1000-1010\*, \*1045-1055\*, \*1100-1110\*, \*1115-1125\*, \*1130-1140\*, \*1145-1155\*, \*1245-1255\*, \*1300-1310\*, \*1415-1425\*, sometimes jammed and suffering from co-channel interference from Radio Peking's First Chinese Home Service from 1100 onwards; s/on with Chinese vocals and s/off with the "Internationale", but ID seems different from old "Fighters" station (Bob Bundy, Caroline Islands) Fighters ID in Standard Chinese was, "Tongzhimen, women woo chandoushi" ("Comrades, we are fighters") and s/on/off both with the Internationales (Ed.)... Voice of Pathet Lao was inactive for a week on 6199 and has reappeared since December 31, 1972, on the adjusted frequency of 6203 (Bundy)...4563 outlet for Voice of the Revolutionary Party for Reunification is currently inactive (Bundy) Was 1200-1400 in Korean on 1137 MW, 4563; is 1137 also inactive? (Ed.)...The

7020v outlet of the Voice of the National United Front of Kampuchea, the Sihanouk station, is currently inactive, is this particular transmitter located in North Vietnam? (Bundy) It is believed to be located in either Stung Treng or Kratie, Cambodia, Bob, although the 4675 and 9988v outlets are understood to be part of the Voice of Vietnam's operation; possibly U.S. bombers have been instructed to attack all anti-U.S. broadcasting facilities? (Ed)...Amilcar Cabral, head of the politically-moderate "Mozambique Liberation Front" (FRELIMO), was assassinated in Conakry January 20; there is no obvious successor; FRELIMO broadcasts a revolutionary program over the facilities of Radio Tanzania 0515-0530 Sundays on 6105 and 1840-1900 daily on 15435 (AP)...The Voice of Palestine outlet located in Dar'a, Syria, is now scheduled 0430-0530 and 1300-1400 on 928 MW (BBC MS)...Radio 88, a Swedish pirate, has been reactivated on FM-VHF, using a transmitter fitted into an attache case allegedly audible for up to 50 miles; its aim is to force Swedish authorities to "free radio completely" (Queen's University newspaper via John Campbell, Belfast, Northern Ireland)...Gnomes of Ulster (cf. earlier Log Reports and QSL Report) is inactive as a faction of the Ulster Volunteer Force ripped off the Gnomes transmitter in September of 1972; the UVF used the stolen transmitter on 1556 // 6224 on Christmas Day; however, on New Year's Eve a friendly ham helped put Gnomes back on the air with 55 watts on 7100 kHz from a site in Ramsey, Isle of Man, which may be a new SWBC country (Campbell)...Radio Apollo is now \*1030-1200\* Sundays on 6222 kHz, requesting reports to BRAM, 21 Forest Gate, Anstey, Leicester, England; signals are good in Belfast (Campbell)...Apollo announces // 9500, 15015, but only 6222 traced (Campbell)...Radio Caroline Scotland, 150 watts, is now \*0000-0115\* & \*1400-1800\* Sundays on 1358 MW (Campbell)...Radio Caroline South is \*1300-1800\* Sundays on 1388 MW (Campbell)...Somebody who plays only irregular music sans announcements is sometimes traced between 1800-2200 Sundays on 1330 MW (Campbell)...A chap calling his operation "Radio Free Scotland" was recently fined 50 pounds in a Glasgow court; he operated on MW (Campbell)...The Manager of Radio Caroline Scotland writes SWBC activity on 49 meters is planned; it isn't clear if he means his own station or others (Campbell)...Equipment for a planned clandestine radio operation allegedly run by the Brazilian Communist Party was seized at 2476 Rio Grande Street in Jacarepagua and one ex-Captain Antonio Rollemberg, a so-called "communist", was arrested at the same time (Gregg Calkin, Ottawa, Canada)...In response to a taped report for the Voice of Malayan Revolution and a friendly letter sent to Samdech Norodom Sihanouk via Radio Peking, Jeff Bell received the following telegrammed reply: "I THANK YOU FOR YOUR LETTER EXPRESSING YOUR SYMPATHY AND XXX BUT YOU MUST PLEASE EXCUSE ME FOR NOT BEING ABLE TO TRANSMIT YOUR MESSAGE ON TO REVOLUTIONARY RADIO WITH WHICH WE ARE NOT IN CONTACT NORODOM SIHANOUK"; the telegram was in French and the translation is Jeff's (Jeff Bell, Perth, Australia) Closest to a verification to date, and certainly a most unusual souvenir! Would anybody be able to indicate the address(es) of any Malayan Communist Party headquarters? Possibly such an office would confirm Voice of Malayan Revolution broadcasts (Ed)...A plot to hijack an airliner and crash it into the heart of Tel Aviv was hatched by Black September Palestinian activists; however, the plot was intercepted by unspecified intelligence agencies, "which monitor the secret radio bands used by Arab terrorists" (Jack Anderson) Presumably NSA or a contact agency (Ed)...The events leading to the termination of the Voice of the National Liberation Front of Chad (cf. January CB-2 & 3) were apparently as follows: Chad President Francois Tombalbaye was in difficulty, as he was the Christian President of a country with a Moslem majority, which had a substantial Moslem rebel movement (FROLINAT - Ed.) financed in Libya and with headquarters there; too, Chad was nearly bankrupt and both France and Israel, usually friendly to Tombalbaye, refused to render financial assistance; to alleviate these two headaches, Tombalbaye visited Tripoli and mended fences with Colonel Qaddafi, the Libyan leader, receiving a loan of \$91 million and, it appears, having the revolutionary radio activity terminated (New York Times)...Liberty Radio doesn't seem to be located in Ireland; it is 30 watts and has transmitted since June 25, 1972, and is scheduled from \*1000\* Sundays (Al Martin, Lancashire, England)...World Music Radio now seems to be stabilized on 6250 (Martin)...Swedish pirate Radio Baltic International on 6225 has been closed down by Swedish authorities (Martin)...New? Radio Atlantis International noted 1013-1040 Sunday 12/17 on 6230, asks reports to Dept A3M BIRM, 23 Dorset Gardens, Brighton BM2 1RL, Sussex, England (Martin)...Radio Atlantis North & Radio Atlantis South are now inactive and apparently replaced by Radio Atlantis International, above (Martin)...Radio Gemini is a new pirate heard from \*1000-1100\* on 6220 with nominally 150 watts, likely less, varies with a card from 50 Hempstead Road, Watford, Hertfordshire, England (DSWCI)...Radio Pegasus, located near Grimsby, England, is \*1100-1200\* mosy Sundays on 6300 kHz with 25 watts; write to Box 380, 22 Goldershard Road, West Ealing, London W13 9DX (sic), England (DSWCI)...Radio Free Russia does indeed still boast via KBS, Seoul, from 1415-1430 & 2145-2200 on 9640 kHz (BBCMS).

# Shortwave Center



EDITOR  
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Deadline 15th of Month

EDITOR'S NOTE: We want to thank fellow journalist and DXer Don Jensen for making this little-known story of the FBIS exclusively available to FRENDX. It will appear in two installments.

By DON JENSEN

What is FBIS? The simple answer: The Foreign Broadcast Information Service, Uncle Sam's own personal, private SWL. Most DXers know it as the governmental agency that puts out, roughly every year or so, the four-volume "Broadcasting Stations of the World", the well known "FBIS lists". But that's about all most DXers know about the agency. While that isn't much, it's much more than the average, by and large non-DXing American knows about FBIS. And, frankly, FBIS likes it that way!

According to Paul A. Borel, FBIS director, "Now, as in the past, FBIS prefers to avoid publicity. Not that we have anything to hide, but the presence on foreign soil of some of our monitoring stations and our affiliation with the Central Intelligence Agency make us a potential target for those who seek to embarrass the U.S."

And there, Virginia, you have it. The first of the not so simple answers to the question, "What is FBIS?" It is part of the CIA. But there's more, much more.

FBIS, in essence, does what DXers do--monitors foreign shortwave broadcasts, the normal, everyday programs of overseas stations. It doesn't listen to the super-secret stuff, alien military communications, spy transmissions and other electronic exotica. That's the job of the National Security Agency. FBIS focuses on the information it can cull from public broadcast sources. Certainly this is useful grist for the cloak-and-dagger boys. But, let's face it, the FBIS job is glorified SWLing. Why all the mystery?

And mystery there is aplenty. FBIS would have the world believe that it's an ultra-hush-hush outfit. And, with only a slight exaggeration, would have you believe that it operates from a post office box in downtown Washington!

Borel, basically, gave two reasons for this secrecy, both related. Both are closely linked to the FBIS affiliation with the CIA spy outfit. But do they hold water?

The first argument against the light of publicity is that the FBIS monitoring posts are located in foreign countries and if that were widely known there could be embarrassing incidents by anti-U.S. elements. A valid argument? Well, we also have military bases in many overseas countries. Their existence and locations are hardly secret. A military presence is far more provocative, potentially, than a small band of monitors who listen to foreign broadcasts armed with nothing more lethal... (Continued on next page)



INSIDE THE FBIS by Don Jensen....(Continued from preceding page)

than a communications receiver. If the Armed Forces do not hide the presence of overseas military bases from the public, why FBIS?

The second argument is that FBIS is, after all, part of CIA, and that, itself, could be provocative and a source of potential diplomatic incidents. There may be more validity to this point but the answer is simple. The predecessor of FBIS was not part of the intelligence apparatus and there seems to be little reason today why FBIS is linked with the CIA. But more on this point later.

For the moment, let's take a look at how it all began and what FBIS really is today.

It began over 30 years ago, back on February 26, 1941, to be exact. Then Congress established the first government broadcast monitoring system. It started with an emergency Congressional grant of \$235,000 and later received an additional \$809,000 for operations in fiscal 1942. The organization was then called Foreign Broadcast Monitoring Service and was set up as a branch of the Federal Communications Commission. Its first director was Lloyd A. Free, a San Jose, California, native.

Before FBMS, the only U.S. organizations with an interest in foreign radio transmissions were the Princeton Listening Center, part of the Princeton University School of Public and International Affairs and the national broadcasting networks, CBS and NBC.

The Princeton Listening Center was created to study the role of radio in modern warfare. It developed and refined analysis techniques which had been pioneered by monitors in Great Britain.

Just before World War II, the National Broadcasting Co. established a listening center with 8 communications receivers in a quiet section of Bellmore, Long

Island, New York. It was linked directly by phone lines with the NBC network newsroom in New York's Manhattan.

Monitored broadcasts could be fed directly to NBC listeners in this way. A second NBC monitoring station was set up in August 1941 in North Hollywood, Calif. to monitor Pacific broadcasts from Tokyo, Chungking, Australia, Manila and the Dutch East Indies.

About the same time CBS set up a wooden shack on the edge of a field near Roosevelt, also on Long Island. In this electrically quiet location, four technicians kept a 24-hour-a-day watch on foreign broadcasts. They were fed by wire to the CBS New York listening station, part of the news and special events department in the CBS building on Madison Avenue. Listener-translators made penciled notes of the high points of these broadcasts and Ediphone wax-disc recordings were made of segments to be aired by CBS later. It was possible in this way to get news flashes picked up by shortwave monitoring on the air again within four to ten minutes.

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PART OF FBIS 1971 LISTINGS BELOW.

FREQ.	COUNTRY STATION NAME OWNERSHIP	CITY	SYMBOL CALL	W/L	POWER
15045	VIETNAM (D.R.) TIENG NOI VIETNAM GOVT	HANOI			19.94
15048	CLAREOSTRE RADIO LIBERTAD. LA VOZ ANTICOMUNISTA DE AMERICA	LATIN AMERICA	Y		19.93
15055	CHINA COMST RADIO PEKING/CHUNGYANG J.K.T. GOVT	PEKING			19.93 20000 120000
15055	U.A.R. (EGYPT) ISHAT AL-JUMHURIYAH AL-ARABIYAH AL-MUTTAHIDAH U.A.R. BROADCASTING & TV CORPORATION (IGOVY)	CAIRO (ABU ZABAL)			19.93 10000 250000
15000	CHINA COMST RADIO PEKING/CHUNGYANG J.K.T. GOVT	PEKING	Y		19.92 20000 120000
15000	CLAREOSTRE RADIO ELIZNADI	SPANISH	Y		19.92

The CBS and NBC posts operated throughout the war. But in this space age of communication with satellite transmission of TV signals and all the rest, the networks and press agencies rarely find it necessary to get news from overseas shortwave broadcasts. Yet, when news originates in some of the lesser developed nations of Africa and Asia, broadcast monitoring may be the only practical way to

(Continued on SWC Pg.10)

## A DXer's Visit To CKWX (CKF X)

By DAN HENDERSON

On 24 September during a business trip to the Pacific Northwest, I had the opportunity to visit the lowest powered commercial shortwave station in North America---CKFX. The station is located in a very attractive one-story building in downtown Vancouver, British Columbia, Canada. Upon arriving at the address given in '72 WRPB, 1275 Bernard Street, I did not find any sign indicating the presence of a shortwave station; only CKWX, a 50 kw medium wave station, was listed on the sign.



THE SIGN SAYS CKWX

(Photo by Henderson)

After knocking on the door (it was Sunday morning and the business offices were closed) the disc jockey on duty at the medium wave station unlocked the door and let me in. I inquired about the presence of a shortwave station at the address and he indicated that "this was the place". So I had "arrived".

We talked for a few minutes in between announcements (since he was on the air) and he related that the shortwave station was used to supplement the coverage of CKWX. The transmitters are located on Lulu Island, south of Vancouver between the city and the U.S. border. The mountainous terrain around Vancouver and the surrounding area made complete medium wave coverage impossible. Therefore the SW outlet, CKFX, was used to relay CKWX programming.

The disc jockey, Mr. Herb Meadows, was very cordial and gave me a guided tour of the studios. He indicated that the shortwave station has been heard all over the world. When I mentioned that I had recently heard the station in Maryland, he indicated that letters and pennants had been received from Australia and New Zealand. In the very attractive lobby I noted a New Zealand DX League pennant proudly displayed. Since Mr. Meadows was still on the air, I asked directions to the transmitter site and bade him goodby. He was very cordial and the visit was very friendly.

### DX Thrills

(Contributions are wanted)

Perhaps my biggest thrill in DXing was the logging and verification of CKFX. Even though several years ago, I still remember that it was painful!

I was using the Knight Star Roamer, my first rx for which I still have a soft spot in my heart although it was a piece of junk. As I logged CKFX around 2 p.m., the QRM was terrific. I found that by pressing the headphones hard against my head I was able to block out

(Cont. next page)

I found the transmitter site on Lulu Island just off BC Route 499 and the Westminster Highway. The antennas were vertically polarized and included a number of towers less than 100 feet high. No one was at the site, so I left on my return trip to the Seattle area.

For DXer's interest, the station operates 24 hours, 7 days a week on 6080 kHz with 10 watts power, relaying CKWX. There are no mentions of CKFX in station IDs so don't be misled--CKWX is MW, CKFX is SW, according to the station's license displayed in the control room. As for QSLs, the station will reply to a correct

report via letter verie, as some lucky DXers can testify. All in all, trip was my most enjoyable yet--truly a DX experience!

**QFO**

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----- A NEW TYPE OF INTERFERENCE ! ? ! ? ! ? ! ?

By CRAIG W. WICKS

Has anyone ever been DXing a rare catch, say Radio Riga, when all of a sudden a terrible squawking boils forth from the headset? I'm sure if one has one would put it down to down to jamming from Radio Moscow (but not Riga) or Peking. You gently turn the dial to some other station and just give up--right? Well, the fact is that the interference you heard may be the result of a systematic destruction of signals from other apparatus than earth-based.

Due to increasing reports of unidentified flying objects (UFOs) in the U.S. and world this year, I submit that the interference may be the work of the fiendish little devils inside them.

Systematic research done by myself and colleagues of the **OOO** Organization of Odd Occurrences (OOO) seems to point to this. We have found that not only do they currently infest rare DX station areas but are actually deionizing our atmosphere. Most pseudo experts agree that the loss of ions in the atmosphere is a direct result of our sun. We do not concur. After all, who can believe that a ball of gas 93,000,000 miles away from us can have any effect on our ions. It is preposterous and we cannot allow it to continue! I remind you of the writings of the famous 18th Century radio pioneer, Dr. Ludwig H. Harmonics, who once developed the well known portable frequency responder (Harmonica). He many times expressed the opinion that those buzzes and hums on the bands were not the fault of your receiver.

To sum up, I am requesting--no I am demanding-- an immediate, extensive investigation by higher authorities into the problem. For the time being I suggest that we bring a new Q signal into being: QFO. I will continue to look into the problem and report to you from time to time with new developments. I request that anyone who experiences this type of interference contact me. At any rate, I hope this article has helped to tune your ears to the ever-present QFO interference.

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**DX THRILLS (Cont.)**

some static and barely read the signal. It happens that the phones were those very cheap crude type without any cushions for your ears. After I logged CKFX for the next 6 hours I walked around with sore ears but a happy heart.

\*\* By Andy Kerr, Oregon \*\*

++ **WORLD HOLIDAYS** ++

By Steve Sykes

(D used for Day)

- 9-Lebanon-St. Maron D.
- 11-Vatican-Lateran Pact.  
Camerouns-Youth D.
- 12-Burma-Union D., Liberia-  
Armed Forces D.
- 13-Nepal-Shivaratri.
- 14-Approx.-End of Muharram. Last day called Ashura. Middle East.
- 15-Mauritius-Spring Festival. 17-Laos-Buddhist Holiday.
- 19-Thailand-Malka Bucna D. Nepal-Democracy D. Gambia-Republic D.  
Ethiopia-Martyr's D. Syria-National Unit D. 23: Guyana-Anniv. of  
Repub. 27: D.Rep.-Independence D. 28: Nepal-Holdi (aka Phagu).

**ONE MILLION WATTS**

Christianity Today reports that Evangelist Billy Graham has filed application with the FCC to build a one-million-watt shortwave station on a mountain in Maui, Hawaii. It would cover most of the South Pacific and Far East and be the most powerful private SW outlet in the world.

There are only 3 private SW stations in the U.S.A. and the FCC has had a freeze on new ones. However, it has been studying the situation and may issue new rules by June. Graham has already acquired a 1,100-acre site in Maui. The project has been on the drawing board for 12 years.

--From Rev. Tom Blossom.

## '73 Degrees In Downtown Ankara' ... The Voice Of Meteorology, Turkey

By RALPH W. PERRY

You've heard the time from JJY in Japan, VNG in Australia and YVTO in Venezuela. You've heard the propagational condx from Boulder and the news from DW in Cologne, RN in Holland and the SEC in Berne. Now howsabout something different: the weather from Ankara?

From the heart of Ankara, the Turkish State Meteorological Service now broadcasts daily transmissions consisting of folk music from Turkey with frequent spot weather announcements interspersed between tunes. Although only a "kilowatt dwarf" in comparison with its big brother (the Voice of Turkey), the Voice of Meteorology's spunky 2.5 kw's (by virtue of the clear, relatively-high SW frequency of 6900 kHz) often makes a substantial ripple in the airwaves. After shuffling between the frequencies of 6890 and 6900 last winter, this flea-powered Anatolian has (at the time of writing) now settled upon 6900--thus placing it within the no-pain, no-strain tuning grasp of any SWL or DXer with merely a 100 kHz calibrator (and the right crystal).



The Meteorological Service employs, as mentioned, a 2.5 kw transmitter in conjunction with an antenna which is a delta-matched open wire balanced 500-600 ohms, at a height of 56 feet. Their unassuming antenna is 76 feet long.

Schedule is as follows: 0455-0500 GMT, interval signal. 0500-0700, 0800-0940, 1200-1615 and 1800-1930 GMT.

Broadcasts are entirely in Turkish and the station personnel is extremely courteous and eager for reports. And to catch a glimmer of their unique IS is alone worth the price of admission! From 0455-0500 GMT, a few repeating refrains are played upon the indigenous musical instrument, the "saz", which the station director himself, Prof. Dr. Uman E. Colasan, describes as "an instrument like a twangy mandolin". And just between us DXers, if the saz ever makes it stateside, Chet Atkins may have some real competition on his hands---hi!

The Voice of Meteorology is a friendly station, and English reports will suffice. Verification is by a generally prompt, full-data letter. The best time to tune the weather from Ankara seems to be during the 0500-0700 slot and the best preference therein seems to be at the IS and 0500 sign-on.

Address: The Voice of Meteorology, Turkish State Meteorological Service, P.O. Box 401, Ankara, Turkey.

Check out the V. of Met. and its kooky IS...I guarantee you'll be "saz-isfied".

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**THAI TV COMPANY**---Normally all services of the Thai TV Company Limited are broadcast on Medium Wave and FM but about eight years ago shortwave transmissions were added. The "Regular Service" consists of 27% music, 28% entertainment, 10% talks and features, 20% news and 15% commercials and is broadcast on 6010 kHz from 2300 to 1700 GMT with 10 kw power. The Music & Drama Service is transmitted on 7105 kHz from 2200-1800 with 2.5 kw. SW transmitters are "do it yourself", that is made by technical staff members. Antennas are dipole, 30 meters high. Thai TV is both a commercial broadcasting company and a state service. Mr. Raksak Vadhanapanich is director and the address is: Thai TV Radio, Soi Aree, Paholyothin Road, Bangkok 4, Thailand.

....Data Obtained by Danny Jamison.

BANGLADESH'S 1ST GENERAL ELECTIONS MAR.7---Watch for special coverage on shortwave by Radio Bangladesh!

## NASWA Reviews ...

### Latin American Commercials— A Guide To Latin Reporting

Under the auspices of DX-Alliansen and edited by Swedish DXers Nils Ingelstrom and Henrik Klementz, "Latin American Commercials" is a 25-page, easy-to-read, offset booklet that attempts to put at the disposal of the LA DX-enthusiast a reference to facilitate identification and reporting of South American SW broadcasters.

There is, first of all, a 15-page compilation of both trademark names and generic types of products likely to be encountered in LA broadcasts, arranged alphabetically and intended for use in writing truly accurate and credible reception reports for stations which traditionally go to no great pains to maintain detailed program logs. To illustrate: a typical generic product entry might read--- "cerveza, Taquina-B (Cochachamba)". And similarly this product is elsewhere cross-referenced under the appropriate trademark entry of "Taquina, cerveza-B". And thus you know from the short ad you've caught for Taquina that the field of possible stations is certainly narrowed down---for only Bolivians in the Cochachamba area wet their whistles with Taquina lager beer!

The list is relatively comprehensive. For instance, under the heading of cerveza alone (i.e. beer), there are 49 different brand names listed and under cigarillos there are 69, each, of course, indicating the country in which the product is consumed.

The booklet also contains short sections concerned with the major chain stores throughout LA and a few pages offering tips on identification and reporting of LA outlets. In all candor, these pages on IDing and reporting and so forth seem to be merely filler material; the brunt of this booklet's good is the very valuable 15-page commercials index. This list will be of great use to the serious LA DXer although, of course, nothing can take the place of a station identification. And this seems to me the only real flaw---that a slipshod DXer might feel a work like this renders unnecessary the practice of positive identification.

Despite our criticisms, however, this superb work represents a breakthrough of mammoth proportions for the LA DXer. Available for \$2 by air from Nils Ingelstrom, Minnebergsv. 9-11, S-161 34 Bromma, Sweden. Order by International Money order is preferred, but checks are O.K.

REVIEWED BY RALPH W. PERRY

### From Semaphore To Satellite

BY DR. ANTHONY R. MICHAELIS

This 343-page book is an outstanding recreation of the activities of the International Telecommunications Union over 100 years (1865-1965). It provides the reader with valuable insight into an organization whose work can be easily overlooked or taken for granted. The activities of the ITU are to SWLers what NATO is the Free World: if it weren't there, maybe we wouldn't be here.

TEXT---The book is broken down into three major parts: Part 1---The Telegraph and the Telephone 1793-1932. Part 2--- Radio 1888-1947. Part 3--- The Union after a Century 1947-1965.

The text is a real pleasure to read. Dr Michaelis explains that the history of the ITU and its many activities covers scientific history, invention and international cooperation. The text is a fine blend of all these ingredients and the author writes with a great respect for ingenious minds that create scientific wonders and the ITU's eternal spirit represented through its members striving for international participation and agreement. The reader soon learns that the ideas and ideals of the ITU stem from a body of individuals working together and not one single individual running the entire union. Dr. Michaelis proves this to apply equally to every important invention and creation as well.

(Continued on Next Page)

<b>DX Tips</b>
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**EDITOR'S NOTE:** Share your know-how with others. Send us a "DX Tip". Regardless of length of time in the hobby, you may have something of value.

Receivers are designed with various devices to filter unwanted noise and improve the signal to signal + noise ratio. One "filter" seldom considered by the DXer is the ear-brain combination itself, the ultimate link in the reception chain. Lab studies show that if sound fed to one ear is out-of-phase with that delivered to the other, the hearing system will tend to ignore a significant part of the random noise, but not the intelligible signal. The perceived reception, experiments show, can be improved by as much as 30 per cent. Your headphones, unless modified, present the identical in-phase signal to both ears. A simple modification is to reverse the wires leading to one, and only one, of the two headphones speakers to put them out-of-phase. This means clipping the wires, the pair that cross the top of the headband, and reversing their connections. Install a small double-throw, double-pole switch and you can switch from in-phase to out-of-phase at will. The improvement in perceived reception of the program signal will vary from person to person, depending on individual hearing characteristics. Some persons, however, report that listening to out-of-phase sound is tiring after a period of time, but this, again, depends on the individual. For such persons, the switch arrangement, permitting rapid change from in-phase to out-of-phase listening, would seem useful. Also, the switch will permit instantaneous checking to determine if out-of-phase listening improves reception intelligibility under various conditions. Remember, this technique does not actually improve signal to signal + noise ratio but may improve the signal to signal + noise ratio perceived by the hearing system.

....From DON JENSEN

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**REVIEW OF "FROM SEMAPHORE TO SATELLITE"** (Continued from Page 8)

This feeling of closeness and cooperation is reflected throughout the 1865-1965 era, despite a great many obstacles, needless to say!

**ILLUSTRATIONS---** Most of the material covered in the writing is also presented in illustrations, the wealth of which alone make the book worth buying. Many photos (supplied by ITU member governments and the author) are original reprints of exciting historical significance, such as Alexander Graham Bell's telephone patent of 1876 and the first radio transmission experiment from the Eiffel Tower, 1898. Plus 360 more!

This book covers much beyond the immediate realm of SWLers. But it remains just as true that in order to understand fully appreciate the SW hobby today we must pause and search out the history of how it proceeded to where it is today and, indeed, where it appears headed. To accomplish such understanding and appreciation, we must look at the entire spectrum of telecommunications from optical telegraph of 150 years ago to telecommunication satellites of our present day. This book provides a firm step toward this understanding and appreciation. Besides, it is an excellent reference source and a valuable addition to the SWLers library.

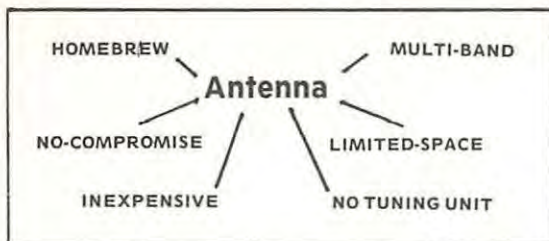
The volume is available from Gilfer Associates (\$5 postpaid) and is highly recommended.

REVIEWED BY EDWARD J. INSINGER

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**GIVE TO NASWA!** Your talent, your know-how but most of all your support. As SWC Editor we have been much encouraged by the material already sent us. Forthcoming issues will have topnotch articles! Keep it up!

**UPCOMING:** An exclusive article, with pictures, one month away, on one of the toughest countries to log---RADIO MALDIVES! Don Jensen continues his fascinating FBIS story---and much more!



AN INTERESTING  
DO-IT YOURSELF  
ANTENNA PROJECT

By  
 NEAL A. PERDUE

Editor's Note: If you have a 52 ohm SW rx, NASWA member Neal A. Perdue may have the antenna solution for you. Give it a try.

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Many of us choose receivers that cover segments (usually 500 kHz wide) of the shortwave spectrum rather than general coverage 3-30 MHz receivers. We who do so face a problem not encountered by a general coverage rx owner--we must choose an antenna that matches our 52-ohm nominal receiver impedance. A longwire, zeppelin, windom, folded dipole, etc. are fine for a GC rx which will accept up to 600 ohms without a mismatch but to connect this type of antenna to a 52-ohm rx is unacceptable due to significant signal loss. I used all sorts of end-fed wires through a selector switch for some time and I know.

For the person lucky enough to have space for an assortment of dipoles, or a trapped dipole such as the Mosley SWL-7, the problem is simplified-- get the antenna the proper height above ground and the impedance match will be O.K. However, dipoles have a null-effect off the ends, so to cover all directions you would have to have two dipoles at 90 degrees out to resonance for each band you wished to listen to.

The antenna which I wish to discuss is a semi-vertical, quarter wave ground plane with several elements. The only place I have seen a reference to it is in "Better Shortwave Listening" which gives a short paragraph on the fan-vertical. My antenna is a one-pole variation of it.

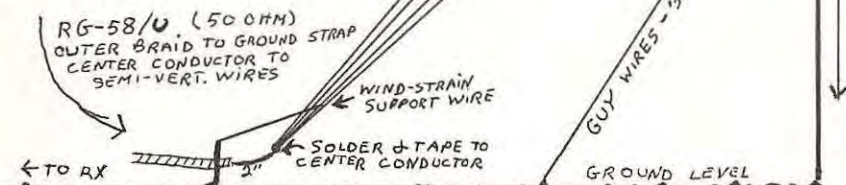
The principle of a basic semi-vertical ground plane antenna is that you cut the semi-vert elements to resonance for a particular frequency, using the formula  $234$  divided by the frequency in megahertz. This is  $\frac{1}{2}$  the length of the formula for a  $\frac{1}{2}$  wave dipole, the reason being that the other  $\frac{1}{4}$  wave is supplied by the ground "image" which we will get to in a minute. As many semi-vert wires may be strung up as there are bands on your rx. Use insulated wire as they may touch. They are strung semi-vertically to a vertical pole, tree, etc. so that they will all form an apex at ground level. To make them all meet without sagging, it is necessary to experiment (preference is for 2 persons) with various lengths of wire between the end-insulator and the upright (see diagram). If one person is in the tree, it is simple enough to take in or let out the proper amount of wire. If you use a pole, as I did, you may have to put it up and take it down several times to get all the wires taut and meeting at ground level.

To supply the "second half of the dipole", we use the ground-image which is nothing new--every antenna uses it--but we'll use it directly. Drive a 4 foot section of aluminum pipe of any diameter far enough into the ground so that just a few inches protrude and tighten a ground rod connecting strap (available at any electronic dealer) firmly to it. Prepare one end of a RG-58/U coaxial cable (52 ohm) by "combing" about 1 inch of the braided shield and twisting tight. Trim the insulation off of about  $\frac{3}{4}$  inches of the center conductor. Connect the braided shield to the bolt and locknut on the connecting strap and twist, solder and tape the center conductor

(Continued on Next Page)

16 THRU 60 METER ANTENNA (Excluding 41 Meters)	
<u>A</u> ---	46' 8" Resonant for 60 & 19 M. (3rd harm.)
<u>B</u> ---	39' 4" " for 49 & 16 M. (3rd harm.)
<u>C</u> ---	24' 3" " for 31 meters.
<u>D</u> ---	19' 9" " 25 meters.

CONSTRUCTION NOTES: Use insulated wire for semi-vertical wires. Leave them slack and take up a few inches of slack with the wind-strain support wire. Some adjusting will be necessary between the insulators and the pole in order to have all semi-vert. wires meet at the common ground connection. Any number of semi-vert. wires may be strung for the frequencies (bands) desired. Formula for any band length is 234 divided by mid-band frequency in megahertz.



NEAL PERDUE'S | ANTENNA PROJECT..... (Continued)

to all the antenna wires. At the rx the center conductor goes to the antenna terminal and the braided shield goes to the ground terminal. You now have resonant semi-vert ground plane dipoles for the frequencies for which you have cut the wire.

I noted significant signal gain, better signal to noise ratio, and overall greatly improved reception with this antenna. With the semi-vert configuration you will gain omnidirectional characteristics and less local noise than with a straight vert. Most important you have matched the rx impedance with the antenna impedance.

You may think, as I did, that connecting all those wires "in parallel" would change the basic impedance but this is not so as the receiver only "sees" the resonant length and impedance of the wire upon which it is operating.

I still had all my old end-fed wires hooked up to my 8-position two-pole selector switch after installing my semi-vert fan and actual comparison tests showed "no contest" for the end-fed wires. I would tune in a station on the fan audible enough for a QSL report, switch to the end-fed wires and the station was gone. Nuff Said?

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NEWS FROM THE MISSIONARY STATIONS (From Marlin A. Field)

Station ELWA in Liberia will use time on the FEBA station in the Seychelles to improve coverage of the Middle East with Arabic broadcasts....KGEI has successfully tested out its new 250,000 watt transmitter on 15 MHz with full rated power.... Most of FEBC's full-time staff members are nationals who broadcast in their own language...Two-thirds of HCJB's audience, English, are young people.

\*\*\*INSIDE THE FBIS by Don Jensen (Continued from SWC-2)

get the news. The recent problems in Uganda point this up. But regularly operating private news organization listening posts are few and far between in the '70's. The Associated Press is known to maintain a one-man, one-receiver office in Miami to catch Fidel Castro's radio speeches. NBC has a rather unique setup in the Hong Kong area to eavesdrop on China's television outlet in Canton. But that is about it.

It was different in 1941. In the broadcast monitoring business FBMS was off to a late start and worked hard and fast to catch up. It hired a staff of 350 listeners, translators, technicians and analysts, many of them from the Princeton Listening Center. Much of the technical expertise was provided by the Army's Signal Corps.

Before long, FBMS was logging three-quarters of a million words a day, most of which had to be translated to English before analysis. It took about 7 hours of work, monitoring, translating, analyzing and summarizing for each hour of off-the-air programming logged. At noon each day, FBMS prepared a summary of the current propaganda scene for the Department of State, War and Navy.

The monitoring was done at four sites around the country. Four of the FCC's regular monitoring stations were used by FBMS, some of which were shared with another monitoring agency, RID, the Radio Intelligence Division of the FCC. RID was, like the National Security Agency today, involved with listening to military and espionage communications, not broadcast programs.

The main FBMS post was at Silver Hill, Md., just outside Washington, D.C. It concentrated on broadcasting stations in Western Europe, Africa and the Near East. A second, at Santurce, Puerto Rico, tuned the programs from Eastern Europe. The Pacific and Orient areas were the responsibility of FBMS listeners at Portland, Ore. and the FBMS operation at Kingsville, Texas, handled signals coming from Latin America.

Today, none of these listening stations is used by FBIS. There are no FBIS monitors at the Kingsville location, part of the famous King Ranch in Texas.

The Oregon site, 100 acres at NE 148th and Glisan Street, in suburban East Portland, once a maze of pole-strung antennas of nearly every description, is no more. Gone are the three buildings, which apparently housed a power plant, receiving gear, offices and quarters. Gone is the steel-mesh fence surrounding it and the security guards. The site is completely bare except for a water storage tank erected three or four years ago.

When the war ended, there were supposedly plans to shift FBMS from the jurisdiction of the Federal Communications Commission to the State Department. But, for some reason, this didn't happen. In January 1946 it wound up as part of the War Department's Military Intelligence Division. And thus began to agency's pseudo-espionage role.

About this time, a single, unified, permanent intelligence authority was formed. Its operating arm was called the Central Intelligence group. And in November of that year the Foreign Broadcast Monitoring Service became part of the CIG.

The next year the National Security Act created the Central Intelligence Agency. The CIA officially was born on Sept. 18, 1947. And with it, under a new name, came the Foreign Broadcast Information Service, FBIS.

(TO BE CONTINUED IN MARCH ISSUE)

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WELL, HARDLY! A NASWA member who teaches has a pupil who is also a SWL. The student came in with a Radio Moscow QSL one day and said they would play a musical request. "Will they play "The Stars and Stripes Forever" for me?" the youth asked the teacher.

Gregg Calkin  
 P. O. Box 1345  
 Station "B"  
 Ottawa, Ontario K1P 5R4  
 CANADA

# QSL Report

Telephone: (613) 232-0539

Deadline: 15th of month

## WHAT'S IN A NAME ? or...

### HOW NOT TO INSULT YOUR VERIFICATION SIGNER!

This month we begin a short series which will continue as space permits and which may be useful in pointing out some of the niceties of addressing your reports. We all know, of course, that it is generally more productive, QSL-wise, to address your report to a person at the station known to be interested in DX reports, or known to have verified reports in the past. Now assuming that the name is current (which can be verified by checking recent QSL REPORTS) the one major area in which many DXers fall down is in using the name correctly. Name structures the world over are often somewhat different from North America (ie given name first, middle name middle and family name last). This series will deal first with Latin American names and subsequently with certain Asian countries.

#### Part I - LATIN AMERICA

In Spanish, Mr. is rendered as Señor (Sr.); Miss = Señorita (Srta.); and Mrs. = Señora (Sra.).

For example, take Srta. Linda Gonzalez Femenina. Linda is her given name, Gonzalez is her father's family name (patronymic), and Femenina is her mother's maiden name (called the matronymic). In Latin America the child always bears both father's and mother's family names. The patronymic (Gonzalez) may never be abbreviated in the same way that one does not abbreviate a surname in English. But it is common for the matronymic (Femenina) to be abbreviated. Therefore, one could write: Srta. Linda Gonzalez F., but never Miss Linda G. Femenina, and this is the first major error which DXers often commit.

Now, if you have followed me so far, let's marry Srta. Gonzalez to Señor José Masculino Torres. José's patronymic is Masculino and he would therefore be addressed as "Sr. Masculino" or, more formerly, as "Sr. Masculino Torres". Torres is his matronymic (mother's name before marriage), remember? Now, after the marriage, Sr. Masculino's name remains exactly the same as before, but Srta. Linda Gonzalez Femenina drops her mother's name, "Femenina", and takes on her husband's "Masculino", preceded by the Spanish preposition of possession "de". (Women's Lib - take note!!). She is now Sra. Linda Gonzalez de Masculino. Her children will be called by their first, often saint's names (eg Pedro, Maria, etc) plus their father's (Masculino), then hers (Gonzalez). Example: Pedro Masculino Gonzalez. And it begins again with the little señoritas. Clear?

Lets look at a few practical examples from this month's QSL REPORT. In Colombia we see that the V/S for Emisora Nueva Granada is Lucy Rodriguez C. We know therefore that she is unmarried (no "de" etc.), that her family name is Rodriguez (hence she is known as "Srta. Rodriguez"). Radio Santa Fé's V/S on the other hand is Luisa Mahe V. de Bernal. She would be addressed as Sra. Bernal. We also have here not only a married lady who adds her husband's name to her own ("de Bernal"), but who also retains the letter of her matronymic ("V"). Now what about reports to the V/S at Ecos del Torbes in Venezuela? Obviously, the V/S is Sra. Chacón. Right?

## QSLs RECEIVED

This month several rare QSLs have been received from Mauritius, New Hebrides, Portuguese Timor, Spanish Sahara and the rare Clandestine, La Voix du Pathet Lao. In addition many interesting QSLs are in from the Latin American countries.

AFARS AND ISSAS: ORTF, Djibouti, 4780, folder card showing station pic; sked, all data except freq. V/S: A. Daumas. 13 days air for 3 IRCs and NASWA French rpt. (Churchill) 3 weeks for mint stamps and French report. V/S: J. Sourd (d'Adolf)

ALBANIA: Radio Tirana relay of Radio Peking, usual RP card and form letter for 9780. No data. (Kamp)

ANGOLA: Emisora Oficial, 11875, full data p/p/card of Luanda by seammil in 133 days for 2 IRCs and Portuguese report form. (Hardester)

Radio Clube da Huila, 5025, card airmail in 19 days. (Dexter)

Radio Clube do Huambo, 5060, usual "no data" card in 1 1/2 months for Portuguese report and mint stamps. (Howard)

ARGENTINA: Radio Belgrano, LR2, 11780, Spanish letter QSL listing frequency only; 23 days for NASWA Spanish report, 2 IRCs and 2 USA Christmas 8 cent mint stamps. V/S: Maximo Koelble, Gerente Técnico. (Hensley)

LOL Time Signal, 10,000, long English/Spanish card w/Naval seal at top; 3 months. (Jamison)

RAE, Buenos Aires, 9690, green map card w/full data in 139 days seammil for mint stamps; Reported in English. (Mayer)

ARMENIAN S.S.R. Radio Yerevan, plain card, 2 months w/full data for 17880 kHz (Cole). 15130, plain white card w/full data airmail in 77 days (Norko) from which sites? (Ed.)

ASCENSION IS: BBC Atlantic relay, card w/no information in 87 days. (Herson) 6005, 15260, card in 7 weeks (Barto)

AUSTRALIA: Radio Australia, 21740, 2 cards in 80 days seammil (Nebron) 11765, full data card in 35 days airmail for 4 IRCs. (Wiseberg) Shepparton, 11710, Opera House/Sydney card air for 3 months (Eichenhorn)

ABC/Sydney, 6090, card w/all data plus power in 4 weeks air for 3 IRCs. (Wallace) 7 weeks (Barto)

ABC/Brisbane, 4920, map card in 2 weeks airmail; no IRCs. (Fabian)

VNG Time Signal, Lyndhurst, 12000, folder in 3 months for 10 kW. (Barto)

AUSTRIA: ORF, Vienna, 9770, scenic verification card in 6 weeks w/sked; no IRCs. (Rydell)

BANGLADESH: Radio Bangladesh, Dacca, 17935, card in 47 days airmail for 3 IRCs. V/S: M. Habibullah, C.E. Full data. (Calkin)

BELGIUM: ORU, 9550, blue/yellow card w/map and antenna; 6 months for taped report and 3 f/up. (Archard) 18 days for English report and no IRCs. (Willshaw)

BOLIVIA: Radio Fides, 4845, letter from Padre José Maria Lop w/pennant; 28 days air for NASWA Spanish report and 3 IRCs. (Rippel) 6 weeks for mint stamps, Spanish rpt, and mint stamps. (Reeves) 7 weeks, letter and blue pennant. (Howard)

La Cruz del Sur, 4875, colorful antenna, mountain, llama card for English & Spanish rpt together w/pennant. 2 months for 1 IRC. (Jamison)

BOTSWANA: Radio Botswana, Gaborones, 4845, water buffalo card w/no data; 1 month for 1 IRC. (Robinson)

BOUGAINVILLE: Radio Bougainville, Kieta, 3322.5, form letter w/full data from V/S: Keith Jackson in 1 month airmail for English report and 3 IRCs. (Howard)

BRAZIL: Rádio Clube do Para, letter in Portuguese, by air in 15 days for mint stamps; Gives power as 5 kW. (Reeves)

Rádio Clube de Pernambuco, 11865, postcard showing night view of the Ponta Duarte Coelho in Recife. Confirmation statement from illegible V/S. 2 months air for Portuguese report w/2 IRCs. (Foster) 6015, hand-written note on reverse of p/p/card. 2 1/2 months airmail on 15th try! (Dexter)

Rádio Nacional, 15445, Brasilia, aerial view card of Brasilia w/data plus literature on Brazil and nice pennant in 4 weeks air for 5 IRCs. (Linsenmeyer)

BRITISH HONDURAS: Radio Belize, 3300, map card in 10 days air for 3 IRCs (Conner) 3 weeks for 1 IRC (Robinson) map card in 12 days (Squires) 20 days (Dushane)

BULGARIA: Radio Sofia, 9700, coast view of Nessebar card;  $3\frac{1}{2}$  months (Plum) 2 months for 1 IRC (Carlsen) 4 months seamail (Estes)

CANADA: Radio Canada International, Montreal, 6085, Montreal skyline card in 1 month for English/French rpt. Full data. (Eichenhorn) 17 days all data (D'Angelo) 18 days for 9625. (Austin)

CFRX, Toronto, 6070, full data Toronto skyline card in 25 days seamail. No return postage sent. (Estes) 3 days w/full data. (Roberts) 3 weeks (Conner)

CKZN, St. Johns, 6160, blue card in 15 days seamail. V/S: Frank H. Holm. (Imbert) 4 weeks (Barto)

CANAL ZONE: NBA Time Signal, 11080/5448.5, 2 weeks from V/S: George O. Ravidou Jr. (Barto)

CANARY ISLANDS: RNE, 15365, antenna card w/full data direct from Tenerife airmail in 18 days for 2 IRCs. (Norko)

CENTRAL AFRICAN REPUBLIC: Bangui, 5035, letter in 28 days air saying station is temporarily out of QSL cards. (Rippel)

CHILE: Radio Portales, Santiago, 9570, letter in Spanish from V/S: Arturo Tarud Siwady, Gerente giving veri stant and stating that previous reports had not been received. 8 months after original and 4 and 1 months after 1st and 2nd f/ups resp. Rpted in SS w/ SASE (used). Address: Agustinas 1022, Decimo Piso, Santiago. (Calkin)

CHINA: Radio Peking, card in 1 month (Cole) 15095, card with date and frequency; 2 months. (Barto) 3 months for 15510 (Barto)

CLANDESTINE: La Voix du Pathet Lao, 4660, standard thank you letter w/date only.

Sked also sent by V/S: Oun Heuan Phounsavath, Conseiller Culturel et Chargé d'Information de la Delegation du PPL. 20 weeks air for French rpt with no return postage. Address: 40 Rue Quang Trung, Hanoi. (Foster)

COLOMBIA: Emisora Nueva Granada, HJKJ, Bogotá, 6160 kHz, personal letter from V/S: Lucy Rodriguez C., Secretaria Gerencia in 24 days airmail for Spanish rpt and 3 IRCs.

Written on RCN stationary, QSL gives date only. (Calkin)

Emisoras Nuevo Mundo, HJKC, Bogotá, 4755, replied with CARACOL card giving freq. and date in 23 days airmail for Spanish rpt and mint stamps. V/S illegible but is from the Departamento Técnico. (Calkin)

Ondas del Meta, Villavicencio, 4885, letter in Spanish from V/S: J. E. Cifuentes, Gerente, plus 3-color pennant. Air in 4 wks for Spanish rpt and mint stamps (Calkin)

Radio Nacional, 4955, color p/c of bank bldg in 3 months for Spanish rpt and mint stamps. (Conner) card of the Banco Francés e Italiano plus beautiful 4-color pennant from V/S: German Vargas, Director. Air in 19 days for Spanish rpt and 3 IRCs. (Calkin)

Radio Santa Fé, HJAE, 4965, card, pennant and letter from V/S: Luisa Mahe V. de Bernal, Gerente in 1 month air for Spanish rpt and mint stamps. (Calkin)

Radio Super, 6065, letter in Spanish for English report in  $2\frac{1}{2}$  months (Carlsen)

Radio Sutatenza, 5075, card in 3 months for 1 IRC (Herson) English/Spanish folder card w/data excluding time. 129 days seamail for mint stamps. (Hardester)

CONGO: ORTF relay, Brazzaville, 15190, brown/yellow card in 100 days (Hunt)

Voix de la Révolution, 9715, 37 days for French rpt and 3 IRCs. (Rippel) 9715, 3 weeks airmail (Barto) 1 month air for 2 IRCs (Wiseberg)

COSTA RICA: TIRG, San José, 6037, full data card and nice form letter from V/S: Federico Picado O., Manager, in 3 weeks for English rpt and mint stamps. (Howard)

CYPRUS: BBC relay, 11925, Thames card w/full data air in 8 days for 1 IRC. (Norko)

CZECHOSLOVAKIA: Radio Prague, 5930, blue and pink drawing of city towers card w/all data. 119 days air (Willshaw) 3 months, 4 QSL cards (Fino) 112 days together with a wallet-sized card (Self)

DENMARK: Radio Denmark, 15165, full data card in 1 month for 1 IRC. (Squires) 1 month w/radiohouse aerial tower card (Roberts)  $3\frac{1}{2}$  weeks; no IRC (Rydell)

DOMINICAN REPUBLIC: Radio Exitos, HIRL, Santiago, 3365 kHz, personal letter from V/S: J. Buenaventura Santos N., Administrador plus 3-color pennant. Airmail in 22 days for Spanish report and SASE (used). Date only given in letter. (Calkin)



*Radiotelevision Dominicana* 4 5

Av. Dr. Tejada Florentino No. 8 - Santo Domingo, República Dominicana - P. O. BOX 989 - Tels. 689-2120 hasta el 689-2124 - CABLE: RATDO

TELEX: 3460236

Santo Domingo, D.N.  
Noviembre 4, 1972.

Señor  
Dave Megyesy,  
428 Ewing Ville Rd.  
Trenton, N.J. 08638.  
U.S.A.

Estimado señor:

Le agradecemos a usted vivamente su atento reporte sobre nuestras emisiones de onda corta a través de nuestro transmisor de 50,000 vatios, frecuencia 9505 Khz., banda de 31 metros.

Le invitamos a seguir en sintonía con nuestras emisiones principalmente en el período de 5:p.m. a 12 de la noche, con una programación variada y amena, además a las 6:a.m. cuando transmitiremos nuestro primer noticiario para todo el mundo.

Atentamente,



FB.nd  
es

ECUADOR: HCJB, Quito, 11745, photo card of the Quito compound at night; 1 month sea w/full data. (Eichenhorn) 15115, Galapagos Island card; no IRCs (Barto) 35 days air for 2 IRCs. (Wiseberg)

Radio Centinela del Sur, 5035, pleasant Spanish letter from V/S: Hernan Coronel V., who is a stamp collector wishing to exchange flora and fauna stamps. Also enclosed Christmas card and some stamps. 6w air for f/up Spanish rpt w/2 IRCs; total time: 25 weeks. (Foster)

Radio Pastaza, 3315, letter and photos of local indians from V/S: Luis J. Coka S., Administrador. 1 month airmail on f/up. (Dexter)

EGYPTIAN ARAB REPUBLIC: Cairo, 9805, full data card and sked in 2 months airmail. (Howard)

EL SALVADOR: Radio Nacional, YSS, 5980, card w/frequency and signature only; 2 months for Spanish report and 1 IRC. (Carlsen) 5 weeks air plus personal letter in Spanish from Director; mint stamps plus rpt in Spanish sent. (Roberts)

ENGLAND: BBC, London, 9580, Thames card in 22 days. No IRCs. (Self) 6110, red/white fiftieth anniversary card in 46 days seammil for English p/card report. (Willshaw) special card for Nov. 9 World Radio Club transmission; 15070, plus pennant for correct answer in WRC competition. (Carlsen)

ETHIOPIA: ETLF, Addis Ababa, 11890, full data card w/frequency; 110 days air for 2 IRCs. Also sent sked. (Wiseberg)

FRENCH GUIANA: Cayenne, letter in 3 weeks for French report and 1 IRC. (Robinson)

FINLAND: Helsinki, 15185, headphones map card in 2 weeks for 2 IRCs. (Yamron) 15 days air for 2 IRCs. (Austin) 21 days w/sked; no IRCs. (Rydell)

GABON: Libreville, 4777, yellow/brown OCORA card w/full data in 31 days air for 1 IRC for report in English. (Mayer)

GALAPAGOS IS.: HCVGS La Voz de Galapagos, blue map card with all data and personal letter from Jorge Narvaez for 3520 kHz reception. 19 days air for mint stamps, 2 IRCs and English rpt. Thanked me for the stamps, but said IRCs not rovd and that they were probably stolen in Guayaquil. Sr. Narvaez is very interested in geography and would probably enjoy hearing about our DX experiences. (Churchill) 3½ weeks for English rpt and 3 IRCs. (Ferry)

GAMBIA: Radio Gambia, 4820, mimeo veri letter in 32 days for report in English w/ mint stamps. (L. Marshall)

G. D. R. Radio Berlin International, card in 80 days seammil (Nebron)

G. F. R. RFE, card w/out frequency notation in 6 weeks from NYC address for 5985 kHz. (Kamp)

GREECE: NHBI, 15345 kHz, card and sked in 3 weeks airmail for 1 IRC. (Linsenmeyer)

GUYANA: GBS/Action Radio, 3290, form letter in 17 days air for 3 IRCs. (Wallace) 13 days air by letter (Fabian) 16 days from V/S: M. A. Rayman. (Imbert)

HAITI: La Voix Evangélique d'Haiti, 4VE, 6120, folder photo card w/full data, showing the Vertières Memorial near Cap-Haitien. V/S: Mrs. Edna Beachy, QSL Secretary. 3 IRCs. (Calkin) 15280, card in 2 months for this 350 watt channel (Carlsen)

HAWAII: WVVH, Kekaha, Kauai, 15000, indian/island card airmail in 15 days for 11-cent stamp (returned). Date and frequency given and signed by V/S: C. L. Trembath, E-I-C. (Calkin) 10 days for no IRCs (Archard)

HONDURAS: La Voz Evangélica, HRVC, card in 39 days for mint stamps. V/S: Ethel R. Fleming. (Herson)

Radio Suyapa, 6125, full verification card, 5-color 34th anniversary pennant; 2½ weeks air for 1-IRC and Spanish report. (Reeves)

Radio Progreso, 4920, Spanish form letter from V/S: Jerry E. Tolle; 3 weeks airmail after f/up w/mint stamps. (Howard)

HUNGARY: R. Budapest, 15165, card in 5 months (Eichenhorn) 6175, orange card in 3 wks for no return postage. (Carlsen)

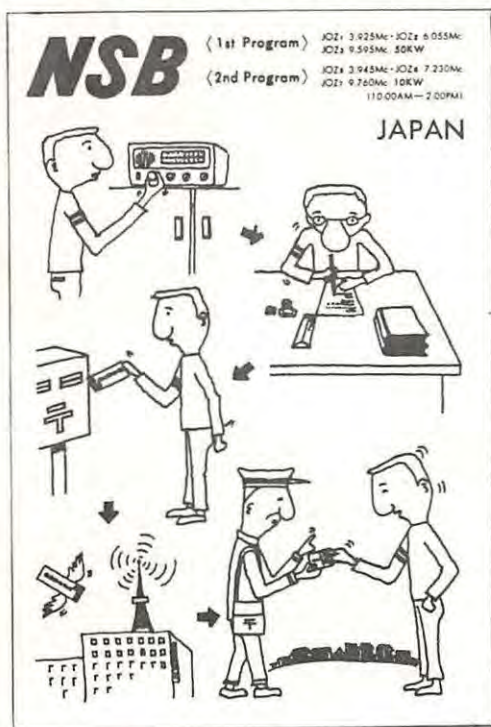
INDONESIA: RRI Ambon, 4839, blue/yellow card w/full data and letter from V/S: A.W. Rakimin; rovd direct fm station in 5 w. air for English report. No IRCs. (Foster)

IRAN: Teheran, 15084, full data card w/sked and literature in 8 weeks air for 1 IRC. (Linsenmeyer)

IRAQ: Baghdad, 15400, map/bridge card with incorrect freq. listed of 9745 kHz; plus 4 tourist folders; station emblem by-seamail in 116 days; 1 IRC and p/o sent (Palmer)

ISRAEL: Jerusalem, card w/old pic of Jerusalem in 25 days airmail w/sked (D'Angelo)

ITALY: RAI, 9575, antenna card w/full data in 7 weeks seamail for no IRCs. Sked came later. (Estes) 15400, 1 month (Barto) 11610, full data card in 5 months sea (Wiseberg) 2 reports netted 4 RAI pennants, but no QSL (Howard) sked air (Pino)



NSB'S QSL SHOWS HOW TO GET A QSL

JAPAN: NSB, Tokyo, 7230 kHz, card in 2 weeks airmail w/full data. No return postage sent. (Eichenhorn) veri cartoon card as shown, 2 skeds but in Japanese; 1 1/2 weeks air. No IRCs. (Reeves) Tnx for sending QSL Scott (Ed.)

NHK, Tokyo, special 35th anniversary card in 32 days plus sked (Dushane) 11800, card in 2 wks for no return postage (Carlisen) 17 days air w/newspaper, p/p/c, sked. No return postage. (Imbert) 15445, card and green pennant in 15 days air for their aerogramme report & no IRCs. (Willshaw) 15105, full QSL in 23 days; no IRC (Rydell) 53 days, plus sked (Cole) 3 months (Lobdell) 17825, folder w/pennant (Self)

JORDAN: Radio Amman, 9560, p/p/card of Jerusalem w/full data on reverse; 22 days air for 1 IRC. Received sked and cancelled stamps too. (Mayer) 7155, Dome Of The Rock card in 4 wks for 1 IRC; by airmail (Barto)

KAZAKH S.S.R. Radio Alma Ata, 10530 full data p/p/card verie written in Russian via airmail in 49 days; for English report and no IRCs (Norko)

KOREA (REP): Seoul, 9640, Vase card w/sked & pennant in 3 weeks air for 1 IRC (Linsenmeyer) 1 month; no IRCs (Jamison) 3 weeks w/pennant for 15335 kHz (Roberts) 2 months (Squires)

LITHUANIAN S.S.R. "Radio Vilnius" programme, 9610, quaint card of birds in tree; 2 months; no IRCs. (Rydell) 45 days w/date, time and freq. (D'Angelo)

LUXEMBOURG: Radio Luxembourg, 6090, antenna card in 5 weeks; no IRC (Fabian) 143 days w/full details. (D'Angelo)

MALAGASY REPUBLIC: Radio Nederland, Talata, 11730, card airmail in 1 month (Eichenhorn) 2 months air for 2 IRCs (Wiseberg)

MALAWI: Lakeland Radio, 5995, personal letter with all details from V/S; G. K. Macdonald, C. E., who is, incidentally, also CE for MBC. 6weeks air after f/up; total time 23 weeks. 2 IRCs sent with each report. (Foster)

MARTINIQUE: CRTF, Fort-de-France, card w/date only; 2 weeks for 2 IRCs; French report and p/card sent. (Reeves) 2 weeks for French report and IRC (Robinson)

MAURITIUS: MBC, 9710, red/blue/yellow/green card in 7 weeks for 1 IRC; airmail (Barto)



## RADIO UNIVERSIDAD

XEUN 860 Kc/s. Onda larga.

XEYU 9600 Kc/s. Onda corta.

XEUNFM 96.1 Mgc/s. Frecuencia Modulada.

De las 8.00 a las 1.00 A.M. la mejor música.

Sr. Gregg A. Calkin  
Tercer Secretario y Vice-Cónsul  
Embajada de Canadá  
Melchor Ocampo 463-5  
México, 5, D.F.

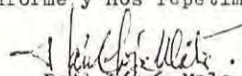
Estimado señor Gregg:

Con la presente doy a usted una excusa por no haberle podido responder sus atentas comunicaciones de fechas anteriores, debido a un exceso en el volumen de nuestra correspondencia.

Con relación a los datos que consigna en su carta, de las transmisiones de Radio Universidad el 24 de febrero de 1972, tengo el agrado de comunicarle nuestra confirmación a su reporte que informa sobre anuncios, señales y programas - transmitidos entre las 10.00 y las 11.01, a.m., del día -- antes mencionado.

Por otra parte, hemos ya enviado a nuestra oficina técnica las características de recepción que usted obtuvo, las que son de gran utilidad para la verificación y control de nuestra señal.

Agradecemos ampliamente su informe y nos repetimos como siempre, a sus órdenes.

  
Raúl López Malo  
Jefe de Programaciones.

Ciudad Universitaria, D.F., a 3 de mayo de 1972.

MOZAMBIQUE: Radio Clube Moçambique, 11780, multicolor p/card of station with full data in 26 days air for English report and 3 IRCs. (Willshaw) 11 days for 1 IRC, showing studio building and statue. (Robinson)

NETHERLANDS: Radio Nederland, Hilversum, 11730, card in 3 weeks air (Eichenhorn) 11 days airmail; no return postage (Imbert)

NETHERLANDS ANTILLES: Radio Nederland, 11730, card in 11 days airmail for no IRCs (Estes) 2 months; no IRCs; Happy Station QSL (Barto)

Trans-World Radio, Bonaire, 9735 kHz, studio QSL in 2 months (Barto)

NEW HEBRIDES: Radio Vila, 3945, white/black card w/full data and personal letter in 2½ weeks air fm V/S: John McNeil, Broadcasting Officer. Letter states my report was only one they received from Japan over the past 2 years. IRCs sent but returned. (Matsaura)

NIGERIA: Voice of Nigeria, 7255, full data green and white card in 7 weeks for 2 IRCs. (Squires)

NEW ZEALAND: Radio New Zealand, 9540, full data card in 82 days (Wiseberg) 87 days w/tourist info (Hamilton) 3 months (Eichenhorn) 26 days air; sked and tourist info. (Imbert) 15 weeks (Linsmeyer)

NORWAY: Radio Norway, Tromsø, 7240, full data winter night card in 25 days air for 2 IRCs. Also programme sked and small flag of Norway. (Wiseberg)

Radio Norway, 15175, p/p/card w/full data and sked in 6 weeks. (Rydell) 59 days seamail for English report and no IRCs. (Willshaw)



TWR'S TRANSMITTERS ON  
BONAIRE

PAPUA: Fort Moresby, 4890, blue map card in 4 weeks air; no IRC. (Fabian) 4890, 29 days air; 2 IRCs (Imbert) 9520, full data yellow/blue map card in 1 month for 1 IRC. (Squires) 2 months for 1 IRC (Carlsen)

Radio Madang, 3260, aerogram signed by V/S: Philip N. Charley; 2½ wks for 1 IRC and SWL card. (Jamison)

Radio Western District, 3305, form letter with full data from V/S: N. Bosly in 1 month airmail for English report and 3 IRCs. (Howard)

PERU: Radio Atlántida, vague thank-you letter in Spanish plus pennant in 13 days airmail for report in Spanish, mint stamps and p/card. (Reeves)

Radio del Pacifico, 9675, stencilled confirmation letter in English from V/S: Lorne Kliever, C. E. and a Canadian, plus card showing cross and microphone over a map of Peru; with full details provided. 3 months air after f/up in Spanish w/2 IRCs. Total time 7½ months (Foster)

PHILIPPINES: FEBC, 15440, card and sked in 13 weeks air for 3 IRCs. (Linsmeyer) 11920, world card w/full data in 2 months for 3 IRCs. (Carlsen) 11890, card in 3 mos. (Eichenhorn)

VQA, 15290, 30th Anniversary antenna card w/full data except site (ie Poro or Tinang). V/S: Darlene Mason in 25 days seamail. (Willshaw) 17735, 2 weeks. (Barto) 11930, 1 month (Eichenhorn)

POLAND: Radio Warsaw, 6035, N° 1 mapcard in series and personal letter from V/S: Lech Stanislawski. 30 days air for English report and no IRCs. (Willshaw)

PORTUGAL: Portuguese State Ministry of Information and Tourism, via Sines, 9670, colorful card showing blossom tree, with full details. 5 months air for no return postage. Address: SEIT, Apartado 2495, Lisbon. Programme: 2000-2015. (Poeter)

IRA Radio, via R.T.E./Sines, 9670, blue card w/all data in 20 days airmail, for 1 IRC. Sked and pennant also received. (Imbert)

QATAR: Doha, 9570, attractive white card w/map of Gulf on one side, verie message on other. 3 months in all, 2½ weeks after f/up w/English report and 3 IRCs. (Ferry) 5 weeks airmail for 1 IRC. 9570 kHz. (Barto)

ROMANIA: Radio Bucharest, 15250, multicolored card showing Romanian folk architecture in 50 days. (Self)

RUSSIAN S.F.S.R. Radio Moscow, Gorkiy, 17755, card w/site for the African Soc, plus personal letter from Tamara Shulga and postcards. (Plum)

Radio Moscow, Blagoveschensk, 9580, card for WCNA Soc w/site.

(d'Adolf)

Radio Moscow, Komsomolsk-on-Amur, 6060, microphone/coat of arms card in 27 days w/site indicated. (Patterson)

"Radio Moscow" programme, 11900/9680/9650/9530/7290, cards w/sked in 2 months (Barto)

Radio Peace and Progress, card, sked and booklet in 4 months w/date, time and freq. Given. No return postage (Reeves) 3 months for 15200 (Carlsen)

Radio Station Rodina, 15425, card in 6 months, 3 months after f/up from Moscow for Rodina programme. See QSL below. (Hamilton) Tnx, Alan. (Ed.)

Уважаемый Alan Hamilton

Это подтверждение Вашего сообщения о том, что Вы слушали передачу Московского радио о

This verifies your report on the reception of Radio Moscow's broadcast for of Radio Station Rodina

Дата 29.4.1972  
Date  
Время 19.00 - 19.30 GMT  
Time  
Частота 15425 KHz  
Frequency

РАДИОСТАНЦИЯ «РОДИНА»

RWANDA: Deutsche Welle, 15380, map card, sked and Olympic info in 3 3/4 months. Full data. No IRCs. (Jamison) 5 months for 11905 (Squires)

RYUKYU IS: VOA/Okinawa, 7165, antenna card w/date and freq. in 1 month. No return postage. (Imbert)

SENEGAL: Radio Sénégal, 4890, stringed instrument card in 3 weeks for 1 IRC (Carlsen)

SEYCHELLES: FEBA, 11955, blue/white card plus sked (Seymour) 11955, full data card in 35 days for 2 IRCs. (Wiseberg)

SINGAPORE: Radio Singapore, 5052, apartment house card in 51 days seammil w/sked. (Nebron)

SOUTH AFRICA: Radio RSA, 9560, card w/sked, pennant and tourist info; 11 days for 1 IRC. (Austin) 13 days; no IRC. (Schwartz) 11970/21535; photo card in 3 weeks seammil. (Eichenhorn) 11970, full data color card in 25 days air for 1 IRC. (Howard)

SPAIN: RNE, 5985/6065/6140/7105/9570, antenna cards in 3 weeks w/full data. (Barto) 11925, card in 75 days for English report (Willshaw) 6140, 10 weeks (Rydell)

Radio Liberty, 7295, map card and pamphlet on station in 24 days air for IRC. (Palmer) 17895, colorful map/microphone card w/site; full data (Jamison)

SPANISH SAHARA: Radio Sahara, 4627, QSL letter in Spanish w/no data via airmail in 21 days for NASWA Spanish report and 2 IRCs. V/S: Federico Campos Alvarez. (Noroko)

SRI LANKA: Radio Ceylon, 15120, woman sewing card in 81 days air for 2 IRCs. (Nebron)

SWEDEN: SCB2, Karlsborg, 15295, verification letter in 14 days airmail for 2 IRCs

for test of new SWBC xmt. See next page for QSL! (Dushane) Very good OM, Tnx (Ed.)



CENTRAL ADMINISTRATION OF  
SWEDISH TELECOMMUNICATIONS

Broadcasting Office

Person in charge:  
Mr G Borgman

Postal address:  
S-123 86 FARSTA  
Sweden

Date

4th January, 1973

Your communication of

Mr Richard L. DuShane  
7227 Bennett Lake Road  
FENTON, Michigan  
U.S.A.

Dear Mr DuShane,

We thank you for your reception report concerning a special transmission which was made for the purpose of testing a new 500 kW short-wave broadcasting transmitter SCB2 located at Karlsborg.

Your report has been found to be correct and is hereby verified. Sorry, no verification card is available.

Date of reception . . . . . 16th December, 1972  
Time GMT . . . . . 1400  
Frequency kHz . . . . . 15295  
Transmitter power kW . . . . . 390  
Azimuth of maximum radiation in degrees 270

With best wishes,

*G Borgman*



□ Stockholm The capital of Sweden  
● Helsingfors Short wave transmitting station  
● Karlsborg Short wave transmitting station

SWEDEN: Radio Sweden, 6175, full verification on colorful card of northern lights w/sked in 1 month; no IRC. (Rydell) 4 3/4 months; no IRCs. (Jamison) 15240 kHz, usual full data card in 3 weeks airmail for English report and 1 IRC. (Howard) 8 1/4 x 11-1/2 green certificate from UN, R. Sweden and DX-Alliansen for collection of info on the UN Conference on the Human Environment. (Jamison)  
SYRIA: Damascus, 9655, full data card in 2 months 17 days after 2nd f/up. Reply by air for 3 IRCs. (Rippel)

TAHITI: Papeete, 11825, mermaid card w/sked in 8 months airmail for 2 IRCs. (Linsenmeyer). 15170, full data mermaid card in 6 months for English report and 3 IRCs. (Squires) 4 months seemail (Dushane) 6 months for 3 IRCs. (Seymour) 190 days for 2 IRCs and French report. (Hardester) 8 months for an English report (Jinkerson) 3 mos. for NASWA French report and 2 IRCs. (Noroko)

TAIWAN: VOFC, 17720, card and information on Taiwan in 4 1/2 weeks for 1 IRC (Carlsen) 47 days air for English report and 2 IRCs. (Willshaw)

TIMOR: Emissora de Radiodifusão de Timor, 2 yellow cards with full data in 10 months and 4 weeks air for reports on 3268 in Feb. and on 3668 in Nov/72. Rpted in Port. (Matsuura) elegant brownish-yellow card in 5 weeks (Perry) 16 days air for English report w/3 IRCs. (Poster) 24 days air for mint stamps and NASWA Portuguese rpt. (Churchill)

TURKEY: TRT, 15195, card in 204 days seemail w/picture of 5 native dancers. (Wickland) 5 months for 2 IRCs. (Yamron) 129 days w/full data (Schultz) 4 1/2 months (Plum) 120 days airmail for 15195 (Mayo) 5 weeks for 1 IRC (Carlsen) 6 months for 1 IRC (Herson)

TUNISIA: Tunis, 11900, p/card in 8 weeks (Barto) 6195, card w/all data in 1 1/2 months for 2 IRCs. (Orcutt) 10 weeks air for 2 IRCs (Sellers)

UKRAINIAN S.S.R. "Radio Kiev", 7150, card in 3 months w/out specifying site. Full data is given (Eichenhorn) 11900, 2 cards and xmas crd (Fino)

Radio Moscow, Ivano-Frankovsk, 9660, card in 5 1/2 weeks air; all data, sked, letter and p/cards (Sellers) 6175, card for UK Sce w/Vinnitsa site (d'Adolf)

U.S.A. Greenville, 5995, card in 2 weeks (Barto) 5 months (Hafer)

Delano, 17765, card in 2 weeks (Barto)

WNYW, New York, 9690, blue card in 2 weeks (Barto) 15 days (Willshaw)

KGBI, 15280, full data card w/sked and pennant in 15 weeks. (Noroko) blue world card w/all details in 3 months for no return postage. (Hafer) 3 months by card and paper pennant (Sellers) 4 weeks (Carlsen) 2 1/2 months, card and paper pennant. (Eichenhorn)

U.N. Radio, Greenville, 15410, card in 2 weeks (Eichenhorn) card in 9 days w/sked (Austin)

WVW, 10000, card in 3 weeks (Eichenhorn) 15000, 2 weeks (Eichenhorn)

La Voz de la OEA, 15160, form letter w/tnx, no-data, plus sked for Spanish rpt and 11-cent stamp, in 18 days air. Returned for data. Address: 17th Street and Constitution Ave. NW, Washington, DC 20006. For Greenville xmt. (Galkin)

UPPER VOLTA: RTV Voltaique, Ouagadougou, 4815, brown/yellow/white map of Africa card w/full data; airmail in 24 days for NASWA French report and 2 IRCs. 6th try. (Noroko)

UZBEK S.S.R. Radio Tashkent, 15415, Chimes Tower card, beautiful p/card; station pamphlet, form letter, via air in 26 days for 1 IRC and p/p/card. (Palmer) 7175 kHz, card in 40 days w/site (L. Marshall) for R. Moscow (Ed.) 9600, card in 1 month (Orcutt) 11730, card in 70 days (Mayo)

VATICAN CITY: Radio Vatican, 9645, antenna card w/all details in 7 1/2 weeks airmail. 3 IRCs. (Wallace)

VENEZUELA: Ecos del Torbes, 4980, Spanish letter/stated they have no pennants now, but will send later. V/S: E. González de Chacón, in 10 weeks airmail for a Spanish rpt and 1 IRC. (Howard) 12 weeks air for Spanish report w/2 IRCs. (Poster) 3 months w/ltr giving 5990 as additional freq. but not mentioning 31 mb (Field)

Radio Angostura, 6119, nice Spanish letter, apologizing for long delay in answering plus a new large pennant from V/S: Sinar Guerra Madrid, Director. 1 year air mail for a Spanish report, Christmas card and mint stamps. (Howard) 55 weeks for a registered Spanish rpt (Lobdell) 15 weeks air (Poster)

# RADIO BARQUISIMETO

PRESTIGIO INTERNACIONAL DE LA RADIODIFUSION VENEZOLANA

**YVMR 690 Kc/s**  
ONDA LARGA  
50 KW



**YVXJ 9.510 Kc/s**  
BANDA INTERNACIONAL  
de 31 metros. -15 KW

**YVMQ 4.990 Kc/s**  
ONDA CORTA  
15 KW

**YVMR/FM 96,9 Mc/s**  
MODULACION DE FRECUENCIA

APARTADO POSTAL 567 y 576

BARQUISIMETO - VENEZUELA

VENEZUELA: Radio Barquisimeto, 4990, full detail card in 1 month seamail; no IRCs. (Estes) Tnx Steve, for showing us the card. (Ed.)

Radio Tropical, Spanish letter in 5 wks air for Spanish report w/mint stamps. V/S: Angelo Grasso, Presidente, who also sent 'gud luck' shamrock pennant. (Reeves)

Radio Popular, 4810, large folder card in 10 months seamail (Sellers)  
Radio Rumbos, 4970, multicoloured p/card w/complete data and info about the station. 6 months air for English report w/1 IRC. (Foster) 9660, color p/p/ord of Caracas w/full data in 2 months air for mint stamps (not used) and English rpt. QSL is in English. (Sellers)

VIETNAM (DEM REP): VOV/Hanoi, 12025, full data blue card w/pic of girls in flower bed; sked also; 4 weeks air. (Johnson) paper QSL, stamps and "Vietnam Courier" in 107 days sea; (Palmer) 5 months, 1 week for 15008 (Jamison) 15005, paper QSL w/3 mint stamps in 125 days. (Hamilton)

VIETNAM (REP): VTVN, Saigon, 6165, full data card and letter in 40 days for an English report and 1 greenback. (L. Marshall)

WINDWARD IS: Radio Grenada, 5015, dittoed letter w/date and freq. in 1 month for IRC; V/S: Allan Palmer, Technician. (Plum) 2 weeks (Yamron) 38 days (Herson)

YUGOSLAVIA: Radio Belgrade, 9620, folder card w/full info in 10 weeks. (Fabian)

73s and sincere tnx to this month's contributors:

Steve d'ADOLF (NJ), Malcolm ARCHARD (MI), Marty AUSTIN (CT), Samuel BARTO (CT), G. A. CALKIN (ONT.), Bob CARLSEN (OH), J. COLE (CO), Charles CONNER (LA), Richard D'ANGELO (NY), Gerry DEXTER (WI), Richard DUSHANE (MI), S. W. EICHENHORN (MI), Steve ESTES (VA), George FABIAN (NY), Marlin FIELD (MI), Henry FINO (NY), David FOSTER (AUSTRALIA), Michael HARDESTER (CA), Gary HAFER (PA), Alan HAMILTON (ONT.), Baxter HENSLEY (AR), Eric HERSON (OH), Ron HOWARD (MD), Martin IMBERT (VA), Dan JAMISON (VA), Bob JINKERSON (MS), D. JOHNSON (CA), Steve KAMP (CA), Albert LINSNEMEYER (IL), Chris LOBELLE (MA), Larry MARSHALL (CA), Hiro MATSUURA (JAPAN), Alan MAYER (IL), Stanley MAYO (ME), Larry NEBRON (CA), Frank ORCUTT, Bob NORCO (CT), C. P. PALMER (LA), C. R. PATTERSON (CA), Ralph FERRY (IL), Wm. J. PLUM (NJ), Scott REEVES (MD), Chuck RIPPEL (VA), Jim ROBERTS (MAN.), Daniel ROBINSON (PA), Donald RYDELL (NY), Richard SCHWARTZ, (DE), Charles SELF (MN), Harold SELLERS (ONT.), Woody SEYMOUR (NC), Steve SQUIRES (IL), Steve WALLACE (PA), Donald WICKLAND (WI), Fred WILLSHAW (SC), Bill SCHWARTZ (PA), Michael WISEBERG (ONT.), Larry YAMRON (PA).

Until March... *AK*

# LISTENER'S Notebook!

Dan Ferguson  
1521 Smith Road, Apt. 7  
Charleston, W.Va. 25314  
U. S. A.  
Phone: (304) 346-5738  
Deadline: 18th of month

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Each month this editor receives numerous DX bulletins from the United States and from overseas. Also in the mailbox at times are questions concerning other clubs - usually requesting information as to which are the best ones. That is a question the DXer must decide for himself. It all depends on what one wants from a DX club. Some clubs will be excellent for one DXer and not of much interest to another. Even the clubs which specialize in one aspect will not be the best club for everyone in that speciality. (And this includes NASWA, too! We recently received a letter suggesting that we really ought to cut the dues by half, considering the content of FRENEX. Rather deflating to the ego, hi!) The following is a list of the clubs from which we receive bulletins on a regular basis....

## NORTH AMERICAN CLUBS:

AMERICAN SWL CLUB, 16182 Ballad Lane, Huntington Beach, CA 92649. Offset printed bulletin in magazine format, covers SWBC, MW, UTES.

CANADIAN INTERNATIONAL DX CLUB, 169 Grandview Ave., Winnipeg 16, Manitoba, Canada. Monthly mimeographed bulletin covers SWBC, Utility, FM/TV DX.

CLUB DES DXERS DU QUEBEC, C.P. 34, Sillery, Quebec 6, P.Q., Canada. Mimeographed monthly bulletin covers SWBC, MW DXing.

INTERNATIONAL RADIO CLUB OF AMERICA, 6059 Essex St., Riverside, CA 92504. Another speciality club covering MW only.

NATIONAL RADIO CLUB, Box 99, Cambridge, MA 02138. Yet another speciality club. This one covers MW only in its offset printed magazine format bulletin.

NEWARK NEWS RADIO CLUB, P.O. Box 539, Newark, NJ 07101. Mimeographed bulletin covers SWBC, Utilities, Amateur, FM-TV, MW.

SPEEDX, P.O. Box 321, Santa Ana, CA 92702. Offset printed, magazine format bulletin covers SWBC, Utilities. (Speedx just announced the availability of a little pamphlet on verifications. Send a self addressed stamped envelope (large) and ask for "BIP-1".)

## OVERSEAS CLUBS:

AUSTRALIAN RADIO DX CLUB, P.O. Box 227, Box Hill, Victoria 3128, Australia. Mimeographed monthly bulletin covers SWBC, amateur, MW, Utilities.

BENELUX DX CLUB, P.O. Box 2027, Den Bosch 4004, NEDERLAND. Offset magazine covers SWBC, MW, Utilities, VHF, TV.

CIMBRER DX CLUB, P.O. Box 32, DK-2930, Klampenborg, Denmark. Mimeographed bulletin covers SWBC, MW, UTES.

DANISH SHORTWAVE CLUB INTERNATIONAL, DK-8382, Hinnerup, DENMARK. Mimeographed bulletin covers SWBC, MW, LW, Clandestines, PTP.

(We'll finish this list another time, as we need some space for the following.)

HDQ NOTE: We are in need of DXers to organize band surveys of certain of the SWBC bands, both the tropical bands and some of the international broadcast bands. Also needed are DXers to help those in charge of a particular band compile the survey. HDQ can supply suggestions on how to go about it, and can help design some forms for use in making the surveys, and print those forms and ship them to the DXers who are working on the band surveys....The surveys, because they will be useful over a period of time, will be made available on 8 1/2 x 11 inch paper, double spaced, at a small charge. (Free to those who work on them.) Write HDQ if you want to help!!

# LOG REPORT

NASWA LOG REPORT  
P.O. Box 8452  
S.Charleston, W.Va. 25303

Deadline: 12th of the month

- 1820h VENEZ R.Aeropuerto new harm of 910MW, 0410 YL SS ads; later date at 0413, still there 0700, seems AN. (Hauser) YVRQ, 2 x 910
- 2010h MEXICO XETOR, Torreón Coah, 1/8 0050 Mex mx, 0057\*, 3x670; also 1/8 at 1300 w/ID, RCN plug, "LV Coahuila" never hrd, it's "XE-tor"(Hauser-TX)
- 2020h UNID, SS mx, SAH noted 0013; XEYK-1010 Torreón Coah hrd last yr(Hauser)1/8
- 2090h GUATEMALA TGSL, R.Sol, Santa Lucía Cotzumalguapa, 2x1045, 1/4 0040; sometimes makes it on 3135(=3x1045) too. (Hauser-TX)
- 2120h UNID EE tlk 1/8 0416, probably 2x1060(Hauser-TX)
- 2140h COLOMBIA HJAH, Emisora Atlántico, new harm, 2x1070, 1/4 0401 mx, ID, TC; cf 9811 (Hauser-TX)
- 2160h MEXICO XBCN, Irapuato Good to Poor at ck 1/4, 0040; 2x1080(Hauser-TX)
- 2182 UNID Someone QRMing the vital ship distress fgy w/JJ mx 1/2 0508 & 1/3 at 0403, (Hauser-TX)
- 2200h NICARAGUA La Líder presumed earthquake victim; no longer hrd(Hauser-TX)
- 2240h MEXICO XETR, R.Ritmo, SLP; 2x1120; 1/4 0039 slogan ID, yelled ads(Hauser-TX)
- 2310h EL SALVADOR YSCF, Ondas Orientales, San Miguel, 1/4 0041, 2x1155(Hauser-TX)
- 2340h GUATEMALA TGRSL, R.Recuerdo, Quetz., 2x1170, 1/8 0055 marimba, SS(Hauser-TX)
- 2380h COLOMBIA HJCV, R.Cordillera, Bogotá, 2x1190; 1/4 0408 CCI, 0517 SAH w/other; 0620 EST TC, 0633 TC, ID, mx; new as harmonic. (Hauser-TX)
- 2390 GUATEMALA TGDF, R.LV de Atitlan; SS, marimba mx, TC, IDs, poor, extreme noise (Patterson-GA)0142 SS tlk by m., sounds like lesson of some sort(Henderson-MD) Generally weak but almost nightly to 0330± s/off(Hoogerheide) Henderson's was 1/4, Patterson's was 1/1.
- 2401 COLOMBIA UNID 0237-0456\* LA mx, SS. IDs sounded like Radio Sentenna, Emisoras.. good audio.(Tichscherer-WI) On 2400, UNID, prob a harmonic, IDs as R.ReLoj, Loud but distorted sig. Lively mx, SS. Ideas? Prob a Colombian. 0300-0400(Hoogerheide) See Jan issue. This first thot YV, due some apparent IDs; later hrd here with Colombian anthem. Presume harmonic. (Ferguson-WV)
- 2450 HAITI 4VEH; 1/8 0025 EE, rel, heavy QRM(Henderson-MD)
- 2450 PAPUA/N.GUINEA R.Mount Hagen; 1145-1158 fade, 1/7; island mx, old R&R, OM in Pidgin 1148. No sign of 4VEH this day. (Ralphus-IL)
- 2500h DOM.REP. HIBC, LV Progreso, S.F.Macorís, 1/1 0410 ID, fair, SAH w/WVV(Hauser-TX) Also 1/8, 1115, 2x1250(Hauser-TX) UNID 0147, 1/4, under WWV, mentioned YV. (Henderson-MD) Dom.Rep. has been here off & on for 3-4 years. (DF)
- 2500 S.AFRICA ZUO Johannesburg under WWV at 0215 w/CW ID & time(Heutte-DG)
- 2450h MEXICO 1/5, 1320 SS mx, talk, 2 stns, one of which is likely XENX, Mazatlán Sin, hrd last ys here. 2x1270(Hauser-TX)
- 2560h UNID, prob 2x1280; SAH, indicating 2 stns here, 12/20 0421, 1/1 0547, and 1/8, 1120 ranch mx, 1136 acknowledged letter, UTE het 2558; 1149 230/min SAH (Hauser-TX)
- 2600h MEXICO XE--, León Gto, 1/5 1313 lcl tire ad o/China, 3-min fast TC, 2x1300; Also, 1/4 0042 usual mix of at least two harmonics. (Hauser-TX)
- 2679h MEXICO likely due late hour, 1/5, SS ads 1318, SAHs, 2x1339½ (Hauser-TX)
- 2680h HONDURAS R.ElMundo, 12/20 0405 barely above other harmonics, ID, 2x1340; far below its normal splendor. 1/6 0540 Honduras tlk; 1/8 1132 ID, peaked 1145 (Hauser-TX)
- 2700h COLOMBIA? 1121, 1/8, SS vocals, prob one of 2 Colombians, 1145 gone, checking w/Tuluáif/o time(Hauser-TX)
- 2800 CHINA Fukien Front Stn; 1122 lang by woman, opera mx(Sellers)
- 2820h MEXICO likely due late hrl 1/6 1307 w/7:09 TC, SSads, polio PSA; XEKG, Radio Jalisco, Guadalajara, 2x1410 was IDd here in 1968.(Hauser-TX)

- 2850t N.KOREA Pyongyang; 1102 KK talk, good(J.Kolb)
- 2880h COLOMBIA R.Reloj de Tuluá s/b widely hrd, perhaps even overseas. Runs AN, and has frequent IDs; noted 0711, 12/26; 2x1440. (Hauser)
- 2898h GUATEMALA TGMS, R.Nac., LV de Mazatenango, \*1155, 1156 NA, s/on 12/19(Hauser-TX)
- 2900h MEXICO XEJD, R.Tropicana, 2x1450, new harm; 12/19 1204 LA mx, ad, ID(Hauser-TX)
- 2909h NICARAGUA YNTJ, Ecos de la Brumas, 2x1454½, 1/1 0033 at no strain lvl(Hauser-TX)
- 2940h MEXICO XESM, R.Fiesta, México DF, 1/4 0043, regular AN harmonic (Hauser-TX)
- 2940h USA KLCL, Lake Charles, LA likely; 1/2 2236 w/XESM w/SAH, 2x1470 IDd before. I visited the stn in Dec, advising them of harmonic. DXers please check 2940 during NNRC DX test, sked Sat 24 Feb 0800 on, as may use day pattern(Hauser-TX)
- 2950h NICARAGUA YNAG, R.Cosigüina, 1/4 0035 quake emergency net, //750, 2x1475. Also noted 1/1 0028, 0145 seemed //1475(Hauser-TX)
- 2958h MEXICO XETKR, Monterrey NL, 1/6 1248 "TKR" ID, 2x1479, also 1/8 1230 (Hauser-TX)
- 2960h MEXICO XEPR, 1/5 1214 IDs, 2-min slow TCs, 2x1480; 1/4 0044 w/2 SAH(Hauser-TX)
- 2980h MEXICO XEMK, R.Mexicana, Huixtla Chis, 1/8 1156 w/on, 2x1490; other harm hrd from 1148. 1/2 at least 2 stns mixing, then covered by Oakland Aeradio(Hauser-TX)
- 2984h GUATEMALA TGCO, LV del Trópico, Coatepeque, new harm from 1492, nominal 1490; 1/8 1213 marimba, 1214 CST, ad; also 1/5 0347-0430, 1228-1240(Hauser-TX)
- 2970h GUATEMALA Mast be 3x990, but problems here; 1/5 0250 M&W; IDs every ¼ hr, but unreadable except for 950 fgy. 0557 long Guat NA, 0601 off. 1/5 1215-1240 f/o w/arithmetic lesson. Maybe TGAF, R.Indiana, Mazatenango, nom. 950(Hauser-TX)
- 3016 N.KOREA Pyongyang JY 1116, 12/13(J.Kolb) 1/5 1240-1300 ID per Bundy's rpt Could this be 3rd harm of Hamburg, 1005v? Pacific area DXers pse check//(Hauser)
- 3030h NICARAGUA YNCZ, R.Progreso, León, new harm from 1515; 1/4 0015 SS tlk, mx, 0023 proclamation abt "el área del desastre"; //750 Estación X net central(Hauser-TX)
- 3040h COLOMBIA HJLQ, R.Mímato, Barranquilla, new harm, 2x1520; 1/4 0416 SS pops, 0429 EE soul mx, vibraphone arpeggi, past 0700, appears AN. (Hauser-TX)
- 3075h HONDURAS R.Comercial, Tegucigalpa, hrd here, tho nominal 1550 would give 3120 harm. 1/8 0346 jingle, 1710 TC, ID, "Dinámica 76"(or 73?), may indicate a relay fgy as 768 is another possible fundamental of this(along with 1537½).1/6 0412 distorted vocals, "Reloj Comercial", M&W alt in Cuban style. (Hauser)
- 3100 GUATEMALA Cadena Azul de Guatemala, 1101 w/net list of several stns w/out fgy; no Guats known on likely funds 1550 or 620. Maybe wrh3? will clear it up(Hauser)
- 3130 COLOMBIA HJZT, R.Sensación, Manizales, 1/1 0038 pops, ad, 2x1565(Hauser-TX)
- 3150 MEXICO XEG, Monterrey, 3x1050, new harm, 1/5 0515 distorted EE, ID(Hauser)
- 3170 CZECH OLB5, time str, 0445-0530 time markers each second(Carlson)0320(Megyesy)
- 3199.7 DOM.REP. HIFA, LV de las Fuerzas Armadas, Santo Domingo, best ever hrd, 1/8 1045 SS re mais growing "en el norte del país"; het China, 1059 ID, 2x1599.85x (Hauser) 1100 SS ID, mx(Sellers) 0200-0400, //4825(Hoogerheide)
- 3200 CHINA Fukien Front, 1144 YL in C(Heutte)tlks 1200(Ralphus)1142 lang talks // 3400, 3535(Sellers)
- 3200 UNID 0306-0435\*, organ & concert ms, few pops(Tuchscherer)
- 3204 NIGERIA R.Ibadan, EE nx 0606 by man (Young)
- 3216 DOM REP R.Libertad, SS, ding-dong between items 1045(Ralphus)0020(Conner) 0230 (Megyesy)0345(Sellers) On 3218, 23 Dec, 0347-0404(Patterson)
- 3220 N.GUINEA R.Morobe, chanting, drums, chimes, TC, pidgin nx 12/25, 0815-0845 (Sparks)Traces 1045, full-bodied sig by 1110 to 1135 t/o; island chorals(Ralphus)
- 3225 VENEZUELA R.Occidente; 1040-1100+ LA tunes, SS(Sellers/Ralphus)0030-0215+ w/LA mx, SS IDs(Jamison, Megyesy)
- 3227 LIBERIA ELWA internal svc, Afr chants 0750, exo(Ralphus)Lang emtry by man 2150, RTTY QRM, no ID(Jamison)
- 3240 PERU R. America poor & getting worse 1100, OM in SS(Ralphus)
- 3245 Papua/N.Guinea R.Kerema, taking over from YV 1140. OM pidgin EE 1143(Ralphus)
- 3250 S.AFRICA SABC, Springbok Radio, 2230-0300 EE ads, mx, talk, mx, //4945, 6195 (Henderson, Sellers, Peters, Jamison)
- 3255 INDIA AIR hrd w/EE nx by woman 1432-1434, carrier, 1443 IS for 1445 EE s/on. Feature px 1446, Indian mx 1500. Good to fair lvl(Clurchill-CA)
- 3255 VENEZUELA LV del Tigre; 12/29, 0215 SS baseball (Patterson)
- 3260 PAPUA/N.GUINEA R.Madang, rock mx 1130, pidgin tlk, typical S.Seas fare(Ralphus)
- 3270t PAKISTAN t/i 1415-1431 t/o. Tentatively RP, Quetta; EE nx to 1423, then emtry; mostly unreadable(Bundy-Truk)
- 3275 VENEZUELA R.Mara, 1020-1033 SS, 1t mx(Tuchscherer)SS tlk 1035(Ralphus)0315 w/pop songs & ID(Sparks)
- 3277t KASHMIR R.Srinigar, TC 1530, EE nx //3375, gone 1541. (Young-CA)

- 3290 GUYANA Action Radio, 0832-1000 EE, mx, hymns, etc (Fabian, Helms, Megyesy, Sellers, Tuchscherer) 0158-0214 EE w/rock & CW mx, ID (Patterson)
- 3300 BR. HONDURAS R. Belize, 0100-0801\* w/Christmas mx, US pops, mx, ads, etc. All EE. (Orcutt, Churchill, Conner, Megyesy, Sellers, Nikolich, Young, J. Fisher) (Word, /
- 3300 GRENADA WBSB, 0100-0135+ w/old pops, EE tlk, anmts, BBC jazz, BBC mx (Nikolich, /
- 3304 INDONESIA-WEST IRIAN Indo stn here relaying W.Irian nx from Djajapura, causing severe het to Daru, t/i 0905-0920 s/off (apparently) after end of nx (Bundy-Truk)
- 3305 PAPUA R. Western District, Daru; 0805 vy good, CW mx, island chorals (R. Perry) R.W.D. must be the one w/GSTQ & off 1236, 1/6 (Hauser)
- 3306 RHODESIA R. Gwelo, EE nx //3396 at 0401 by M voice (Young)
- 3310 CHINA Changchun in Standard CC at 1013, fair (Kamp)
- 3315 MARTINIQUE ORTF, 0000 nx, 12/21 (Megyesy) 12/28 FF cmtry (Jamison) 1030 FF (Dexter)
- 3315 INDIA AIR Bhopal, most AMs, best abt 1415-1430. Fading after 1445 (Churchill-CA)
- 3316 SIERRA LEONE Freetown, 2250 lang, severe QRM (Herson) 2324 EE 1/5, records. Severe UTE QRM. (Henderson)
- 3320 GUATEMALA TGBA, R. Maya, Barillas, Indian lang, marimba mx, tlk, ID (Patterson)
- 3322 BOUGAINVILLE RB; lang talks 1135, fair w/uke mx & CW mx, chimes (R. Perry)
- 3325 GUATEMALA R. Maya; 1145 sounded like Hebrew tlk, 2 hymns 1155, IDs, past 1233 (Churchill) 1153 SS Christmas mx (Miller) 1145 rel nx in dialect, ID 1200 (Hoogerheide)
- 3325 VENEZUELA R. Monagas, 0206 SS, LA mx (Megyesy) 0334 SS anmts, ID, mx (Sellers)
- 3325 ECUADOR Ondas Quevedenas, pop songs & ID 0515, 12/28 (Sparks)
- 3330 USSR RR HS px 0823, seemingly //5015. Nothing listed here (Kamp)
- 3331 MALDIVIVE ISLANDS R. Maldives. Suspected Indian mx, possible M singer 1405. M voice 1429. Indian mx again 1439. Weak. (Young)
- 3335 PAPUA/N. GUINEA R. Newak, usual 0810 f/i (RALPHUS) weak when Rabaul excellent 1230-1300\*. All pidgin w/C&W mx. (Hoogerheide)
- 3336 SENEGAL Zinguinchor; 0620-0640 f/o w/AA chanting, fair (Hoogerheide)
- 3339 ZANZIBAR RTZ 0329 IS, tlk, into chanting; good lvl, but heavy UTE QRM (Dexter) Drums 0329, \*0330, F voice to 0331, chanting followed. QRM on 3338 & 3340. Ugh: (Young)
- 3344 INDONESIA-WEST IRIAN Indo stn here w/W. Irian nx relay from Djajapura, so Pontianak must be stn on 3346. 12/24 (Bundy-Truk)
- 3345 INDONESIA-BORNEO RRI-Pontianak thot to be the one noted two consec. days. M in Indo anmts, fgy drifts towards 3346 at times. 1340 (R. Perry)
- 3345 KASHMIR R. Jammu, bad het w/Pontianak on 3346, but Indian mx noted 1443-1449+. Weak & not hrd after 1458 (Young)
- 3346 ZAMBIA ZBS, Lusaka; 0330 chimes, vern (Ralphus) 0351 vern (Henderson) EE nx 0401, mx 0404, strong (Young)
- 3350 GHANA Ejura; 2230 exc lvl, vern. tlk by OM (Henderson)
- 3360 PAPUA R. Milne Bay, chanting, island songs, vern anmts, chimes, 0800, 1/6 (Sparks)
- 3364 GUATEMALA LV de Namala, 0245-0305 SS, LA mx, little tlk, quick ID (Lineback)
- 3365 DOM. REP. R. Exitos, 0100-as late as 0615+, but sometimes s/off earlier. SS, LA mx, ads, etc (Odlin, Herson, Zilmer, Sellers, Megyesy, Rosenbaum, Helms, Kamp, Patterson)
- 3366 GHANA Accra; 2235 vern, local mx (Henderson) 0530 TC, px of sacred mx (Tuchscherer) EE nx by man at 0605 (Young)
- 3375 UNID SS, weak, cmtry, 12/28 (Jamison) (Lineback /
- 3380 GUATEMALA R. Chortis; 1130-1200 SS, marimba mx, educ px (Lohe) 2350+ ID & mx /
- 3380 ECUADOR R. Iris, HCDY4, 1/3 0006 TC, M&W alt nx items, official anmts; frequent bank mini-spots; 0015 end. (Hauser-TX)
- 3385 N. GUINEA R. Rabaul, tlk, mx, pidgin, 1205 (Nikolich) 1130 lang, chimes 1/2 hr, old pops, C&W & island tunes (RALPHUS)
- 3385 VENEZUELA R. Barcelona, 0130 SS IDs, talks, TCs (Reeves) 0025 (Megyesy) 2200 (Orcutt) 1012 ID, anmts (Sellers) 1119-1137 Coke ad, TC, nx, QRM Chortis-3380 (Patterson)
- 3400 CHINA Fukien Front, 1115 past 1309 w/CC talks, etc (Heutte, R. Perry)
- 3518 INDONESIA?? 1055-1105 t/o, Indo-like stn, looking for Galapagos (Bundy-Truk)
- 3520-1 GALAPAGOS IS LV de G.; 0130-0400\* w/vocal, piano, trumpet mx, SS (Henderson, Tuchscherer, Young, Palmer) 1/10 0400 mx briefly (Jamison) 1/5 SS, mx to 0412 f/o (Marshall) 12/25 0412 w/non-Christmas mx dedication, ID, CST TC, SLP past 0719 (Hauser-TX) SLP= special late program (Hauser)
- 3535 CHINA Fukien Front, 12/21 1348 CC talk, M&W anors, better than 3200/3400 (Hauser)
- 3560 N. KOREA Pyongyang; FF 1415-1515+ w/nx 1430 (Davis-CA)
- 3668 TIMOR D11; 1050 PP, recorded mx (Henderson) 1227 snatches of pop mx, PP anmt. (Schnabel) traces of modulation 1230, usually have a carrier here, but rarely any

- identifiable details. (Heutte)Lively PP mx 1351, strong(Young)1243 PP songs & guitar, amrt, 1/4(Jamison)
- 3883 CAPE VERDE IS. RC Cabo Verde; 0830-0845 PP, PP mx, pops(Barto)
- 3910 JAPAN FEN 1028 EE ID, armts, ARO QRM(J.Kolb)
- 3910 RSFSR(As) Earliest hrd 2300 GMT, fades out 1600-1615. "Mayak" px, all RR(Davis)
- 3900 UNID 1034 JJ over CC, poor(J.Kolb)out of order
- 3900 CHINA Fukien Front, poor 1205 CC talks, ARO QRM(Heutte)out of order
- 3910 CAPE VERDE IS R.Barlavento, PP 0018; mx, mx, ads, tlk(Wootten,Morocco)
- 3925 PAPUA ABC Pt Moresby, nice lvl w/old pops, island tunes, 0950(RALPHUS)
- 3925 JAPAN NSE, 1008 JJ tlk, mx, fair(J.Kolb)
- 3942 FALKLAND ISLANDS FIBS finally hrd 0123-0132 w.choral mx, woman v.EE ID 0130 $\frac{1}{2}$ . Some ham QRM, not hrd since. (Churchill) Date? Would help on correlating rare receptions with other data. (DF)
- 3945 N.HEBRIDES R.Vila; 0830-0901\* FR, tlk, mx, off w/ID in EE, FF, Pidgin & tantams (Matsuura-Japan)Was not on air Christmas Eve. Operates weekdays only(Bundy)
- 3945 JAPAN NSE PxII, 0703-0731\* excellent, all JJ talks(RALPHUS)
- 3952 ENGLAND BBC, 0230 EE(Duba)0607 EE nx(Sellers)0700 EE ID, nx(Wiseberg)
- 3975 ENGLAND BBC, 0150 Hindi, Persian 0200(Sellers)0240 EE(Duba)0345 EE, lang (Wiseberg)0700 EE lang lesson, ID(Nikolich)
- 3978 JAVA RRI-Surabaya; 1050-1105 t/o Indo ads, jazz, ID, nx(Bundy-Truk)
- 3980 W.GERMANY VoA Munich 2314 EE(J.Fisher)0612 EE(Sellers)
- 3985 INDONESIA 1140, neither RRI Merauke nor RRI Biak now being hrd, 12/20-21(Bundy)
- 3985 NIGERIA NBC usually in around 1230 and later w/local rhythms, dialect(Heutte)
- 3985 ECUADOR Escuelas Radiofónicas Populares, 0432 ID, Christmas mx(Hauser-TX)  
Daily 1100-1145 w/Andean mx(Heutte-DC)
- 3985 SWITZERLAND SBC, 2115 EE tlk(Duba)0615 Italian ID, nx(Sellers)
- 3995 RSFSR(As) S/on 0800, f/o 1600-1615 GMT. "Mayak" px, all RR(Davis)
- 3995t SOLOMON IS SIBS 1000 EE under R.Moscow IS(J.Kolb)
- 4000 N.VIETNAM Viet Bac regional stn, 1757 VV tlk, 1800 "Viet Bac" ID. Frequency varies widely from time to time(Bundy-Truk)
- 4020 CHINA RP, thru MARS nets w/ EIR 1301 t/i, 12/27(Jamison)
- 4021 N.VIETNAM Hanoi, EE cmtry abt UN 1510, ID 1514, weak(Young)
- 4024v UNID AA, AA chanting 0135, to 0205. AA armts & chanting only. Peaks 0140 most evenings here(Young-CA)
- 4040 RSFSR(As) Earliest hrd 0805, s/off 1400, back on 1500. Hrd to f/o 1600-1615. "Mayak" px, all RR(Davis)0450 RR HS, lite mx w/armts(Sellers)
- 4089 INDONESIA-WEST IRIANY Stn here relaying RRI Biak //7210 complete w/Biak IDs, 1200 RRI nx relay, but around 1240 no longer //7210(Bundy-Truk)
- 4220v CHINA R.Peking, RR talks & mx, jammed; 1612 shift to 4215, //7025v(Bundy-Truk)
- 4258 N.KOREA (presumed) 1420 Kor mx & tlk, likely HS ex 4275v, as not hrd there(Bundy)
- 4280 INDONESIA 1210-1230 t/o, Java or Sumatra, Indo songs, not relaying Djakarta. West Indonesian TC at 1224(Bundy-Truk)
- 4283 BOLIVIA CP11?, R.Riberalta, 1/2 2354 SS TC, ID per timezone, fqy, other previous reports. (Hauser-TX)
- 4308 NUMBERS 0416 mechanical YL w/4-digit EE cipher groups. Significantly, for NASWA, the first group hrd was "8452". (Hauser-TX) Ah, you found us out!
- 4360 UNID could be goodie, either fund or MW harmonic. 0239 monotonous LA mx, 0257 CST TC, ID unreadable, 0304 off abruptly, not //2909(Nicaragua) which nearly share common fundamental. Also 1/8 0009(Hauser-TX)
- 4380 CHINA Fukien Front CC 1155, JKT ID 1200, w/mention of Fukien(Heutte)
- 4395 RSFSR(As) Yakutsk; 0600-1530 f/o "Mayak"(Davis) 1550 RR mx, weak(Young)
- 4400 N.VIETNAM VoV not here or 4550 12/30, tho here 25 Dec 1415-1435 w/JJ 1430 & //4550, 7040, 7798, 10073, 12030,(Bundy-Truk)
- 4400 CHINA Sinkiang Reg. Stn, Urumchi; Mongolian HS //5800 after VoV s/off 1600 (Bundy-Truk)
- 4401 N.KOREA KBS apparently no longer uses this fqy(Bundy-Truk)
- 4460 CHINA Peking, 1020-1640 f/o in CC HS(Davis)
- 4480 CHINA CPA, CC dialect //7525 et al, NF or reactivated for winter(Bundy-Truk)
- 4485 RSFSR(As) Petropavlovsk-Kam., Earliest hrd 0310, not Mayak this time, nor thru 0830. S/off 1500 after carrying Mayak. Occasional lcl armts 0630(Davis)
- 4500 AUSTRALIA VNG time stn, 1130(Heutte)1211(Conner)
- 4500 CHINA Urumchi, Sinkiang, zero beat VNG, CC singing, talks 1130(Heutte)
- 4520 RSFSR(As) Khanty Mansiysk briefly 0212 w/man in RR, couldn't hold it long. Presume this is propagationally possible. Tyumen & Palana listed too(Dexter)

4550. N.VIETNAM VoV again noted 12/31//7040v et al, FS at 1420, 4400 unhrd(Bundy-Truk)
- 4563 CLANDESTINE 1200-1400 I think it's now inactive(Bundy-Truk)
- 4594 UNID 1406 Viet-like talks here, dialect perhaps, chants, gone 1545(Bundy-Truk)
- 4610 RSFSR(As) Khabarovsk; Earliest hrd 0530, RR HS, s/off 1500(Davis) 0645(Conner)
- 4635 TADZHIK SSR Dushanbe, 0000 RR, some mx(Martin-Bu)0124 F voice, mx 0150, weaker at 0207. (Young)
- 4660 LAOS(landestine) Voice Pathet Lao, Lao tlks //7313,7480, 6199 unhrd(Bundy)
- 4670 NUMBERS Song, 0421 4-digit gps in strange, clipped PP, 0424 began 5 digit gps, gone 0448 recheck(Hauser-TX)0405 5 digit gps, mx 0415-0420, more numbers(Conner)
- 4679 ECUADOR R.Nac.Espejo; 0430-0635+ mx, SS(Miller,Lineback, Dickson, Sellers) 1035-1110 Andean flute mx, ID; excellent. (Calkin) (Young)
- 4698 UNID Vy weak w/ m voice/armts. F tlk 1402. Hrd to 1547 w/light mx. Indonesian?/
- 4710 UNID Seems to be East Asian RSFSR, every AM, always F voice, no mx, 1254-1600. No IDs hrd(Young)
- 4719 INDONESIA RRI-Makassar, Nusantara Ujung Padang, fair lvl 1330-1342 w/YL in Indon, pops(R.Perry)t, 1300 Indo, lt mx (Conner)
- 4725 BURMA BBS Rangoon, chimes & IS at 1330, then hymns, feature ex 1400-1415\*. S/off appears 1415 daily now, not listed 1400.(Churchill)1145 Burmese tlk, not as strong as 5040(Heutte)
- 4731 KASHMIR Azad Kashmir Radio; Urdu tlk1215(Henderson)Indian mx 1249, drums. Anmts 1300. Chanting & anmts to 1400\*. Noted daily. (Young)
- 4740 MALDIVES R.Maldives, t/1 1625 traces of mx thru usual UTES. Snatches of YL in EE, more mx, 1730 YL w/definite mention of R.Maldives, anthem & off. First definite logging after many many tries(Bundy-Truk)
- 4738 UNID Oriental, possibly Indo w/ M&F voices t/king 1241, weaker at 1305(Young)
- 4747v BRAZIL ZYD9, Emissora Acreana, 0044, 1/8 extreme FM distortion, mx 0111 PP EST TC(so no DST in Acre). To 0335 sudden s/off.(60 m svy says 0400\*). Nominally 4885 where not heard. Also 1/8 0958 check, not next evening(Hauser-TX)
- 4748 COLOMBIA Cadena Nacional, mx in SS 1145, mentioning Managua quake & local items, overmodulated, one ID; hrd just this once, not since; must be very irregular. What happened to HIFE that was here a while back?(Heutte)
- 4750 ZAIRE Lubumbashi presumed, 1/1 0013 FF-influenced lang, hilife mx, ment, Zaire Hauser)
- 4750t N.VIETNAM Tay Bac, 1211 VV, VV mx, not CC sounding. 1/11(Henderson)
- 4752 INDONESIA RRI-Makassar, 1212 Indo US records, Indo YL ancr(Henderson)
- 4755 COLOMBIA Em.Nuevo Mundo, 0200 SS, LA mx(Zilmer)0500-0630+(Sellers, Dickson, Marshall)1130(J.Fisher)1146 LA ballads (Miller)
- 4759 UNID 1214 in CC(?) w/man tlk(Henderson) (Sellers, Marshall)
- 4765 CONGO RTVC 2035-2150+, FF, Afr chants(Sellers, R.Perry)0500-0545+ vern/FF (/
- 4765 ECUADOR CRE 0050-0400 SS, cl mx, pops, mx(Zilmer, Megyesy, Peters, Conner) 0745-0805 N.Yrs., ID as HCJA2(Reeves)1110 chimes, ment Guayaquil(Conner)
- 4765 INDONESIA-SUMATERA RRI-Medan, 2338, 1/2, YL Indo tlk, f/o by 2400. Prob only 60 meter Indo possible this hr-far west(Hauser) 1215 Indo, ID, US CW songs(Henderson)
- 4769.8 VENEZUELA R.Bolivar, 0840 SS, ID(Odin)0155 SS (Zilmer)
- 4770 LIBERIA ELWA, IS 2135, chants(R.Perry)\*0600 EE, BBC mx, rel px, past 0715 with rel px, talks(J.Kolb, Cwtkla, Imbert, Sellers)
- 4771 CHINA R.Peking, believe was Thai w/KCES ES2, s/off w/Int(Bundy-Truk)
- 4772 ECUADOR R.Cenit, Bo songs, ID, 0430 s/off, 1/4(Sparks)
- 4773.5 DOM.REP. Onda Musical 0435-0445 SS LA mx, tlk(Lineback)
- 4775 AFGHANISTAN Kabul; extremely strong w/chanting mx 1324, EE ID 1400 after flute IS, EE mx(Young)
- 4775 DOM.REP. Onda Musical, 0200-0630 s/off(Peters,Rosenbaum,Helms)1135(Plum)
- 4777 GABON Libreville, 2145 FF, lang, Afr pops(R.Perry, Zilmer)
- 4780 HONDURAS R.Juticalpa, 1107 mx(Conner)1135 cl mx, ranchera mx, Recal ad(Heutte) 12/24 1426 ID, TC, TC correction, poor(Hauser-TX)
- 4780t ECUADOR R.Atamalpa, 0520 SS, Andean mx(Conner)
- 4785 PERU R.Atlantida, 0133 SS, Coke ad(Miller)0450 flute mx, ID, 0454\*(Conner) 0851-0920 good lvl w/Andean mx & ID(Calkin)
- 4785 UNID 0407-0415 f/o EE, mx, ment Pak twice, ID not hrd. Non-western mx, possibly an African, poor(Lineback)Sounds like Tanzania. Date on it would help to correlate with other data.(DF)
- 4785 AZERBAIJAN SSR Baku(list), M&W RR mx 0504, good lvl(Dexter) RR entry, bell IS 2059, then ll bells & anthem, ll bells doesn't register for Baku which is GMT+4. 12/28(Jamison)No. of pips/bells on RR stns does not tell time(DF)

- 4787 MALI If you heard EE pops on Christmas Eve, believe you had Mali till 0000 s/off. w/anthem, not Turks & Caicos (Hoogerhede) 0000-0004\*, 12/25 (Conner) There was one report of T&C at 0900, but it seems doubtful that T&I would be on at that time, even on Christmas Eve. Further, Mali has been widely heard in the 4786-4788 fgy slot lately, and would still be coming in, though weakly, at 0900. So, it probably was Mali that was heard at that time. (DF)
- 4790a UNID African 0700, 12/20, FF mx, AA(?) tlk, carrier abruptly off 0709 (Sellers) Undoubtedly Mali. (DF)
- 4794.8 ECUADOR LD de los Carás, 0440-0515 ID, mx, TC (Lohe) ID 0345, unbelievably good, like HCJB: Only 500 w/ Off or reduced pwr 0406 (Odlin) Perhaps the one w/BEC Eng by R in SS, 1/6 0233. (Hauser-TX) EE lessons till 0245, ID, 1/4 (Jamison) Also noted 1/4 w/EE/SS at 0235 by (Reynolds) 0455 SS, ID 0502, mx, 0520\* (Conner) Mambo mx 0415-0520\*, 1/7, full ID at s/off (Calkin) 0415-0435 SS, LA mx, some tlk (Lineback)
- 4795 RSFSR (As) Ulan Ude, cl mx, RM HS, 0630, 12/12 (Sparks) M&F voices 0844, RR pop mx 0850, //5910 (Young) 2200-2232, Ulan Ude listed, 12/28 w/oriental stringed mx, M&W talking, het (Tuchscherer)
- 4800 CHINA Shanghai per Dec FRENDX, 12/25 at 1440 CC cl mx (Hauser-TX) Still CC here, possibly from Shanghai, no sign of Hyderabad (Bundy-Truk) CC 1415-1730\* (Davis)
- 4800 INDIA AIR, Hyderabad, 1540 EE mx to 1545, then summary (Martin-Eu)
- 4800 LESOTHO R. Lesotho, 0408-0427 Sesotho, choir mx, talk by man (Tuchscherer)
- 4800 VENEZUELA R. Lara, 0325-0400\* SS, TCs, IDs (Peters, Megyesi) 1030-1105\* (Miller, Lohe)
- 4807 ECUADOR R. Popular 0120 mx, mx 0130 (Guarducci) 0403-0415 mx, SS (Lineback)
- 4807 REUNION ORTF, instr semi-cl mx 1538 past 1556. Poor lvl, but occasionally S3. Not hrd regularly here (Churchill) FF mx, amnts, from 1400 to as late as 1525 most AMs (Young)
- 4810 VENEZUELA R. Popular, 0015 pops, IDs (Megyesi) 0030 SS, mx, IDs (Herson)
- 4815 UPPER VOLTA Ouagadougou, 2125 Afr vern tlka (R. Perry) \*0600 FF (Hoogerhede) Nrx & Afr mx at good lvl till 0800\* (Orcutt)
- 4815 CHINA R. Peking, 1149 CC (Henderson) 1210-1245 RR (Heutte) 1301-1314 RR ID (Tuchscherer)
- 4815a ECUADOR Canal Manabita, 0407-0431 SS, LA mx (Tuchscherer)
- 4820 ECUADOR R. Paz y Bien, easily the loudest 60 mb stn early AMs 0900-0930, so must have earlier s/on than listed in WRTH (Hoogerhede) 1050 SS, 1100 mx (Conner)
- 4820 HONDURAS HRVC, 0300 EE cmtry, rel px (Megyesi) 0410 EE rel px (Palmer)
- 4820 ANGOLA Emisora Oficial, MOR mx, fair-good 2210 (R. Perry)
- 4820 GAMBIA R. Gambia, English news 0710, 12/16 (Sparks)
- 4820 COLOMBIA UNID 0407-0435 SS, 12/6 only; mx, martial mx. Narino off 5? (Tuchscherer)
- 4823 INDONESIA UNID. Christmas day sermon & church px in Indon, no IDs hrd (Bundy-Truk)
- 4823 BOLIVIA R. Grigota, fiesta mx & ID 0045, 1/2 (Sparks)
- 4825 DOM. REP. LV de las Fuerzas Armadas, 0030-0428\* (Carlson, Imbert, Plum) 2200 (R. Perry) 1040 (Conner)
- 4825 UNID stn w/Asiatic chant, AA-ish but not quite, fair but QRM at 2200, past 2205, then either lost or off. Ashkhabad? (R. Perry)
- 4830 THAILAND R. Thailand 1330-1430 Thai, Thai mx, nx (Matsuura)
- 4831 GABON RTVG, Franceville, 2016 old pops, FF, weak (Henderson)
- 4832 COSTA RICA R. Capital, 2300-0500\* & later (Yamron, Helms, Peters, Lineback, Guarducci, J. Perry, Kamp, Marshall, Imbert, Megyesi)
- 4835 SARAWAK RMS-Kuching, 1430-1500 Malay nx, lite mx, ID (Matsuura-Japan)
- 4839 MOLUCCAS RRI-Ambon, 1335-1400 Indon, mx, close w/island mx (Tuchscherer) TL in Indon, //7138, but stronger; 0940, 12/24 (Sparks)
- 4839 ZAIRE Bukavu noted from 0402, OM w/lang chant, little FF (R. Perry) 2120, 12/24, Afr rhythms, tentative as overtime acc WRTH, but maybe due to Christmas (Jamison) 0413-0433, 12/17, FF ID, vern, Afr mx, w. anner (Tuchscherer) (Field)
- 4839.9 BRAZIL R. Roraima, 0045-0200 PP, Christmas px (Lohe) 12/24, 1025-1030 YV s/on
- 4840 VENEZUELA R. Valera, \*1100 (Lohe) 0455-0515 SS, ID non stop mx (Lineback)
- 4845 BOLIVIA R. Fides, weak in SS w/M&W, noticias, 1100-1115 f/o. Where is Bucaramanga these days? (Hoogerhede) 2245-2330 cl mx, cmtry (Heutte) 0045 lcl nx (Conner)
- 4845t BRAZIL R. R. R. Rdif Teresina 0050 PP, QRM Bolivia, PP amnts (Conner)
- 4845 MALAYSIA RM Padang, Malay, SEAsian mx, good sig (Henderson)
- 4850 MAURITANIA R. Nouakchott, guitar IS 0659, FF amnts at \*0700, into AA chanting (Young) 0700-0800\* AA/FF (Sellers, Sykes, Alcock, Conner) AA chant 2115 (Zilmer) 2228 AA chant thru fax (Jamison)
- 4850 UZBEK SSR Tashkent, 1220 lt mx, //4895, 5015, couple hets (Heutte)
- 4854 BOLIVIA R. Centenario, 2345 tune, mx, man ancr, mentions "Centenario" and "Bolivia". Good lvl 12/11, only a trace same time next day (Dexter)

- 4854# BRAZIL R.Dif. Taubat6, 0300-0345, PP mx, TC, ID, fair(Lohe)  
 4855 INDONESIA RRI-Palembang, 1200 Indon mx by m, ID 1205(Henderson)  
 4860 VENEZUELA R.Maracaibo, 0130 SS pop mx, TC(Megyesy)0030 ID, LA mx(Imbert)  
 4860 USSR Orenburg, 2030-2130, fair to good most days w/RM relay, lite mx(Heutte)  
 4865 ANGOLA Emissora Regional, vy good 2030 w/lite mx & PP amts(Heutte)0045-0102\*  
 w/cl mx, amnt, gongs & NA to 0102\*(J.Fisher)  
 4865.8 COLOMBIA LV del Cinaruco 1040-1050 SS & ER pops, Caracol ID(Lohe) (Jamison/  
 4870 DAHOMEY Cotonou, presumed, weak in FF 0533(Kamp)0645 FF(Marshall)2210 Af rhythms  
 4870 ECUADOR R.Rio Amazonas 1109 flute mx, carols(J.Fisher)1115 flute sig tune  
 indicating beginning of Jivaro px, occ. tlk w/Andean guitar mx, fade 1145(Heutte)  
 4871 INDONESIA RRI-Sorong, 0825 misical chimes IS, woman w/short Indo mx, 12/24(Sparks)  
 1350-1400 lt mx(Tuchscherer)1235 SEA songs(Henderson)1152-1205 weaker than usual  
 (Kamp)1135 talk, mx(?), bad het(Conner)  
 4871.5 VENEZUELA R.Trpoical, 0525-0600\* SS, LA mx, close w/nat.anthem(Tuchscherer)  
 4875t ECUADOR LV de Esmeraldas, 0430-0630 SS, Ec mx, IDs, TCs, hard to ID(Reeves)  
 4875 S.AFRICA SABC 2020 EE/Afrikaans, opera mx, fair, //4965(Henderson)(Matsura-Jap.  
 4875 S.VIETNAM VTVN Saigon, 0900-1500 VV, SEA mx, tlk, mx, ID, //6165, 7175, 9620  
 4875.3 BOLIVIA La Cruz del Sur, 1015-1045 Indian lang, SS ID 1030(Lohe)1/6 0223 relay  
 SS mx(BEC?), 0227 tlk abt Christians & Moslems, also 1/8 1020 Indian lang,  
 presums Quechua as sked. (Hauser-TX)2305-2333 SS lite mx, mx, amnts, rel talk  
 (Tuchscherer)1024 lang w/Christmas carols, SS ID 1033, good(J.Fisher) \*1000 SS  
 s/on in clear. Maybe mx 1015, excellent(Alcock)  
 4877 KHMER(Tentative) 1310-1600\*, Khmereal tlks, beautiful Khmer mx, Christmas carols  
 (Khmer lyrics), etc. Didn't make out the ID, but same lvl as 4907 recently noted  
 and same pgms, too. 4907 silent this evening. Has been running all night, but  
 not tonight, 12/25(Bundy-Truk)  
 4877 S.VIETNAM VTVN Saigon again using this fqy. Noted 1258 w/VV pop songs. Also hrd  
 later around 1400 good lvl(Churchill-CA)  
 4880 ZAIRE Kinshasa, 1622-1635 lol lang, drums, FF amnt, another lol lang, //15245  
 (Bundy-Turk) 0441 tlk in Afr lang(Schnabel)  
 4881 DOM REP R.Comercial, 1/6, 0535 LA mx, SS amts, singing IDs(Lineback)  
 4885 COLOMBIA Ondas del Meta 0520-0530 SS, ID, ads, mx(Lineback)  
 4886 BRAZIL R.Pionera Teresina, 0856-0920 PP, mx(Tuchscherer) (Lineback/  
 4890 PAPUA VLT4, Port Moresby, 0900-1400\* EE mx, tlk, mx, IDs(Hauser,FabianMayer/  
 4890 HONDURAS R.Lux, normal s/off 0300, past 0600 NY Eve(Calkin)0600-0647+ 1/1,  
 local mx, hatful of IDs(Tuchscherer)1/1, M&W 0700-0720+(Reeves. 1200-1230  
 before Port Moresby f/i, Weak, lots of ads for San Pedro Sula(Hoogerheide)  
 4890 VENEZUELA Rdif Venezuela, 0300-0406\*(normal), at times past 0530(Megyesy,  
 Lineback, Plum)  
 4890 SENEGAL Dakar, Afr mx 0400(Field)2200 cora solo's, FF ID 2300(R.Perry)  
 4891 MOZAMBIQUE Again, tentative RCM-Beira, better this time, 4855 quite strong at  
 the same time on 12/13. Only brief talking, thot gongs at 0429, but they were  
 about gone by then. (Dexter)  
 4895 ANGOLA Tentative RC do Bie, 2242 tune to apparent s/off 2300. Weak level and  
 difficult copy. (Dexter)  
 4895 BRAZIL R.Bar6, 0015 PP sports(Conner)  
 4895 RFSR(Eur) Tyuman, 0229 open carrier, 0300 woman w/"Goverit Tyuman", then man  
 in RR. Very good level(Dexter)  
 4895 TURKMEN SSR Ashkhabad w/M&W in RR 0510. Fair most PST nites(Kamp)  
 4895 UNID USSR, in RR 1210. Who is it?(Jamison) Take your pick, I guess, hi(DF)  
 UNID USSR 0206-0223 in RR, M&W talk, piano mx(Tuchscherer) If Tyuman s/on 0300,  
 must be someone else, but I could'nt say who. (DF)

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 That ends another "lower fourth". As long as this one was, I hope I misdistributed  
 the reports and left the bottom end heavier than the other 3/4, hi! The past two  
 months have shown NASWA members a lot of good DX, and NASWA members have shared it  
 with other members through the bulletin. The result has been some of the longest  
 LOG REPORTS ever!

- 4900 ECUADOR LV de Sasquisili fair at 1105 with SS and Andean tunes (Heutte)
- 4902\* GUINEA Conakry R still wandering; fair at 0250 with CM lang talk; //7125(Perry)
- 4905 CHAD Ft Lamy 2050-2130\* with FF drama, amnts; chimes, ID, NA (d'Adolf, Henderson) Running late for official Nigerian visit, 2135 ES speech, 2141 back to FF, past 2210 (Behr) Talks by man in FF, poor 2150 (Mayer)
- 4905 COLOMBIA Em Atlantico at 2315 in SS IDs, LA mx; het; fair (Imbert)
- 4907 BRASIL R Relogio very good at 2240 in PP talk by a man (Heutte)
- 4907 KHMER REP RNK running all night 21 Dec, Khmer songs and talks 2050; not hrd on 25 Dec though (Bundy) 1600 nx and band mx; hvy RTTY (Sparks)
- 4910 GUINEA LV de la Revolution fair at 2200 with FF cmtrys (Sellers)
- 4910 VENEZUELA R Carora good at 1030 with mx, ads, SS ID (Conner)
- 4915t BANGLADESH Dacca at 1610 tune; possibly Bengali HS; no ID yet (Bundy)
- 4915 CHINA RP CC at 1305, HS with man and woman talking, fair (Conner)
- 4915 GHANA GBC fair-good at 0610 with EE nx (Draut, McClure) 2040-2200 with lang. talks and local mx (Nikolich, Sellers, Zilmer)
- 4915 KENYA VOK later than usual, 1600 Swahili nx; poor (Churchill)
- 4916 COLOMBIA R Guatapuri at 0430-0459\* with SS and LA mx, amnts, then chimes, IDs & NA (Carlson) 0655 in SS with New Year's pgm (Reeves) 1020-1110 with rel pgm, slogans, IDs and mx (Conner, Lohs)
- 4918t MANCHURIA Ha-erh-pin probably moved up here; QRM de VLM4 at 1220 with CC yak by woman, six pips and ID 1300, fading fast (Heutte)
- 4920 AUSTRALIA VLM4 Brisbane fair-good at 0900-1400\* with ABC nx, mx, Queensland nx, jazz (Duba, Fabian, Mayer)
- 4920 HONDURAS R Progreso at 2213 in SS pop & LA mx, TCs, ID, good (Megyesy)
- 4920t INDIA AIR Madras with sitar mx and singing, quick fade 0115 (Sparks)
- 4920 USSR RM at \*2100 in Serbo-Croatian (J. Fisher)
- 4920a COLOMBIA Unid. stn at 0420-0457\*, "en Bolivar...R Putapuy(2), nueva emisora"; Bolivar is a state in Colombia (Plum)
- 4923 MOZAMBIQUE RCM, nice lvl over LAS one night; DJ, ads, old pops (Perry)
- 4926 RIO MUNI R Bata with SS, African mx; 0501-0528\* (doubt s/off intended)(Young)
- 4930 DOMINICAN REP R Mil 2300-0730, all SS, LA mx, usually off 0630\* though carrier sometimes remains on past 0645 (Draut, Duba, Helms, Imbert, Megyesy)
- 4932 JAVA RRI-Surakarta with Indonesian mx and chanting 1615 (Sparks)
- 4932 NIGERIA Benin City with church svc, Afro mx 0440, EE nx 0500 (Kamp, Tuchscherer) 2115-2200 with local and US mx, pips and EE nx at 2200 (J. Fisher, Mayer, Perry)
- 4937t ANGOLA There is one here at 2035-2200 fade with LM and PP amnts; R Ginbey via SCX sez it is R Clube do Lobito ex-4910 (Heutte, Hoogerheide)
- 4940 IVORY COAST Abidjan at \*0600 in FF (Davis) 2110-2215 with EE rockenroll, man and woman talking, fair (Mayer, Zilmer)
- 4940 USSR RM HS at \*0630-1730 fade, all RR in Majak pgm (Davis)
- 4940 UKRAINE Kiev poor under Abidjan with RR HS relay 2035; light mx (Heutte)
- 4940 VENEZUELA R Yaracuy at 0015-0650 with SS mx, nx, ads, het QRM, generally fair (Duba, Megyesy, Martin-Ru)
- 4945 COLOMBIA R Colossal 0400-0650 with many ads, IDs, nx, mx in SS; good (Duba, Plum, Van Horn, Yamron) 1000-1030 in SS LA pops, ads, very good (Fabian)
- 4945 SOUTH AFRICA Springbok R at 0015-0330 with EE-Afrikaans, old pops (Dickson, Herson) 2115-2215 with ads, jingles (Martin-Ru, Perry, Van Horn, Zilmer)
- 4950 SARAWAK RMS Kuching at 1600\* (Davis)
- 4955 COLOMBIA R Nac at 0100 with mx, time pips, frequent IDs (Carlson, Megyesy) 1130 with FF transcription pgm from CRTF, SS1135 (Reeves) 2021 audio traces (Hauser)
- 4960 CHINA RP FS in lang. 1250 with CC YI yakking; 1300 EIR, fair.(Heutte)
- 4960t ECUADOR Unid. around 0130-0240 with SS and mx, perhaps same 1030, no ID (Field)
- 4965t COLOMBIA R Santa Fe 0200-0730, lively mx, SS, IDs, nx, RTTY on low side; may be having xmtr trouble (Dickson, Draut, Duba, J. Fisher, Guarducci, Imbert, Lineback, Megyesy, Sellers, Van Horn, Word) Traces 2020 (Hauser) Whew! FH
- 4965 SOUTH AFRICA R South Africa with EE svc, Agriculture Journal at 0423, poor with QRM (J. Kolb) 2130-2207\* with rel pgm, pops, EE (Henderson, Zilmer)

This looks like a gigantic section this month...hang in there, y'all! FH

- 4970 VENEZUELA R Rumbos at 0200-0507\* and \*0900 with LA mx, nx, jingles, American rock, good (Duba, Guarducci, Imbert, Lineback, Megyesy, Reeves, Van Horn, Word)
- 4972.5 CAMEROON R Yaounde at 0530-0600 in FF with church svc, Xmas mx, pops; EE IS, ID and nx (Conner, Kamp, Young) 2030-2140 with African jazz, classical mx, brief nx at 2120; fair to good (Martin-Eu, Sellers, Smallshaw)
- 4975t BRASIL R Copacabana with pops, PP at 0720, ute not too bad 12/17 (Conner)
- 4976 UGANDA RU with EE nx, ID, to 2105\*, weak but readable (Sellers)
- 4980 GHANA Ejura at 2015-2130 with nx, local and American soul mx, rel pgm, EE and vernacular; RTTY (Martin-Eu, Sellers, Zilmer) 0730 ID and EE nx (Carlson)
- 4980 VENEZUELA Ecos del Torbes, all SS at 2245-0505\*(or 0359\*) with LA and Xmas mx, IDs (Guarducci, Imbert, Megyesy, Word)
- 4985 ANGOLA R Ecclesia definitely IDed 0500 after pgm of pops and PP ancr, poor (Heutte t 0505-0535 with US pop tunes, chimes, poor (Conner)
- 4985t MALAYSIA Penang presumed here; EE-vernacular nx, C&W, native mx to 1630\* (Kamp)
- 4987 MALI R Balosmo at 2150 with AA and FF talks, good (Henderson) Any more info on this one, Dan? Not hrd on frequent checks and no bulletin listings either. FH
- 4990 VENEZUELA R Barquisimeto fair to exc at 2210-0400\* though occasionally runs late as on New Year's; SS mx, ads, nx, IDs, classical pieces (Dickson, Imbert, Lineback, Megyesy, Reeves, Tuchscherer, Van Horn) 1000 SS talk, ID (Sellers)
- 4994.4 BRASIL R Brasíl Central at 2315-0300 in PP mx, talks, ads (Zilmer, Lohe)
- 4996 USSR RTA Novosibirsk; at 0114 had GQ GQ GQ DE RTA RTA three times, ticks again at 0115; first eight of each minute are double ticks (Young)
- 5000 ARGENTINA LOL with SS woman under WWV, poor 0000 (J.Fisher)
- 5000 CHINA BPM Peking, IDing continuously at 1500-1501 on CW (Young) First report!
- 5000 NEPAL Kathmandu daily 1130-1300 with sitters, IL ancr, fair strength but buried under WWV; seems about 300 cycles low (Heutte) 1430 EE nx, chants, QRM (Martin)
- 5004 USSR RID Irkutsk, similar format to RTA, GQ GQ GQ DE RID RID RID three times 1310 (Young) Add a dot to the cl and you have LID, hit
- 5010 CAMEROON R Garoua with native lang. and mx 0535 (Young) 2100-2201\* with local mx, FF, AA and vernacular (Henderson, Perry, Tuchscherer)
- 5010 DOMINICAN REP R Cristal 2200-1300 nx, LA mx, SS ads, QRM from R Eco (Conner, Heutte, Megyesy, Nikolich, Tuchscherer, Van Horn)
- 5010 PERU R Eco under R Mil at 1005 in SS with mx, ID (Conner)
- 5010 SINGAPORE R Singapore in CC svc, 1605-1630\* with talks and piano mx (Bundy-Pac, Davis)
- 5010 ESPIONAGE Over R Cristal 0630 with IL, 'Papa November', abrupt off 0711\*(Draut)
- 5013t BRASIL Rdif de Pocos de Caldas, 0130-0305\*; mixture of music, some rock, a waltz, some Brazilian-something for everyone-and PP ancr (Dexter, Heutte)
- 5015 GRENADA RG at 2200-0000\* with local ads, mx, BBC nx at 2300, also 2245 (Fabian, Helms, Miller, Nikolich, Zilmer)
- 5015 USSR Vladivostok fair to exc daily with RM HS relay 0500-1600\* and \*1600-1800 fade (WCNA) 1000-1400 (ECNA), sometimes dual 4850 4895 (Davis, Heutte)
- 5015 USSR Arkhangelsk generally fair at 2030-2105\* in RR HS, light mx, short signature tune on the hour, nine chimes, USSR NA and off (Heutte)
- 5015 ESPIONAGE Five number groups by EE IL 0730, fair but utility QRM (Helms)
- 5015 Unid at 1235 with talk in lang., mx, chatter with man and woman (Nikolich)
- 5018 BOLIVIA R Universo, pop songs and SS ID 0056 (Sparks)
- 5019 ECUADOR R Centinela del Sur, Andean and other mx to late close 0341\*(Tuchscherer)
- 5020 VENEZUELA R Nac at 0340-0400\*, instrumental mx, SS nx, QRM (Duba, Tuchscherer)
- 5025t ANGOLA R Clube da Huila at 2153 tune with man ancr in PP, operatix mx, gong 2230; AP at 2300\* (Dexter) Fade-in 2045 but QRMed out after 2230, poor (Heutte)
- 5030 VENEZUELA 0200-0510 with IDs, gong, sports, talk, LA mx (Dickson, Guarducci, Hauser, Imbert, Lineback, Megyesy, Sellers, Van Horn) R Continente, this!
- 5033 ANGOLA R Clube da Cabinda, two days at 2140-2301\*, African jazz, horns, etc., PP amts, AP at close, not gud, but readable (Perry) FB, Ralphus!
- 5035 SUDAN Qadurman poor in loud squeal at 0430 with man in AA (Duba)
- 5035 Unid, mornings around 1130-1300, talks and mx in lang.; fade matches China but unlisted everywhere (Heutte)
- 5038v CENTRAL AFRICAN REP Bangui fair at 2050-2230 with FF, pop mx, talks (Duba, Henderson) Instrumental mx (Plum) Good in FF at \*0430 (Kamp)
- 5040 BURMA BBS 1130-1545 with exotic and American mx, IDs, nx, Burmese ancrs (Conner, Nikolich, Perry, Young) t at same times with talks, mx, singing, etc. (Carlson, J.Fisher, Martin)
- 5040 GEORGIAN SSR R Tbilisi weak at 0158 with anthem, RR HS nx (Heutte)

- 5042 PERU R Junin fairly gud at 1110, Andean tunes, SS amts (Perry) Definitely IDed;  
 5042b ECUADOR R Libertad de Junin mentions of Quito 1110, talking (Conner) ~~Hummmmmmm~~  
 5045 BOLIVIA LV del Altiplano, 0019 Bolivian economic summary, variety mx (Hauser)  
 t at 0910-0923 with LV and SS singing, no amts noted (Young)
- 5045 FORTUGUESE GUINEA Bissau at 0019-0159\* with AP; pops; (dual 10090) (Hauser)  
 5047 JAVA RRI-Jogjakarta fair at 1100-1300 with mostly Indon. talks, light mx, nx,  
 had EE one day 1130-1145 (Henderson, Heutte, Perry)
- 5047 TOGO Lome at 0515-0645 with mx, talks, nx, GG and EE language lessons (Draut,  
 Imbert, J. Kolb, Marshall, Sykes, Young) 1930-2303\* with FF nx, mx, IDs, drums  
 and native chants (Heutte, Martin-Eu, Megyesy, Miller, Plum)
- 5050 VENEZUELA R Zulia at 0110 with LA mx and talks (Megyesy) Sure abt ID? FH  
 5050 VENEZUELA R Mundial at 0019-0050 with continuous LA and US pops, poor (Plum)  
 5050a Unid at 1245 with talk in CC, mx, YL ancr, suddenly off 1256\*, exc (Nikolich)  
 5052 SINGAPORE RS with EE, orchestral mx, nx 1537 (Davis, Martin-Eu, Young)  
 5054 INDONESIA RRI-Ujung Padang (new name for Makassar) to 1200\* with Indonesian  
 talks, some mx; sometimes runs past 1200; 4719 sign on is just after this  
 closes. ID per V Gocnetilleke; Inilah RRI-Nusantara Satu Ujung Padang; at any  
 rate TCs are for Central Indonesia (Bundy, Henderson, Heutte, Perry, Young)
- 5060 ANGOLA R Clube do Huambo at 2235-2301\* with PP, Afr. tunes (Perry) Former 2201\*  
 5060t YEMEN R Yemen with AA chants at 142b; nx 1430; peaked same as Sana-5804 (Young)  
 5062.5 ALBANIA R Tirana with local lang., mx at 2120, talks (Henderson) t 0450 with  
 strange mx-cross between CC and AA, hit; had ute problems (Conner)
- 5065 USSR Petrosavodsk at 1100 with ID and talk by woman, some flutter (Henderson)  
 1500 with RR conversation dual 5900, weak (Young)
- 5070 Unid LA with marching anthem at 0114\*, sounded Ecuadorian (Young)  
 5075 COLOMBIA R Sutatenza 2330-0510 with SS nx, mx, LA mx, TCs (J. Fisher, Good,  
 Imbert, Megyesy, Sellers, Yamron) Presumed, weak 2031 with mx (Hauser)
- 5120a RFE at 2345 with FF, badly modulated and stn underneath QRMing (Martin-Eu)  
 5255 Unid, likely Alma-Ata; 1316 SSB mx, man and woman talking in lang., RM ID  
 and IS; may have mentioned Kazakh (Hauser)
- 5260RF KAZAKH SSR R Alma Ata very good with IM 0030, ID 0100 by YL, nx, RR singing  
 and amts to 0151; perhaps ex-9380 (Heutte, Young)
- 5273t PARAGUAY R Nac with sportscast at 0101, off 0135 tune-in (Young)  
 5290 Unid with RR man and woman ancrs, mx, amts, Russian anthem and RM IDs at  
 0100-0300, stronger than Alma Ata (Heutte, Young)
- 5310 CUBA LV de Cuba with mx and ID 0751 (9x590, where also hrd) (Hauser)  
 5492 INDONESIA Unid again at 1245 with light vocals, 1258 RRI IS (Hauser)  
 5559 INDONESIA RRI-Surabaya at 1151-1346 with mx, amts, joins RRI at 1300; local  
 government stn per GH (Hauser, Young)
- 5580 MEXICO XEU, R Nucleo Oro, Veracruz, at 2144-0414 with SS mx, New Year's  
 greetings, dedications, local ads (6x930) (Hauser)
- 5800 Unid with piano exercises and male voice at 0220, dual 5900 5910 5935 (Young)  
 5804 YEMEN R Sana with slow AA chant, pauses, talk at 0350, fair (Duba) Unusual  
 sked and strength with AA mx, Koran, drama, orchestral mx, female ancr, nx at  
 1500; signal peaked at 1430; formerly 1440\* (Churchill, Young)
- 5875v HONDURAS 0000-0455\* HRN with SS cmtry, mx, talks, ads (Eichenhorn, Lineback,  
 Guarducci, Miller) 1910 with report from Managua on quake (Hauser)
- 5885a CZECHOSLOVAKIA R Prague at \*0100 in EE nx, fair (Guarducci) Sure abt freq? FH  
 5900 USSR RM HS in RR with beautiful mx at 1440 tune (Bundy)  
 5905 USA Delano VOA LSB feeder, lang. at 1300, VV at 1440, //7275, good (Bundy, Heutte)  
 5910 USSR Far East RM HS relay from 0640 tune to 1800 fade (Davis)  
 5915 USSR RM at 0425 with talk, didn't seem RR; 8-note IS at 0429 (Hauser)  
 5920 CHINA RP with CC HS at 1630-1700\* (Davis)  
 5920 BYELORUSSIA RM Minsk in EE at 2010 and 2130 in xmsn to Europe (Duba, Perry)  
 5930 CZECHOSLOVAKIA R Prague at 0100-0155 and 0300-0355 to NA in EE, nx, mx, cmtry,  
 editorials, Monitor Club, fair-good (Eichenhorn, McClure, Stephens, Wiseberg)
- 5935 LATVIA Riga noted with HS Tuesday-Thursday, fair at 2130-2200 (Perry) t 2130-  
 2200\* in unid. lang. perhaps Swedish (Behr)
- 5935t TIBET Lhasa weaker of two stns in CC at 1200; this one weak, fluttery (Sparks)  
 5940 NICARAGUA R Nac with sports, nx, ads, amts in SS at 0310-0558\* (Young) Heard  
 after quake with rock mx, not dual 11875 at 1230, very good (Conner)
- 5950 CHINA Ha-erh-pin poor at 1405 tune with CC chant (Perry)  
 5950 GERMAN DEMOCRATIC REP RBI poor at 0346 with EE Q&A (Stephens)

- 5950 PERU R Arequipa at 0221-0600 with SS amnts, mx, sports, nx (Duba, Straus, Wiseberg)
- 5950t NICARAGUA R Zelaya with pops, slogans, weak at 2355 (Conner)
- 5951- Unid at 2220 with faint AA chanting (Duba) Probably R Cairo, Mark. FH
- 5953 GERMAN DEMOCRATIC REP RBI off freq. at \*0330 in EE nx, cmtry, poor (Straus)
- 5954 COSTA RICA R Casino at 0520 with gravel-voiced anor, pops, better than VOA at this time; pgm in EE (Reynolds)
- 5955 GERMAN DEMOCRATIC REP RBI at 0402 with EE ID by IL, sports with OM (Eichenhorn)
- 5960 CANADA RCI exc at \*0100 in EE nx, 0330 in Eskimo, 0430-0530 in EE, FF and Eskimo (Eichenhorn, Lineback, Fino)
- 5960 GREECE NBI-Aulis, 100 kW, \*1858 with Greek to Europe, strong (Behr, Padula) FB!
- 5965 BRASIL R Guiba at 2330-0300 in all PP nx, TCs, ads, amnts and mx, generally good reception (Hauser, Sparks, Urbelis, Zilmer)
- 5970 CANADA RCI opening to Australia-NZ \*0830, dual 9625, exc (Helms)
- 5970 PERU R El Sol at 1030-1130 daily with Andean mx, ads, many IDs (Lohe, Urbelis)
- 5970 USSR Majak RR HS pgm heard at tune 1430 to 1700\* (Davis)
- 5975 ENGLAND BBC SS svc to NA and SA, exc 0300-0430 with nx, cmtry, talk about sports (Eichenhorn, Lineback, Stephens, Wiseberg)
- 5979 VENEZUELA Ecos del Torbes good at 1140 with bike racing, IDs (Lohe)
- 5980 EL SALVADOR R Nac at 0100-0400 with classical mx, SS, lively IA mx, talk by El Presidente (Imbert, Lineback, Megyesy, Plum) 1158 with marimbas \*1200 with clear IDs, many TCs, strong (Sellers) 1716 with SS amnt (Hauser) 2135 sports (Van Horn)
- 5980t HUNGARY R Budapest in EE to Europe ex-7100, fair at \*2130 (Padula, Straus)
- 5980 SIERRA LEONE RSL exc at 0600-0830 with EE, old pops, many TCs, dozens of ads (Hoogerheide, Sykes, Tuchscherer)
- 5980 USSR RM fair at 0625 with RR and mx, dual 11690 (Guarducci)
- 5987 SULAWESI RRI-Menada fair at 1245-1315 with Indon. talk, mx (Hauser, J. Kolb) t 1336-1401 with Indonesian talk, variety of mx, but no ID (Tuchscherer)
- 5990 ECUADOR HCJB heard with EE religious pgm at 0750-0800 tune out (Tuchscherer)
- 5990 JAPAN NHK fair and clear at 1300 with EE nx (Heutte) JJ GS at 1718 (Hauser)
- 5990 ROMANIA R Bucharest in EE at 0145, dances and a talk about Transylvania (Miller) EE at 0305-0330\* with talks and mx, fair (Stephens)
- 5990 USSR Majak RR HS pgm heard at tune 1430 to 1700\* (Davis)
- 5995 AUSTRALIA RA with EE and pops at 1150 tune, fair (Sellers)
- 5995 MALI Bamako good in FF at 2140-2245 with African chants and LM (Duba, Perry)
- 5995 MARTINIQUE ORTF Fort-de-France heard only once at 1115-1135, good in FF with Inter Martinique; QRM from Australia thereafter; not heard since (Lohe)
- 5995 USA VOA Greenville at 0246 in Breakfast Show, exc (Stephens) 0535-0600 AA with EE amnts, IS, cmtry about astronauts, good (Fino)
- 5995 USA WNIW CBS Spectrum and SS IDs here at 0105; new frequency? (Kamp)
- 5995 VATICAN VR fair at \*0050 in EE with cmtry about immigrants (Eichenhorn)
- 6000t ALGERIA RTVA poor, het QRM at 2245 with AA chants (Herson)
- 6000 AUSTRIA ORF Aldrans, 1 kW, GG talks at 0420-0430, weak and severe QRM (Perry)
- 6000 BRASIL R Inconfidencia at 0000-0330 with all PP; mx, ID, operatic extract, amnts for Minas Gerais, fair (Guarducci, Hauser, Ronda, Sparks) 0800-0900 in PP with clear signals, IDs, amnts, ads; Ye Ed hrd opening \*0900 but seems to operate on early schedule more often (Heutte, Sellers, Urbelis)
- 6003 ITALY RAI good with EE to NA at 0100-0120, nx, Italian mx (McClure)
- 6005 ASCENSION BBC noted at early 2033 dual 15260 with piano mx (Hauser)
- 6005 GERMAN FEDERAL REP(WEST BERLIN) RIAS Berlin with GG man at 0311; bad het from Costa Rica-6000; partial ID heard 0314 mentioning Berlin (Young) Fb for WCNA!
- 6005 CANADA CFCX at 1400-1830 with pops, DJ amnts, ads (Eichenhorn, Fabian, Van Horn) Also 1130 with pops, TCs, the usual (Megyesy)
- 6006 COSTA RICA R Relej at 0000-1300 with earthquake messages, mx, TCs, IDs, fair to good (Field, Nikolich, Ronda, Sellers, Eichenhorn) Rapd talks 1715 (Hauser)
- 6007 MEXICO R Mil OC but no audio detectable at 1714 (Hauser)
- 6010 GERMAN FEDERAL REP DW exc at 0200 with EE cmtry on Sweden (Eichenhorn)
- 6010 ITALY RAI fair to very good at 0100-0120 with woman reading the nx, light mx (Eichenhorn, Imbert, Whaley)
- 6010 MALAYSIA BBC Tebrau at 2230 CC, 2300 VV, dual 7180; QRM (Behr)
- 6010 PERU R America under heavy DW with flute mx at 0210 (Ronda)
- 6015 CZECHOSLOVAKIA R Prague at 2030 in FF, 2100 Czech, fair (Behr)
- 6015 DOBROCANESE VOA-Rhodes at 2100-2130, fair in EE with nx, mx, talks (Urbelis)
- 6015 SWITZERLAND SBC fair with EE ID 0457, into Italian 0500 (Lineback, Guarducci) also Italian at 0345-0415, fair with unid QRM (Fino)

- 6019.8 PERU R Victoria at 0644-0700\* with LA mx, man ancr in SS (Tuchscherer) 1112 on 15 Jan with SS nx and ID, some GRM (Lohe) 1035-1130 with mx, TCs (Urbelis)
- 6020 UKRAINE R Kiev with HS IS 1545, talk, fair (Behr) t RK presumed with IL RR talk at 0640, fair (Perry)
- 6025 ITALY RAI with IS 1750, then GG; 1935 Hungarian; dual 5990 (Behr)
- 6025 MALAYSIA RM-Kajang fair at 1415 with CC talk by man (Perry)
- 6025 NIGERIA Emgu fair with EE nx 0600, ID, vernacular and pops past 0654 (Perry, Young)
- 6025 POTUGAL RP fair with GRM at 0210-0230 with EE cntry, mx (Archard, Eichenhorn)
- 6025 USA AFRTS exc at 0100 with EE nx (Stephens)
- 6025 UZBEK SSR R Tashkent in EE 1200-1230, into FE langs., nx, cntry; ID signal every half hour on chimes, duals 9540 (Hoogerheide, Miller, Nikolich) Patterson, Sykes)
- 6030 GERMAN FEDERAL REP SR- Muhlacker fair at 1630 with GG amat & mx (Behr)
- 6034 Unid at 1619-1725 with man and woman singing Thai song; listed by FIBS on 6033, Sathaniwithayu Sieng Prachachan Haeng Prathet Thai (Churchill, Hauser)
- 6035 BRASIL R Globo with PP mx, TCs, ads at 2300-0000 (Urbelis, Zilmer)
- 6035t INDIA AIR-Bombay at 0140 with sitar; strong but fade after 0200 (Sparks)
- 6035 POLAND PR with 0315 EE ID and into Polish, poor-fair (Imbert)
- 6035 USSR Vladivostok with RM HS in RR from 0100 fade-in; sometime before 1400 joins Majak program; fade around 2030 (Davis) t with Majak IS 1659 (Hauser)
- 6037 COSTA RICA Faro del Caribe at 0300-0430 with EE religious pgm (Megyesy, Perry, Zilmer) 0900 LA mx (Mayer) 1156-1230 with rel pgms (Miller, Patterson)
- 6040 COLOMBIA LV de Tolima fair with SS amnts, TCs, Xmas 1030-1230, sometimes has a het (Patterson, Urbelis)
- 6040 GERMAN FEDERAL REP DW fair at 0130 with EE cntry dual 6010 6075 (Imbert)
- 6040 MOROCCO VOA-Tangier fair at 0300 with IS, ID, Breakfast Show in EE (Imbert)
- 6045 LIBERIA VOA-Monrovia good with EE interview with Raquel Welch (Stephens) 2230-0000\* with nx, talks, mx, good (Urbelis)
- 6050 ECUADOR HCJB exc 0215 with Xmas mx, SS ID (Lineback) 1914 hymns (Hauser)
- 6050r HONDURAS R America 0400-0900 in SS, mx, futbol, TCs, ran late past 0900 on New Year's (Lineback, Reeves, Schnabel) 1930 with SS sports, cycling (Hauser)
- 6055 BRASIL R Panamericana at 0030 with pop mx and PP IS (Sparks)
- 6055 COLOMBIA R El Pacifico with RGN net pgm Noche Colombiana at 0503, exc (Helma)
- 6055 JAPAN JO22-Tokyo good at 1830 past 1930 in JJ mx and talks (Behr)
- 6055 RWANDA R Rwandaise after 0400 and at 1551 with local mx pgms, fair (Churchill)
- 6055 KUWAIT RK mixing with Rwanda at 0408, AA talking and vocals, GRM (Churchill)
- 6058 USSR RM-Komsomolsk with EE nx and ID at 0300, QSL for Komsomolsk (Patterson) FBI
- 6060 CUBA RHC with fast mx, DJ type show, rather different from usual, SS 0450 with exc strength (Lineback)
- 6060 ITALY RAI with Italian pgm 0600-0700, list Rome winter quarter (Churchill, Hauser) 1930-1955 with EE nx and mx to Europe, fair (Urbelis)
- 6065 BRASIL R Nac Brasilia very good with PP talk by man at 1000 (Perry)
- 6065 COLOMBIA R Super fair with mx, talks, SS amnts and IDs 1000-1155 (Sellers, Urbelis)
- 6065 ETHIOPIA ETLF at \*0415 with IS, Amharic, mx, poor under Minsk (Nikolich)
- 6065 SPAIN RNE poor with EE mx and IDs 0100-0300 (Lineback, McClure, Stephens)
- 6065 SWEDEN Stockholm with EE to Europe 1600 and 2105, good (Behr, Heutte)
- 6065 USSR RM in EE to NA at 0030-0400 with cntry, nx, Moscow Mailbag, IDS; not listed and Mrs Stepanova will not QSL (Behr, Eichenhorn, Lineback, Nikolich, Perry, Stephens) 2112 with talk on N Vietnam, fair (Van Horn)
- 6065 USSR R Vilnius fair with nx, talks; mixes with Spain 0030-0100 (Urbelis)
- 6070 BULGARIA R Sofia mixing with GFRX, Italian 2130, EE 2200, nx (Urbelis)
- 6070 CANADA CFRX at 1130-0300 with CFRB relay, DJs, nx, ads, mx, talk pgm (Megyesy, Eichenhorn, Fabian, Imbert, McCall, McClure, Van Horn, Lineback, Wells)
- 6070 ECUADOR R El Mercurio dominating CFRX, pops, IDs, TCs to 0516\* (Behr, Dexter)
- 6070 INDONESIA RRI-Djajapura strong with chants, jazz; chimes IS, nx 0900 (Sparks)
- 6070 USSR Khabarovsk with Majak pgm at 1530 tune to 1900\* (Davis)
- 6075 HONDURAS LV del Junco audible 1738 with SS mx and ID (Hauser)
- 6075 GERMAN FEDERAL REP DW with EE nx, cntry, mx dual 6010 6040, GRM from Sutatenza but good strength \*0130-0150 (Rydell, Stephens) 2101 GG to LA, IDs (Van Horn)
- 6075 GREECE NBY-Aulis, 100 kW, 1600 in Greek, 1630 IS, unusual reception! (Behr) 2200 with Greek to Japan, but soon some hvy GRM from DW (Padula)
- 6075 ITALY RAI at \*0446 in Lithuanian, GRM (Hauser)
- 6075 USSR RM fair with VOA GRM with EE to WCHA 0400, nx (Sellers)
- 6075 USA WNYW fair with GRM, rel pgm, LM, EE at 2100-2245 (Archard, Van Horn)

- 6077 HONDURAS LV del Junco at 1152-1208 with ranchera, ads, poor with het (Paterson)
- 6080 ALGERIA RTVA good with AA talks, chants 0625-0715 (Hauser, Nikolich) 2030-0000\* with AA chants, mixing with RSA, fair (J. Fisher, Mayer, Ronda, Urbelis, Zilmer)
- 6080 GERMAN FEDERAL REP VOA-Munich with Polish 0513, IS 0514, local ID (Kamp)
- 6080 SOUTH AFRICA R RSA with EE to NA at 0035, our local 10:35 a.m.1 (Padula)
- 6080 USSR Possibly Kosmosolsk with Majak pgm \*0830-1830\* (Davis, Wells)
- 6085 CANAD RCI EE to NA exc at \*0100 with nx, talk (Reynolds, Rydell, Stephens)
- 6085 CONGO R Kisangani audible after CBC off 0416\*, local mx, FF-vernaculars, talks and possibly nx 0430; IS on percussion instrument 0437, 0438, 0440 (Ghurhill)
- 6085 ESTONIA Tallinn at \*0800 with IS, mx or talk, poor (Young) RR classical mx, amts and the like; time pips at 1300, fair but had fade (Patterson)
- 6085 GERMAN FEDERAL REP in GG 0215-0400 with talks, ID, very good (Eichenhorn, Wells)
- 6085 GERMAN FEDERAL REP Bayerische Rundfunk at 0657-0730 fade with piano concerts, other classical mx, GG talks; nx headlines on the hour, ID (Perry) FB, Ralphus!
- 6085 NETHERLANDS RNL at \*0500 in EE with nx, mx, letterbox (Eichenhorn, Kosiomkowski)
- 6085 INDIA AIR-Madras at \*1300 with IS (J. Fisher)
- 6085 NETHERLANDS ANTILLES RNB dual 11715 at 0500-0620 with EE to NA (Wiseberg)
- 6086 COLOMBIA Ondas del Darien at 2300-0100 with SS, mx, fine (Heutte, Perry) 1015-1230 with SS ads, fiesta mx, TCs, IDs (Lohe) 0445 ID and mx (Sparks)
- 6087 TAIWAN BCC at various times 1400-2030 in CC talks, mx, pips on the hour; seems to be new high power xmtr (Behr, Conner, Hauser)
- 6090 LUXEMBOURG RLI at \*0000-0630 in EE with pops, DJs, nx, GG at times (Reynolds, Rydell, Urbelis, Yaron)
- 6090 NIGERIA RTV Kaduna at 0645 past 0700 with American soul mx, EE-vernacs (Perry)
- 6093t SCHALIA R Mogadishu under hvy GRM at \*0300 with NA, chants (J. Fisher, Ronda)
- 6095 BRASIL R Difusora Sao Paulo with PP mx and ads 2330, DW GRM (Urbelis)
- 6095 COLOMBIA LV del Centro at 1045-1130 with SS mx, amts, TCs (Urbelis)
- 6095 FRANCE CRTF Xmas cmtry, good at 0622in FF, ex-6100 (Hauser)
- 6095 VOA--possibly Kavalas--RR 2100-2200\* (Behr)
- 6095 IRAQ R Baghdad fair at 0305-0400 with AA chants and amts (Urbelis)
- 6095 Unid with AA at 1359, laughably hand-keyed time pips; ID but not Iraq (Hauser)
- 6100 GERMAN FEDERAL REP RCI via DW exc at 0500 with GG nx and IDs (Stephens)
- 6100 FRANCE CRTF fair at \*0600 with FF nx (Guarducci)
- 6100 GERMAN FEDERAL REP DW exc at 0400-0500 in GG, IDs, nx, mx (Eichenhorn, Lineback)
- 6100 YUGOSLAVIA R Belgrade fair at 1600 with FF, 1630 in GG (Behr) 2000-2027 in EE with nx, cmtry, mx (Urbelis) \*2200-2212\* with EE nx and mx (Cwikla, Perry, Straus)
- 6105 COLOMBIA R Vision exc in SS nx, amts, TCs, ads (Urbelis) 1130, that is
- 6105 MEXICO Sistema R Yucatan after R Vision fade, 1200-1300 with ads, nx, dozens of time checks, all SS (Heutte, Hoogerheide, Lohe) mx at 1713; fair (Hauser)
- 6105t TANZANIA Dar-es-Salaam very weak with African chant at 0405 (Perry)
- 6105t USSR FF light mx and IS 2222 (Tuchscherer)
- 6110 ENGLAND BEC good to exc at 0300-0415 with EE nx, cmtry (Eichenhorn, Lineback, Stephens)
- 6110 HUNGARY R Budapest at 1930 in EE, 2000 in lang (Behr, Tuchscherer)
- 6115 BRASIL R Tupi poor at 0020 with PP sports pgm (Zilmer)
- 6115 COLOMBIA LV del Llanos 0449-1130, apparently AN, LA mx and IDs, New Year's greetings (Hauser, Tuchscherer, Urbelis)
- 6115 CONGO LV Rev Congolaise at 2115-2258\* with FF amts, mx, NA (Perry, Ronda)
- 6115 MEXICO XEUDS at \*1700-0300\* with SS and classical, pop mx, IDs (Davis, Dickson, Hauser, Whaley)
- 6115 USSR Majak pgm hrd 1510 until wiped out by XEUDS 1700 (Davis)
- 6120 HAITI 4VEH with EE rel pgm at 1150 (Sellerw) SS hymns 2039, het (Hauser)
- 6120 SWITZERLAND SBC in EE 0150-0216, talk about Salvation Army, then SS (Lineback)
- 6125 BRASIL R Nac at 0025 with PP sports (Zilmer)
- 6125WF CANADA RCI exc with EE to Europe 0700, ex-5975, FF 0730 (Padula, Tuchscherer)
- 6125 CHINA RP after VOA-Delano leaves, 1700-1735\* with CC (Davis)
- 6125 GERMAN DEMOCRATIC REP RBI at 1730 in FF to Africa, GRM (Behr) 2250 in EE with talk about 50th anniversary of USSR, but barely audible (Archard)
- 6125t HONDURAS LV de Supaya, very weak with Brazilian type mx at 1911 (Hauser)
- 6125.5 Unid hetting 6130 at 2048 with mx, very weak; seemed to go off 2200\* (Hauser)
- 6130 CANADA CHXK in EE with usual DJ fare, mx, ads, TCs, nx 0230-0600 and 0900-2230 (Megesy, Nikolich, Perry, Helms, Imbert, Patterson, Wells, Ronda)
- 6130 GHANA Tema in African svo, EE with mx 2115-2210 (Perry, Ronda)

- 6130 NORWAY NRK with EE ID and Norwegian mx #0500-0530 (Whaley, Tamron)  
 6130 USSR Novosibirsk heard with Majak pgm at 1600-2000\* (Davis)  
 6135 ALBANIA R Peking via Tirana fair with SS mx 2300-2310 (Mayer)  
 6135 POLAND PR hrd poor-fair with EE 0300, Polish 0333 (Cwikla, Mayer, Zilmer)  
 6135 TAHITI CRTF-Papeete often hrd 0400-0600 with FF and Tahitian amnts, IDs; native and rocknroll mx (Mayer, Perry, Zilmer)  
 6140 AUSTRALIA VLN6-Perth noted 1015-1050 (Urbelis, Heutte) 1100-1350 with EE amnts, horse racing, mx (Kirchenhorn, Wiseberg)  
 6140 BURUNDI LVR mx in Kirundi by man at 0411, fair and clear (Churchill) t with African chants 045-0415 and later, strange IS at 0400, lang. talk (Perry) FBI  
 6140 PAPUA-NEW GUINEA R Wewak here by mistake once 0612-0628 (Sundy)  
 6140 COLOMBIA R Vision good with SS ads, mx, IDs at 1020 (Lohe)  
 6140 SPAIN RNE fair at 0900 with IS, IDs, SS mx and amnts (Urbelis)  
 6145 BRASIL R Nac Rio good at 2345 with PP TC, ID, mx (Conner)  
 6145 GERMAN FEDERAL REP DW fair at 0435-0555\* with EE to NA, mx, mx, talks dual 6075 9545 9765 (Guarducci, Wiseberg)  
 6145v NIGERIA NEC-Calabar at 0606 in EE nx, ID 0610, soul mx (Perry) 2100-2305\* with African mx, various IDs, local mx on the hour (Mayer, Sykes)  
 6147 HAITI R Citadelle at 2308 and 0441 with mx, def IDs, ex-6155 (Hauser) FB, Glenni  
 6150 AUSTRALIA VLN6 at 1010-1130 with EE nx, amnts, mx (Urbelis)  
 6150 COSTARICA R Atenea at 0430-0440 SS ID, mx, ads (Lineback) 1010-1300 with ranchera and request pgm, IDs, TCs, all SS (Perry, Lohe) Poor at 1730 (Hauser)  
 6150 ENGLAND BBC VOA-Woolferton (sorry 'bout that) with Hungarian at 2055-2100, Polish at 2130-2145 with nx (Mayer, Sykes)  
 6150 GERMAN FEDERAL REP DW with Italian 1725 dual 7130 7150 (Behr)  
 6150t SUDAN Omdurman in AA with good level at 0440 (Dexter)  
 6155\* AUSTRIA ORF in EE to NA at 0030-0045 with Report from Austria (Fabian, Whaley)  
 6155 JAPAN FEN at 1300-1400, mx anc is NRC's own Bruce Reynolds who sez stn getting hard to verify; he leaves in Sept; advise you report now, no return postage necessary! (Hauser, Hogerheide, Miller)  
 6159 GUATEMALA R Nuevo Mundo very weak at 1830-1957 with het (7x88)(Hauser)  
 6160 CANADA CKZN with EE talk, mx, ID, TC 0233 (Nikolich) 0950 wx, C&W (Sellers) 1340-1400 with pops, good (Cwikla)  
 6160 CANADACKZU with nx, sports, mx 0600-0630 (Whaley)  
 6160 COLOMBIA Em Nueva Granada at 0115-0130 in SS with ID, mx, ads, nx from Managua, fair (Lineback) 0830-1130 in SS with mx, amnts, TCs, mixing CKZN (Urbelis)  
 6160 VENEZUELA R Canaima at 1005-1130 with SS ads, chimes, amnts, TCs (Urbelis)  
 6165NF CANADA RCI good with EE at 2123-2130 with talks, nx (Tuchscherer, Van Horn)  
 6165 MEXICO LV de America Latina fair-good with SS amnts, mx, ID (Lineback, Zilmer)  
 6165 SOUTH VIETNAM VTVN at 1018 in VV with talk, mx, four pips at 1100 (J.Kelb)  
 6165NF SWEDEN R Sweden ex-6175 at 0030-0100 and 0200-0230 in EE to NA, nx, cmtry, SCIX (Heutte, Umbert, Perry, Sykes, Whaley, Urbelis, Zilmer)  
 6170 HUNGARY R Budapest at 1730 in GG, 1745 EE, 1800 Italian (Behr)  
 6170 MOROCCO Sebba Aoun with AA chants 2300-2350, very good (Urbelis, Zilmer)  
 6170 PHILIPPINES VOP at 1413 in EE nx but jammed (Hauser)  
 6170 VENEZUELA R Nac exc at 1130 with nx, TCs, IDs, educational pgm (Lohe)  
 6175 BRASIL R Guarani at 2330-0100 in PP with ads, IDs, mx, talks (Conner, Perry)  
 6175 GREECE NBI-Julis with Greek chorals, QRM, talks, #0500-0600 (Churchill) FBI  
 6175 SWEDEN R Sweden with EE to NA 0030, 0200 (Lohe, Sellers) of 6165  
 6175 USSR RM at 2155 in EE to Eur, good (Perry, Van Horn)  
 6179 VENEZUELA R Turismo at 1000-1204, usual LA stuff, QRM from TGWB-6180, all SS (Patterson, Reeves, Tuchscherer, Urbelis)  
 6180 ENGLAND BBC WS in EE, poor at 2008 with Moscow splash (Van Horn)  
 6180 GUATEMALA LV de Guatemala at 2340-0300 with SS nx, mx, IDs (Lineback, Nikolich, Ronda, Sellers) 1204-1214 with LA pops (Patterson) Good 1709 (Hauser)  
 6185 BRASIL R Bandeirantes in PP at 0055-0130 with mx, nx, mix Budapest (Urbelis)  
 6185 LIBYA Tripoli at 1700 with AA nx, mx, cmtry (Wooten-Morocco)  
 6185 MEXICO LV del Maestro with Brazilian mx 1635-1700; was not on during holidays (Hauser) t with peppy orchestrals and SS talks under VOA, no ID noted (Perry)  
 6185 NORWAY NRK at 0015-0030\* with Norwegian request pgm, EE ID at close (Zilmer)  
 6188 IRAQ R Baghdad with 1630 Hebrew pgm, chants, fair (Behr)

On the home stretch...please excuse numerous typos of ye olde Two Finger Terror

- 6195t GERMAN FEDERAL REP Presume SFB at 0520 in VOA OC, clearly in GG (Perry)  
 6190t VATICAN VR at 2045-2100 with EE religious pgm to Europe (Sellers, Urbelis)  
 6190 USSR Vladivostok with RR ES at \*0600-1930\* (Davis)  
 6195 MALAYSIA BEG-Tebrau with EE WS at 1700-1820\* (Davis) Distinguishable at late hour of 1708 (Hauser)  
 6195 NORWAY NRK with Norway This Week at 0200-0240, very good (Urbelis)  
 6195t NIGERIA Unid outlet with EE nx, IDs 0600-0640, African mx, weak though (Field, Sparks) Perhaps Lagos? 4990 not heard for months, FH  
 6195 SOUTH AFRICA Springbok R good to exc at 0150-0600 with ads, mx, EE-Afrikaans DJ, ad for Grandpa's Headache Powder, Lux Cosmetics, Jungle Cats, Blossom oleo, etc. (Archard, Lineback, Mayer, Palmer, Perry, Reeves, Wiseberg) 0042 with stronger signal than 6080; absurd reception as is 10:42 a.m. in the middle of summer here! (Padula) 2030-2215 with ads, EE, mx (J.Fisher, Van Horn) Jungle Cats  
 6195 TUNISIA RT at 2020-2300 with AA chants (Mayer, Ronda, Straus, Urbelis, Van Horn)  
 6200 ALBANIA RT at 0130-0400 in EE harangues, 'nx' (Lineback, Marshall, Sellers, Wiseberg)  
 6200 USSR Majak pgm from 0540 tune to 1700\* (Davis)  
 6206 INTERNATIONAL WATERS R Nordsee at 2200-0610 and 1000-1100 with rock mx, DJs, ads and nx, DX pgm, fair to poor (Helms, Imbert, Straus, Fabian, Wiseberg)  
 6208 ALBANIA RT with EE nx at 0037 and ID (Young)  
 6210 Unid with US pops and EE male ancr but rotten modulation at 0120-0200 9 (Dexter)  
 6220 ENGLAND: PIRATE R Gemini Sunday only with pops 1030, nice QSL in hand (Martin-Eu)  
 6220 ENGLAND: PIRATE R Venus North at 1345 Sunday with ID and pops (Martin-Eu)  
 6230 ENGLAND: PIRATE R Atlantis International at 1013-1040 with pops; reports go to Dept A3M-Birm, 23 Dorset Gardens, Brighton-EM2, IRL Sussex (Martin-Eu)  
 6250 EQUATORIAL GUINEA R Santa Isabel poor at 2145 with SS and mx (Straus)  
 6255 PAKISTAN Karachi in lang nx 1330, beacon QRM (Martin-Eu)  
 6255 AUSTRIA Austrian Army xmtr gud with pop selections 1320 (Martin-Eu)  
 6270 CHINA RP with reliable and factual nx in EE 1229 (Martin-Eu) Sic. FH  
 6300 ENGLAND: PIRATE R Geditus (or something like tt) at 1050 with test xms; new cml stn, some jamming; reports to Box 380, 22 Coldershaw Rd, W Ealing, London, W13-9DX (Martin-Eu) FH, good luck with QSLs!  
 6325 ENGLAND: PIRATE R Lancashire heard New Year's with a test at 1045-1105\*, asking reports at Dept 314, Birm, 23 Dorset Gardens, Brighton, Sussex (Martin-Eu)  
 6340 TURKEY Ankara Polis Radyosu at 1845 in Turkish mx (Martin-Eu) Ever ECNA? FH  
 6580 NORTH KOREA Pyongyang at \*0800 with IS, EE ID by woman, program summary and into nx at 0805; strong (Young)  
 7065 ALBANIA RT with EE at \*0000 and \*0630, nx, very good (Eichenhorn, Zilmer)  
 9619t TRUCIAL STATES Abu Dhabi with AA and talking, shortly faded (Sparks)  
 9620 SOUTH VIETNAM VTVN strong at 1145-1600 with VV military songs, nx, IDs (Sparks)  
 15273 URUGUAY SODRE with light classical mx and SS armts at 2340, good (Henderson)

Whew, it's all finished! DF asked me to hold this down this month to five pages (count 'em, we got eight!) but 49 meters went crazy during December. Ernie Behr sees nothing like it has happened in 17 years of DXing. Personally I didn't notice anything unusual but apparently trans-polar absorption was so reduced that all-day reception was possible mainly in the northern regions. 60 meter DX was fantastic for three or four days right after Xmas. From the reports it seems that everyone took quite a lot of holiday time for dial spinning with excellent results. That is encouraging! I had twice as many reports this month as last, for the same frequency range. So if your favorite item was chopped up or if it didn't make it at all, please forgive. Ye Olde had quite a time of it this month! We'll leave the rest for DF at HQ, muchas gracias amigos; hasta febrero 73-Fred Heutte, Jr. WDX3FH-WA3QIA 1600 Newton St NE Washington DC 20018

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**HELPING HAND** For Sale, HQ180A, 2½ yrs old, excellent physical & electrical condition. \$285 with S-200 speaker. Receiver has been modified with Mixer Trimmer, as per Gordon Nelson of NRC, for improved MW reception. Has coax connectors for balanced FET Alt-azimuth LRP Antenna...Also, Drake 2-CQ Q Multiplier, \$15 used. Ameco PCL-P preamp, cov-ers 1.8-54 MHz, \$20 used. Also, Heath HD-20 100 kHz Xtal calibrator, \$8.  
 Write Steve Bohac, 97 Shaler Avenue, Fairview, NJ 07022

\*\*\*\*\*Members can obtain information on the operation of the SX190 receiver in a 6 page report available from Ed Shaw, 621 Burrell Avenue, Norfolk, Va 23505. Be sure to send along a (large) SASE.

- 6195 UNID Afr. here 0615-0700 under fading SABC; Tunis unsked now; Gerry Dexter forwards ITU info saying that NBC will erect a station from Sokoto, music sounds W. Africa (Perry)
- 6200 USSR RR tx, Mayak IS at 0559, site? (Perry) Credit item below to Bob Bundy
- 6203MF CLANDESTINE Pathet Lao has reappeared here ex-6199 after 1 weeks absence
- 6210v INT WATERS RNI now up here w/blockbuster signals 0525 (Perry) 1630 pops, EE annc, F (Behr) 0545,0809-0830 DD, Pop mx (Whaley, Carlsen)
- 6210t PR CHINA RP 2315 CC tx by woman, maybe//6270,9945 (Conner) 2315-2327\* CC? m+w tx, another day w/anthem 2300(Lineback)
- 6225 PR CHINA 1350 CC rev mx(Conner)HS t/i 1700 till 1730\*, CC (Davis)
- 6232 EGYPT? 2255 AA mx, 2300 anmt, not //9475,9850, comprehensive world nx to 2323 theme mx, anmt, then AA chants. nom 6230? (Hauser)
- 6250 EQUATORIAL GUINEA Sta. Isabel 2304 chimes,midnight TG, SS ID, New Years message from govt official, no sign of WMR New Years Eve special (Hauser)
- 6270MF PR CHINA EE FS at 1330t/i, sked 1300-1355(Bundy)YL yak 2102(Smallshaw)
- 6345 PR CHINA 2050 list PP svce, operas, //6430 (Smallshaw)
- 6500t PR CHINA Sining Regional 0050 CC gone by 0100, hrd also by Jamison(Reynolds)
- 6540 UNID ASIAN noted 2045 w/marches; KCBS? (Smallshaw) no, KCBS is on 740, hi!
- 6565t USSR 1150RR lang pgms, beautiful mx, seems Like USSR HS Nfgone 1630(Bundy)
- 6580 N KOREA Pyongyang 1720 AA tx, martial mx, //3560 (Bundy)
- 6808 USSR (Eur) R P+P 1728 ~~mlk~~ USSR USB feeder(Bundy)feeder in CC
- 6900 TURKEY V Meteorology 0505 Turkish mx, F-G, buried by ute 0510 (Perry)
- 6955 PR CHINA RP JJ at 1345 (Perry)
- 7015 CLANDESTINE VNFUNK this freq absent/missing for at least a week, 12005 was silenced for a couple days but has returned, Dec25-30 (Bundy)
- 7035MF PR CHINA RP 0000-0055 PP to Brazil, 1st noted via 14070harm.(Bundy)
- 7039MFV N VIETNAM VOV FS here SEA langs to 1600\*, EE POW tapes to 2258\*, into Thai or Khmere at 2300 22,23 Dec. (Bundy)
- 7060 PR CHINA RP RR 1500-1555(Davis)
- 7064 ALBANIA Tirana 0652 t/i 25 Dec EE pgm (Bundy)
- 7080 N VIETNAM 1300 EE FS //7040,7800v,10040v,10073.(Not hrd 4400,4550,12030 on 30 Dec. (Bundy) cf 7039v)
- 7080 PR CHINA CC HS from 1600 t/i till 1755\*
- 7105 MALGACHE REP RTVM pop mx, FF anmts 1508-1520, ID 1601, audible until 1606 fade. Poor level but occasionally S3 (Churchill)
- 7106 THAILAND TTV many days 1218-1240 TT annc, MOR mx, lite mx, pops (Perry)
- 7110 DODECANESE ISLANDS VOA EE nx fr/Washington, new service (Nikolich)
- 7115 UNID t/10610-0700\*, seems E Eur lang, maybe RFE, but couldnt match ID in WRTH though, QRM station //15245 believed Zaire (Bundy)
- 7120 MALAYSIA BBC FES 1130 s/on VV, nx (Kolb)
- 7140MF PR CHINA 1155 woman inCC, five low and one high time pip at 1200, then EIR, ID(seems like Inuyah JKT), into m+w tx in CC. Another set of pips heard behind this maybe Ambon? This has never been reported(Heutte)
- 7155 VATICAN VR 1805 Byelorussian, 1820 Lithuanian, G (Behr)
- 7160 RSFSR(As) Pertopavlovsk-Kamchatsky t/i 0800 to s/off after 0830, pgm is not Mayak. Also \*1700-2030\* Mayak (Davis)
- 7170 USSR R P&P 1100 IS, into lang nx (Imbert)
- 7170 NEW CALEDONIA Noumea 0630-0645 EE rock, loud FF DJ, G (Mayer)
- 7180 MALAYSIA BHCFS 2320-2332t/out, II nx to2330 EE ID into EE by Radio (Bundy)
- 7185 RSFSR(As) Chita? Blzgovschensk? CC hd t/10725-0830t/out, t/i 1430-1800\* Returns\*1900-2200\*, all Chinese (Davis)
- 7200 RSFSR(As) RR HS \*0130-0615\* RR HS, \*0800-1630\* Mayak, \*1730-2200\*Mayak, has a "local" pgm in dialect at 0315-0400&0415-0500 when is // 12030(Davis)
- 7205 RSFSR(As) RM EE \*0100-0230\* (Davis) To NA?
- 7215 SWEDEN EE ute marker 12/17 at 1343-"This is the Swedish Telecommunications Administration, testing on a frequency between 5.95 and 26.1 mhz a new 500 kw shortwave broadcasting transmitter, SDZ2(??), located at Karlsborg, Sweden". F, het on low side; 500 kw-winter cx make Eu on 41m at this time possible. No mention of R Sweden so a case might be made for a separate station during "test" period (Hauser)
- 7215 GREECE HNBI, Greek speech to Aust 2115, E, but now blocks AIR GOS (Padula)
- 7225 UNID AA mx 0550 t/i, suspect Morocco, 15532 23 Dec (Bundy)
- 7235 NIGERIA ECS 0600 5 min EE nx, then mx (Tuchscherer)

- 7240 NORWAY Tromso, \*0500 Norwegian ID, into mx, F (Wiseberg)  
 7245 AUSTRIA OR 1015 EE, mx, ID, P (Sellers)  
 7245 S VIETNAM VTVN YL in VV 1240, P (Perry)  
 7250 VATICAN VR Latin Mass 0745-0800, tx to 0814\*(Kolb) 0000 25Dec. EE/FF papal Christmas pageantry (Zilmar)
- 7265 W GERMANY Sudwestfunk 0348 TT(Tone-tests), 0353 IS, 0354 GG ID, QRM RM(Kamp)  
 7270 S AFRICA R RSA \*0357 IS, ID inEE, into FF (Imbert)  
 7293V MONACO, TWR EE \*0720-past 0830 EE rx (Sykes, J Kolb, Yamron, Magyesy, Plum, Richenhorn) Rx hint, "Keep rx away from large metal objects" on DX pgm(Kolb)
- 7313 CLANDESTINE V Pathet Lao t/i 1105-t/o 1205 mostly Laotian, w/VV 1145-1200, //4660,7480 (Bundy)
- 7340NF PAKISTAN EE to UK, \*2000-2145\*, well heard (Hagen)  
 7360 PR CHINA RP \*1300 RR ID+mx (Smallshaw) Credit item below to(Davis)  
 7360 RFSR (As) RM CC \*2300-0200\*, also a Eur USSRmxtr on this freq w/EE+RR  
 7380 RFSR (As) Magadan hrd earliest at 0140, still going at 0805 bed-time!  
 All RR HS, not Majak (Davis) cf Jan 1973 LN for many RR HS skeds  
 USSR RR HS 0150 RR tx by YL (Smallshaw)
- 7390 CLANDESTINE Liberation Radio1116-1125 VV HS, VV mx+tx, IDs 1122, //10222, 25 Dec, FS not hd 25 Dec; this freqnot used 30 Dec, but back 31 Dec(Bundy)  
 7420 BYELORUSSIAN SSR? Minsk? EE tx 2337, ID 2338, but 2330\* on next day //9685, 11980 (Young) 2345 t/i Moscow EE (Bundy)  
 7440 PR CHINA RP RR \*1500-1555\*(Davis)  
 7460 CLANDESTINE \*1000a, "Vietcong" mentioned 1005 further evidence of this ones probable pro-West orientation(Kamp)S Sea mx 1112, Strong w/ FF voice into Indo27 lang, piano mx to 1117 (Young) (Bundy)
- 7470 CLANDESTINE Liberation Radio FS 0930,1000,1030, etc. silent 24-30 Dec/  
 7480 CLANDESTINE V Pathet Lao t/i 1108 just able to make out Pathet Lao under Peking JJ service w/extreme difficulty (Bundy)
- 7504 PR CHINA HS-1 1130 CC tx by woman, //7520, both hrd, both weak(Sellers)  
 7510 N VIETNAM VOV silent here and 9838,10120 24-30 Dec (Bundy)  
 7520 CLANDESTINE CC lang s-on with short CC vocal selection and s-off w/Inter-nationale. ID seems different than old "Fighters", but still have not taped clear ID. On 31 Dec sked was noted as follows \*1000-1010\*,\*1045-1055\*, \*1100-1110\*, \*1115-1125\*, \*1130-1140\*, \*1145-1155\*, \*1245-1255\*, \*1300-1310\*, \*1414-1425\*, some xmsns jammed, some were not, but severe QRM de Peking HS after 1100(Bundy)
- 7545 N VIETNAM VoV silent here 30 Dec, VV or similiar 1120 25Dec, //10015, 10095(Bundy) Bob notes that recent US bombing raids tend to support theory that VoV xmtrs are indeed located elsewhere, Cambodia for example. It seems that I remember hearing something to the effect that they were either off the air or operating at reduced capacity. Ideas?  
 7620 PR CHINA RP EE to Afr 1500-1655, 1700-1755, //9860(Davis)  
 7660t PR CHINA t/i 1505 RR over jammers likely Peking(Bundy)  
 7720 UNID t/11912-1935 LSB Feeder in FF sounds like a HS, w/ FF+EE pops(Bundy)  
 7798NF N VIETNAM VoV ex-NF 7814, 1140 Khmer?, many//s, to 1600(Bundy)25Dec  
 7814NF N VIETNAM VoV 1230,1430,1500 new FS outlet, JJ 1230, 1430, II at 1500, //10039, maybe this is ex-15018v; no sign Laotian station hereAug/Jul(Bundy)
- 7817 UNID UTE t/i 1110 Filipino USB ute, no sign VoV, Laotian (Bundy)cf Dec LR  
 8000 JAPAN JG2AE, \*2059-1059\*, broadcast format similiar to JJJ, heard any-time in Japan (Matsunura) cf Dec LR
- 8630 LIBYA El Beida 2200 AA mx+tx (J Fisher) (Bundy)  
 8635 UNID t/i 1450-t/o1505 seems AA mx+tx, vy weak, badly fading, not hd 1600/  
 8741 ESPIONAGE YL EE 4-digit mechanical 1413 on 12/21, faraway sound(Hauser) What is 4-digit mechanical?
- 9020 PR CHINA 2000 CC tx by m+w, G (Duba)  
 9030 PR CHINA RP 0025 SS to SA, mx+comm, F (Duba)  
 9340NF PR CHINA RP 1215 t/i, Khmer service, //9920 et al (Bundy)  
 9350 ALBANIA Tirana \*1500 GG, ID 25 Dec(Hauser) nope, make that credit(Bundy)  
 9375 RFSR (As) Khabarovsk t/i 2330 till past 0800, all Majak (Davis)  
 9380 PR CHINA RP 0100 EE, "so-called mx", G, QSB (Heutte)  
 9403v CLANDESTINE 2310 man in SS, over-modulated, some rx 2314, comment by m+w at 2348(Young)  
 9455 EGYPT t/i 0535-0605t/o AA tx, believe this to be gen HS (Bundy)

- 9460 PAKISTAN Karachi 1958 IS, s/on, EE nx, P (Sellers)  
 9470 NEPR CHINA t/i 1013 Malaysian pgm here on NF (Bundy)  
 9500 USSR Magadan RR HS \*1900-past 0800, not Majak (Davis)  
 9510 TAIWAN BCC \*1700FF, 1800EE, 1900\*; vy square mx (Whaley, Hauser, Davis) (Bundy)  
 9510 ALGERIA RTVA AA chants to 2200\* w/anthem, new time? (Behr)  
 9520 UNID 0130\* strong jamming here, QRM to Pt Moresby; Moscow CC or Peking RR/  
 9525 INDIA AIR ALLIARH EE various times between 1745 and 2200, EE nx, mx, wx,  
 heard 2100, 2200 (Ronda, Imbert, Yamron, Zilmer, Nikolich, Wooten, Reynolds  
 9535 SARAWAK t/i 0200, t/0300 RM, nx on past Olympics, ex-9745(Padula)  
 9535 MFW GERMANY 0510 GG to WNA, rx on past Olympics, ex-9745(Padula)  
 9540 USSR Petropavlovsk-Kamchatsky RR HS, "Majak", \*1700-2030\* (Davis)  
 9540 USSR Chita? RM CC service \*2320- past 0030 t/o (Davis)  
 9560 USSR RM 'African service' 2050-2057\*, EE nx, QRM NHK IS (Mayer)  
 9574 CHILE R Portales 0100-0200 SS tx, mx (some operas), commentary etc.,  
 frequency is varying apparently (Behr, Hauser, Schnabel, Duba, Guarducci) 0900 (Sykes)  
 9575 NEW GUINEA VL8BM, R. Central, Port Moresby, local EE nx 0110, G here via  
 F2 propagation where rather low ALF's, weekdays only (Padula)  
 9580 RFSR (As) RM EE to WNA \*0330-0730\*(Davis) Credit item below to Ernie Behr  
 9581v CLANDESTINE Jamming station \*1630-1706\* \*1730-1821\*, only instrumental mx, /  
 no anmt., freq varies 9580, 33-9582.7, sometimes mix regular jammer for Bizim R  
 9581v NICARAGUA 1405- past 1430, SS ID 1418, LA+US pops(Henderson, Dexter)cf 9596  
 9582v PHILIPPINES VOP EE 1248 thru 1300, annd to 1400 some days(Hauser, Dickson)  
 0715-0815 EE mx, frequent IDs, Xmas mx sung by anncr (Kolb, Conner)  
 9584 CLANDESTINE Bizim Radio \*1640 IS, Turk pgm to 1705v\*, also \*1740-1812v\*,  
 \*1910 in QRM (Behr) As you may note reports are cut short, this due to volume!  
 9585t SYRIA Damascus AA mx 1932, AA nx 1941, TS 2000, no ID, W (Young)  
 9596v NICARAGUA R. Mar varies widely from 9581, 1515 ads, heavy Japan QRM,  
 1529 TC for 9:27, 1547 ex improved to 34444 (Hauser) cf. Jan 1973 Log Report  
 9597 UNID lite mx 1902-2030, no anmts, breaks, distorted, harm?image?(Young)  
 9605 SARAWAK RM, Kuching Malaysian dialect, 0310-0332 native tunes, Eng C+W,  
 0330 TC: "...waktu Malaysia Timor", then ID: "Inilah RM Kuching"(Bundy)  
 9619 MOZAMBIQUE (cf Sept LR) 1455 PP mx, m+w ancrs, 1459 LM chimes, via IP (Hauser)  
 9619 UAE Abu Dhabi 1213 AA chants, 1230 nx, TC 1300 into drama, peaks 50 over(Young  
 1400 mostly AA music, musical notes on hr, f/01430but f/1450-1530+(Field)  
 9620 BRAZIL 9 de Julho 0800-0900 OM in PP, YL in JJ, JJ mx (Hoogerheide)  
 9622 PHILIPPINES VOA Tinang spur from 9630(Much stronger), Indonesian 1508(Hauser)  
 9630 SWEDEN R. Sweden 1230 EE nx, then Panorama (Zilmer) (Bundy)  
 9635 SINGAPORE 0028-0035+0155-0202 CC tx w/western+CC mx, 0200\*Singapore KTM/  
 9638 PHILIPPINES VOA Tinang spur matching 9622, 1512 Indonesian(Hauser)  
 9645 PAKISTAN Karachi 0030 EE nx then lite mx w/ male singer (Martin-Eu)  
 9645 USSR Magadan RR HS f/i 2145-0615\*, not Majak (Davis)  
 9653.7 CHILE R. Yungay 0100 SS ID&nx, 0106 mx, F (Behr)  
 9655 PERU R. Nor Peruana 0140 Peruvian mx, 0201 SS ID, last heard '68(Behr)  
 9655 SYRIA 2030-2200v s/off, EE to Europe, Mx from rock to Hawaiian, 2030 EE nx&  
 commentary, F-P(Cwikla, Fabian, Sykes, Miller, Straus, Nikolich, &EJD)  
 9670 PORTUGAL IBRA 2005-2015 EE rx Thurs(Cwikla) Voice of Hope SS rx program  
 EE ID 2100 (Yamron) IBRA, 2000 GGrx, EE rx mx(EJD)  
 9674.8 PERU R Del Pacifico 1130-1200 SS mx, ads, Warsaw on 1200 (Lohe) cf 9675, sorry  
 9675 POLAND Warsaw \*2000 EE nx, P (Straus)1630-1700 EE nx, to Africa(Tuchscherer)  
 9675 PERU R. Del Pacifico 1200 SS rx(Zilmer) 1332 ad string over Moscow(Hauser)  
 9683 2/3 PERU R. Continental 1035 "R. Continental-La mas potent& en todo el Sur",  
 Judian mx, ads for "Pilas Nacional"(Lohe) 2/3?? Judian mx?  
 9685 BRAZIL Unid 0905-0935 E Coast, Gazeta? tx( $\frac{1}{2}$  man,  $\frac{1}{2}$  woman), PP, PP mx, QRM  
 Mokba (Reeves) how do you know it's E. Coast? what is  $\frac{1}{2}$  man,  $\frac{1}{2}$  woman?  
 9695 BRAZIL R. Rio Mar 1105-1155PP, PP, "Braz Carneval", G (Lohe)  
 9709 MAURITIUS Forest Side Indian chanting 1241-1248, FF? tx 1252, 1259\* (Young)  
 1410 Indian mx on a Sat, extended sked (Conner)  
 9712 PERU R. Tropical \*1259, mentioned 3 freqs, 25,000 population (Hauser)  
 9715 UNID Viet-like lang here //7462v 1230a-1330a, v poor (Bundy)  
 9715 PHILIPPINES FEBC 1445 EE ID as DZH? Manila, lang tx(Zilmer)  
 9715 CONGO RTVC 1920 Afr jazz till 1930 then FF nx, E, slight QRM (Martin-Eu)  
 9720 SRI LANKA RSL 0130 "Back to the Bible", 0200 BBC nx(Yamron, EJD) EE to  
 Asia, 0135 choral mx, 12-30 day of superb mid-summer cx //11725 hd(Padula)  
 1600 BBC nx(Cwikla) pop requests 1430(Zilmer)1300 world nx (Lohe)

- 9720NF SWEDEN R Sweden 1230 EE nx, Panorama, ex-9715 (Zilmer)  
 9730 ETHIOPIA ETIF 0930 IS, ID, into Swahili to E. Africa (Nikolich)  
 9730 FRANCE ORTF\*0035 PP, 0100 SS, G, via 500 kw xmtr (Behr)  
 9743 IRAQ Baghdad 1845 AA songs, tx, gone by 1930 sked EE (Hauser)1930 EE ID, mx, some het (Imbert)EE 1930-2015 nx, tx, mx (Fabian, Sykes)\*2015GG (Straus)\*1930 EE nx (EJD, Eichenhorn, Fisher)1945 EE commentary (Kozionkowski)
- 9745 INDONESIA RRI Merauke 2220 national mx, II ancmts, often here daylight in summer months; strong level (Padula)  
 9745 USSR R P+P 1530-1557 EE nx, comment //9785(Mayer)  
 9750 CHILE R. Soc de Minería 1000-1035 SS, nat+international mx (Lohe)  
 9752 VENEZUELA R. Occidente "Tovar" mentioned in passing 2043(Hauser) 1035-1315 nx relay R Reloj Contiente, class.mx, IDs as "LW del Occidente, BBC QRM at 1315(Lohe)1230,1240 LA mx, SS tx, jingles, ads (J Fisher, Zilmer) 0825 SS mx, F (Straus) Hmmm, any IDs heard then?
- 9760NF SWEDEN R Sweden EE to A+NZ 0515, ex-9745, now clear of QRM. Strangely, DW-W also vacated 9745 for 9535 0400-0610!(Padula)test, 0030 EE //6165 (Zilmer)
- 9770 RSPSR (As) Vladivostok RR HS, not Majak, f/i 2330, still S 0705 t/o(Davis)  
 9780 RSPSR (As) RM EE to WNA \*0330-0730\* (Davis) Many thanks for these items, OM! I'm sure Dan F would like to receive RR HS info for LA.
- 9811 COLOMBIA R Atlantico (2x4905½) 1228 ID, fundamental unheard due to QRM (Hauser) This one heard here too, Glenn, as well as during the past summer
- 9820 PR CHINA HS presumed, Mongolian-like lang here is Kazakh as previously logged here, however no longer //15030; t/i 0155 (Bundy)
- 9838 N VIETNAM VOV mostly VV 2100-1100 //10121, after 1100 is //7510 and in Khmer or similar lang most of the time, IDs always mention Hanoi, P-G (Bundy)
- 9860 PR CHINA PR EE to Afr 1500-1655, 1700-1755 (Davis)  
 9915 ENGLAND BBC very short xmsn in unid As lang \*1800-1814\*(Davis)  
 9940 N VIETNAM VOV 1845 m+w tx in FF(Dickson) 2150 weak, bad fading(Smallshaw)  
 9988 CLANDESTINE VNUFK \*0000, // a weaker 10080; a two antenna DF technique leads me to believe that the two freqs come from a common QTH (Kamp) Khmer tx 1130 and later, dual 12005, G, had reported as Kunning, Yunan before(Heutte)
- 10010v CLANDESTINE Lib Radio\*2200 EE to SEA 2230\* 13 Dec, F (Wiseberg)no sign of Lib Radio today here or elsewhere 25 Dec (Bundy)
- 10015NFN VIETNAM VOV, VV or similar lang here, new HS freq, as early as 1030, as late as 1710 (extended sked) //10095 25, 30 Dec; //7545 25 Dec(Bundy)
- 10042v N VIETNAM VOV EE 1300 EE ID by YL, mx, Joan Baez mx (Palmer)1125 CC(Straus) 1350-1400 SS, ID, tx by W, VV mx, 2 min pause 1400 into another lang (Lineback) SS,I rather doubt that VOV has a Spanish service, hi!!
- 10073 N VIETNAM VOV t/i 1037 FS here, // 7040,10040v 25 Dec(Bundy)
- 10090 PORT GUINEA (2x5045) Bissau, EO, 0000 gong, slurred PP, 0021 obviously // 5045 checking Bundy query, also \*0759 w/a gong on 1/5, on 1/8 here past 0040 (Hauser) 2130 f/i sounds like Lisbon PP, could be husky harmonic of Bissau(Reynolds)0030 lang, Am pop mx, harmonic //5045 heard(Imbert) t/i 0755 LA vocals, 0800 a single gong seemingly an ID but couldn't match ID w/any in WRTH, seems PP tx; some ut QRM but suprisingly good, definitely not Altiplano; a carrier on 5045½ f/o 0900a, W; 10091 fades out after 0900 which points to a Brazilian QTH (Bundy)
- 10225 CLANDESTINE Lib Radio // 7416 + barely audible 1130t/i (Bundy)  
 10235v CLANDESTINE Lib Radio t/i 1040 presume VV svce, nothing on 7416(Bundy)  
 10450a UNID 2145 US pops, long FF tx by man, very strong, maybe local, tx problems Quebec? (Duba) Another case for NASWAs intrepid cland. expert,LMagne
- 11290 PR CHINA Urumchi, Sinkiang CC HS \*2000-0200 f/o, t/i1430-1730\*(Davis)  
 11330 PR CHINA Peking HS, CC \*2335-f/o 0400 (Davis)
- 11371NF N KOREA Pyongyang HS (presumed) HS 1 t/i 0035, up from 11350v surely (Bundy) Mr Davis reports 11350 is \*2000-0420\* \*\*\*\*\*  
 11505 PR CHINA CC HS \*0100-f/o 0730 (Davis) \*My QTH: 1307 Reynolds St. \*  
 11630 USSR As? 0620-0630 RM HS (Bundy) \*Key West Florida 23040 \*\*\*\*\*  
 11655 UNID(CLAND?) t/i 0440 VV like\*stn, same format 7482\*9715 an incomplete sked is 0100-0200, 0400-0500, 0800-0900; (Bundy)that's 7462
- 11695NFPR CHINA II 0900-0955 //17795, 17680, 15095, 8450(RCDSB), 8240,5545(Bundy)  
 \*\*\*\*\*The number of reports that I received was at least double that for the Jan LR, therefore many items were cut, but all important ones are here, 73s-David\*\*\*\*\*

- 11700 VATICAN VR \*1605 FF, 1715 EE, off freq. list 11705 (Hauser, Archard)  
 11700 UNID Two Stations 1320-1330 Lang, non-western choral mx under single tone IS, ID unreadable; second sta. \*1330 in Lang, ID not understood, mx, P (Lineback)
- 11710 NEW CALEDONIA ORTF Noumea 0500 FF, mx, tlk, //9510 & 7170 not hrd, F (Bundy-Pac); 1045-1100 FF, mx, P (Straus)
- 11710 AUSTRALIA ABC \*1215 EE to NA & Canada, P (Guarducci)  
 11715 SWITZ SBC 0145-0200 EE to N&CA, nx, tlk, G (Archard)  
 11715 ALGERIA RTVA 1245 AA, chants, //11810, 11965, P (Zilmer)  
 11720 MALAGASY REP RN Talata 0030 EE to SEA, heavy QRM (Behr)  
 11720 BRAZIL R Nac d Bras. 0250, 0915-1000 PP, nx, tlk, ads, TC, F-G (Zilmer, Urbelis)
- 11720 CANADA CBC No. Svc. 2215-2240 EE/Esk, tlk, anmts, G (Fino)  
 11720NF SRI Asian HS \*0100-0600 f/o, move from 11905 (Davis)  
 11720 SRI LANKA R Ceylon rept. here 1540-1730 EE, "World Tomorrow", pop mx, kids px, xmas px, F (Urbelis)
- 11725v SRI LANKA R Ceylon \*0030 EE to Asia, TC, ID, rare here this time of year (Padula-Pac); 0125-0145 EE, ID rel px, mx, TC, P-F (Yamron, Sykes, Zilmer) Rept. 11724-25.
- 11725 VATICAN VR 0050 EE, rel px, over Sri Lanka, G (Zilmer)  
 11730 NETH ANT RN 0206-0240 EE to NA, nx, DX Jbox, tlk, E (Fino, Van Horn, L. Marshall, Stephens)
- 11730 USSR R Peace & Prog. 1540 EE, ID, tlk, P (Sellers)  
 11735 BRAZIL RC de Goiania 0940 PP, mx, ads, ID, F (Straus)  
 11735 UNID 1715-1735 AA?, chants, P (Lineback)  
 11740 VATICAN VR 1500 EE, rel nx, F (Zilmer)  
 11740 INDIA AIR 2212, Indian mx mixing w/ CBC, F (Ronda)  
 11740 UNID VoA tx for OAS 0025-0030\*, FF, EE ID, F (Sykes)  
 11745 ECUADOR HCJB 0000-0150 EE, nx, rel px, mx, DXPL, G-E (Carlsen, Van Horn, Wells)
- 11745 IRAQ R Baghdad \*1930-2013\* EE, nx, mx, F (Wiseberg)  
 11750 ENGLAND BBC 0045-0115 SS, nx, mx, G (Fino)  
 11750 MALAYSIA BBC 1230 EE, mx, ID, P (Eichenhorn)  
 11760 PHILIPPINES VoA (cf Jan FRENDX) is Tinang at 0100 not USA (Hauser)  
 11760 CUBA RHC 0355 EE, tlk, //11930, E (Stephens)  
 11765 AUSTRALIA ABC 0745-0900 EE, IS, nx, //9570, 5995, F-G (Helms, Sellers, Koziomkowski); 1330-1500\* Thai, into EE at 1430, G (Bundy-Pac)
- 11770 N ZEALAND RNZ 0615-0630 EE, 1t mx, F (Mayer)  
 11770 MEXICO R Mex 2340-0135 SS, ID, nx, mx, F-G (Lohe, Guarducci, Van Horn, Sellers); 1503-1535 SS, ID, mx, F-G (Duba, f/i 1503 Bundy-Pac)
- 11775 SPAIN RNE \*1245 SS, F (Lohe); 2200 SS, G (Wells); both for LA  
 11775 INDIA AIR Aligrah \*1000 EE, nx, cmtry, G (Straus)  
 11775 SWITZ SBC 0700-0730 EE, "Dateline" to F East, G (Urbelis)  
 11780 N ZEALAND RNZ 0608-0700 EE, IS, to Pac, mx, nx, //9540, P-G (Wiseberg, Imbert, Yamron, Zilmer)
- 11780 ENGLAND BBC 1558 IS, EE s/o into Slovak, F (Sellers)  
 11780 MOZAMBIQUE RCM 0454-0558 EE/Afr, pop mx, ads, nx, QRM de VoA \*0558, P-G (McCall, Imbert, Sykes); 1825-1830\* EE/Afr., ads, amt of other RCM freq. no ID, rare this time, P (Sykes)
- 11780 LIBERIA VoA \*0558-0600\* EE, IS, ID then off, what is this 2 min xmission for? G (Imbert). Maybe out of money-hi. -ed.
- 11785 BRAZIL R Guaiaba 2315-0110 PP, nx, tlk, sports, ID, ads, EE dance mx, QRM de TWR, P-G (Lohe, Wiseberg, Ronda, Zilmer); 0759-0930 PP, nx, mx, ads, tlk, G (Urbelis)
- 11790 INDIA AIR 0100 Burmese svc, nat mx, seldom hrd, (Padula-Pac)  
 11795 ZAIRE LV de la Rev 2345-0030, 0215 FF, Af mx, speech, G (Lohe, Padula)  
 11795 W GERMANY DW 1645 FF, ID, mx, nx, F (Wiseberg)  
 11795 cf Dec/Nov/May LR. Station here often reported here as LIBYA. I have never heard Libya here, only DW in AA or ETLF and doubt that Libya has ever used this freq. Members should use caution in reporting this one without positive ID (Behr). Thanks-ed.
- 11800 JAPAN NHK 2345-0005 EE, nx, cmtry, mx, G (Imbert, Carlsen)

- 11800 CANARY IS RNE \*1955-0400 SS, IS, ID, spts, nx, tlk, mx, G (Urbelis, Imbert); 2000-2015 SS, 1t SS/EE mx, //15365 (Mayer); 2300, Centro Emisor del Atlantico, Santa Cruze de Tenerife, chimes, 12/31 new year arrival coverage w/fireworks from Barcelona (Hauser)
- 11800 SRI LANKA R Ceylon 1130 EE, rel px, (Draut); 1200-1400 Sinhalese/EE, mx, cmtry, P-G (Schnabel, Eichenhorn); 1430-1600 EE, local mx, ID, ads, F (Eichenhorn, Carlsen); 1600-1730\* Lang, EE ID, local mx, TC, chimes, nx, G (Carlson, Imbert, Urbelis)
- 11805 BRAZIL R Globo 0000-0204 PP, mx, ads, ID, P-F (Zilmer, Plum, Stephens); 0900-1030 PP, same, F-G (Urbelis, Straus, Sellers)
- 11810 INDIA AIR \*1330-1500 EE, GOS nx, cmtry, ID, mx, P-G (Stephens, J. Perry, Wiseberg, Lineback)
- 11810 ECUADOR HCJB 1945-2000 EE, rel px, mx, ID, to Eu., P (Lineback)
- 11810 VATICAN VR \*1505 EE ID into Lang to India and SEA, F-G (Lineback, Stephens); 1515-1530\* EE, rel nx, G (Whaley)
- 11810 ETHIOPIA ETLF 0535-0545 EE to W Africa, ex 11850 (McCall, Padula-Pac)
- 11810 AUSTRALIA ABC 1105-1130 EE, nx, mailbag, //11790, P-F (Straus, Sellers)
- 11810 ALGERIA RTVA 1245 AA, chants, P (Zilmer)
- 11815 POLAND R Warsaw 0200 EE to NA, (Draut)
- 11815 NETH ANT TWR \*1105-1132 EE, choir mx, rel px, tlk, P-G (Wiseberg, Sellers); 0045-0103 EE, rel px, IS, ID, nx, G-E (Wells, Stephens, Eichenhorn, Wiseberg)
- 11820 MOZAMBIQUE RCM 0510 EE, pop mx, hrd nightly (Yamron)
- 11820 MEXICO XEBR 2010 SS, ID, ads, EE pops, F (Dickson); also rept. as XEUDS 1500 SS, mx, tlk, P (Nikolich)
- 11822v IRAQ R Baghdad 1430-1500 AA, chants, nx, F (Behr)
- 11822 UNID 1650 AA, ID, at 1659 w/7-8 chimes, ID, theme mx, nx, "Idha'at el gumhuriya kla'a eskriya?" (Hauser)
- 11825 TAHITI R Tahiti 0300 Tahitian, 0515, 0640-0805 FF, IDs, talk, mx, //15170, G (Nikolich, Imbert, Urbelis)
- 11835 HAITI 4VEH 1115-1415\* EE, rel px, ID, s/o w/ "Amazing Grace", G-E (Lineback, McCall, Reynolds, Sellers); 2102 EE/SS ID, rel mx, P (Van Horn)
- 11835 URUGUAY R El Espectador 0220-0300\* SS, ID, nx, ads, F (Sellers, Conner); 0900-1015 SS, ads, mx, ID, P-G (Straus, Urbelis)
- 11835 ALGERIA RTVA 2235 FF, nx, mx, E (Wootten-Morocco); 0735 FF, //15420, G (Bundy-Pac)
- 11835 USSR Mayak 0230 RR, IS, ID, under Uruguay, P (Conner)
- 11840 AUSTRALIA ABC 1840-2045 EE, pop mx, ID, TC, P-G (Mayer, Ronda, Van Horn, Guarducci)
- 11845 CANADA RCI 2045-2115 EE/FF, nx, mx, to Eu., G (Fino, Van Horn)
- 11850 ETHIOPIA ETLF 0526-0610 EE, nx, health px, tlk, QRN, F (Urbelis)
- 11850 GHANA RG 2045-2115 EE, cmtry, ID, F (Eichenhorn)
- 11855 SAUDI ARABIA Djeddah 1725 EE, nx, mx, G (Wootten-Morocco); 1945-2000\* EE, mx, QRM, P (Cwikla)
- 11855 AUSTRIA Vienna 1450-1503 GG, 1t class mx, IS, tlk by M, (Tuchscherer)
- 11855 USA WNYW 0056 EE, mx, F (Wells)
- 11860 CANADA RCI 1730, 1830 EE, 1914 EE into FF for Africa, nx, mx, cmtry, ID, G-E (Wooten-Morocco, Eichenhorn, J. Perry); 1915 12/31 EE/FF funeral of L. Pearson //9610, G (Wiseberg)
- 11862v ZAIRE R Lubumbashi 1940-2002\* FF, ID "Ici Lubumbashi" at 1945 and 2000, African pop mx, anthem, freq. amts by YW, QRM, G (R. Perry); 1840 African mx, P (Ronda); 1915 EE, local mx, ID P (Eichenhorn). v862-5.
- 11865 RWANDA DW Kigali 2258 GG, IS, s/o, Rwanda ID then DW ID, nx, E (Sellers)
- 11865 BRAZIL RC de Pernambuco 0115 PP, sports, F (Zilmer); 0400-0435\* PP, ID, TC, F (Reves)
- 11865 ENGLAND BBC 2115\* Caribbean nx, E (Wootten-Morocco)
- 11870 SWITZ SBC 1530-1540 EE, nx & cmtry to ME, VoA splash/11875, P-F (Zilmer)
- 11874.3 UNID 1520-1532 SS, on USB, sports event, hrd after quake, Nicaragua emergency sta? P (Lineback)
- 11875 NICARAGUA R Nac 0100, 1330, 1500, 1700, 1935, 2020-2100 SS, LA mx, IDs, tlk, ads, all hrd before quake, P-G (Urbelis, Carlsen, Eichenhorn, Sellers, Wiseberg, Smallshaw) Hope someone notes when they return-ed.

- 11875 PORTUGAL RP 1802-1816\*, 1900 EE, ID, nx, 1t mx, (Tuchscherer, Reynolds) Rept. here before (Nov LR) but hrd in absence of Nicaragua.
- 11875 JAPAN NHK 0928-0950 EE, ID, IS, Tlk, mx, nx, VP (Urbelis)
- 11875 ETHIOPIA ETLF \*1930-2000 EE, nx, rel px, G (Cwikla)
- 11875 ITALY RAI 1455 Lang(FF?), RAI IS, ID not understood, (Reynolds)
- 11875 ANGOLA R Angola 0500, IS, unreadable, P (Imbert)
- 11875NF BELGIUM RTB 2305-0050 EE, Belgium speaking, here in absence of Nicaragua, P (Zilmer) A vacuum is soon filled-ed.
- 11880 TURKEY VoT 0620 TT, TT mx, chants, G (Wiseberg); \*1400, usual s/omx, anthem? (Reynolds); \*2200-2230\* EE, nx, press review, TT class mx, G-E (Cwikla, Whaley, Wiseberg, Straus, Urbelis)
- 11880 ETHIOPIA ETLF 1957 EE, px on Malagasy economy, F (Wells)
- 11885 USA WNYW 2025, rel px, ID, G (Van Horn)
- 11885NF? ETHIOPIA ETLF 1930 EE, rel px, on same freq. as WNYW, NF or drift? F (Wootten-Morocco)
- 11890 ZAMBIA RZ 0504 EE, nx, lively mx, IDs, short story, F-G (Imbert)
- 11890 PHILIPPINES FEBC 0900-0945 EE, nx, rel px, G (Urbelis)
- 11895 UNID African 0500-0530 EE, nx, G (Urbelis) More Zambia drift? cf Jan LR
- 11895 SENEGAL RS Dakar 2045-2230 FF, Chubby Checker mx, tlks, amnts, G(Urbelis); African mx, FF drama, ID, hrd lately after long inaudibility, F (Sykes)
- 11895 NETH ANT TWR 0955-1030 GG, IS, ID, rel px, mx, tlk, F (Urbelis)
- 11900 S AFRICA RSA 0413, IS, ID, G (Stephens); 1905 EE, nx, F (Guarducci)
- 11900 TUNISIA RTVT 0813, 1515-1533, chants, ME mx, ID 1532, USSR here some days, (Sellers, Tuchscherer)
- 11905 USA VoA Greenville 1930-2030 Romanian into SC, IS, tlk, nx, mx, G (Fino)
- 11905 USA UNR Greenville 0125 EE, General Assembly Mtng., G-E (Sellers)
- 11915 ECUADOR HCJB 0408 SS, rel mx, E (Stephens)
- 11920 IVORY COAST RTVI 1840-1958\* EE, nx, pop and local mx, ID, P-G (Reynolds, Cwikla, Eichenhorn); 2045, 2115-2230, 0900 FF, local and pop mx, amnts, some QRM, F-G (Wiseberg, Archard, Urbelis)
- 11920 ALGERIA RTVA 2005 AA, chants, P (L. Marshall)
- 11925 USSR R Taskent 1200 EE, G (McCall)
- 11925 BRAZIL R Bandeirantes 0230-0245, 0855-1000, 2345 PP, tlk, ads, mx, ID, QRM at 2345 (Lohe, Urbelis, Dickson, Zilmer, Eichenhorn)
- 11930v WINDWARD IS R Grenada \*1945-2130\* EE, UK mx, req px, lbx, reported as low as 11925, P-F (Wiseberg, Zilmer, Wells, King)
- 11930 SWEDEN RS 1600 EE, IS, ID, nx, tlk on US-Swed relations, G (Whaley)
- 11930 CUBA RHC 0355 EE, tlk by M&W, E (Stephens); 0940 PP, mx, ID, (Eichenhorn)
- 11935 BRAZIL RC Paranaense 0855 PP, IDs, slogans, amnts, G (Sellers)
- 11935 PORTUGAL RP 0200-0245 EE to NA, nx, cmtry, DX px, mx, into PP at 0245, G (Fabian, Wiseberg); 0400 EE, nx, tlk, mx, F (Stephens)
- 11940 LIBERIA ELWA 1730 FF, xmas mx, P (Eichenhorn); 2015-2100\* EE, nx, rel px, F-G (Wiseberg, Plum, Zilmer, Wells)
- 11940 RUMANIA RB 1510-1520 EE, ID, nx, cmtry, P-F (Lineback)
- 11945 ENGLAND BBC Eu Svc IS, \*1358 Hung., \*1430 SC, nx, EE ID, (Hauser, Wiseberg)
- 11945 INDIA AIR 1328 EE, IS, ID, nx, G (Conner)
- 11945 AUSTRALIA ABC 1358 CC, mixed w/ BBC Eu Svc (Hauser)
- 11950 LIBERIA ELWA \*0610-0728 EE/vern, IS, ID, rel px, P-F (J. Kolb, Eichenhorn, Urbelis)
- 11950 BRAZIL R Min de Educacão 2300-2400, 0115 PP, ID, educ px, class mx, P-G (Lohe, Zilmer)
- 11955 SEYCHELLES IS FEBA \*1700-1800 EE, IS, ID, rel px, class mx, into AA to ME at 1800, P-G (Urbelis, Young, Wiseberg, Conner, Palmer, Van Horn, Kamp, Lineback, Yamron, Eichenhorn, Mayer, McClure); 1345 EE, G (Zilmer) Seychelles Seychelles by the Seyshore-hi. 13 (count-em) repts. This should warm the cockles of FEBA's heart-ed.
- 11960 CHINA RP 0139 EE tlk, CC mx, G (Stephens)
- 11965 CHINA RP 0104-0119 EE, pol cmtry, (Tuchscherer) Freq. var?
- 11965 ALGERIA RTVA 1245 AA, chants, F(Zilmer); 1530 EE, cmtry, mx, (Eichenhorn)
- 11965 W GERMANY DW 2120-2240\* GG, IS, ID, mx, tlk, to Africa, G (Fino, Van Horn)
- 11965 BRAZIL R Record 2245-0030 PP, tlk, mx, F (Lohe)

- 11970 CUBA RHC 0400 SS, tlk, P (Stephens)  
11970 S AFRICA RSA 1900-1915, 2215-2240, 0030-0345 EE, ID, mx, cmtry, various px, generally G (Archard, Carlsen, Fino, J. Perry, Eichenhorn, Lineback, Wells, Stephens, Van Horn, Wootten-Morocco) The folks at RSA should be happy too-ed.
- 11975 E GERMANY RBI 1615, ID, M&W ann, F (McCall)  
11980 CHINA RP 0125-0130 SS, 1t mx, ID, (Tuchscherer)  
11980 USSR RM Chita \*2130-0500\* CC svc, (Davis)  
11980 USSR RM Asian EE to WCNA, used often when 11850 is announced from \*0300 to 0730\*, (Davis)
- 11990 USSR Vladivostok, RR HS, Majak px, \*2230-0800, (Davis)  
11990 CZECH RP \*1730 EE to Africa and Asia, F (Van Horn)  
12000 AUSTRALIA VNG 0515 EE, time pips, ID, P (Imbert)  
12005 CLAND VoFUNK 1135 Khmre tlks, many mentions of Kampuchea, //9989, RTTY QRM, P (Heutte)
- 12008 N VIETNAM VoV 1630 FF, mx, P (Eichenhorn)  
12010 UNID 1335-1340 Lang, tlk, class mx, not//12019, F (Lineback)  
12015 UNID 1340-1345 SEA Lang, tlk by W, splash from 12019, P (Lineback)  
12019 UNID 1320-1405 RR or Lang, tlk, IS, class mx, G (Lineback) The above 3 hrd 1/2, possible N Vietnam-ed.
- 12020 N VIETNAM VoV 1317 EE, tlk on US bombing, F (Draut)  
12020NF ISRAEL IBA 1925-1930 Yid, tlk abt Israel, Soviet cities, 6 pip IS at 1929 w/RR ID and px, G (Hauser)
- 12030 USSR Asian loc f/i 0325-0550 f/o, local lang, hrd occ //7200, local px sep from Moscow HS, not Majak at any time hrd, (Davis)  
12040 USSR Vladivostok \*0045-0800\* RR HS px (not Majak) (Davis)  
12080 CLAND (Venez) R Euzkadi \*2130-2155\* SS, mx, tlk, mx, F-G (Wiseberg, Duba)  
12095 ENGLAND BBC 1245, 1400, 1630 EE, cmtry, class mx, F-G (Wootten-Morocco, Reynolds, Sweeney)
- 12140 RUMANIA R Espana Ind 1630 SS, tlk abt Spain, F (Hauser); clear ID over jammers at 2035 (Plum)  
12151 HONDURAS LV del Junco 1613 SS, ID, distorted, 2 x 6075.5, also hrd in past on second harm, (Hauser)
- 12190 AUSTRALIA ABC 0905-0925 Indon, LSB feeder from Lyndhurst to Darwin tx, G (Bundy-Pac)  
12240 USSR Magadan \*2130v (also \*1900//9500, \*1800 occ)-0805 f/o RR HS, not Majak, (Davis)
- 13248 CLAND (Venez) R Euzkadi 1952-1954\* SS, end px w/sched, freq ann as 13250 & 15080, also mentioned 25 m band, Paris add, anthem, (Hauser)  
13250 SPAIN Jammer for R Euzkadi 1953 w/strange ricochet snd, separable from 13248, stayed on when R Euzkadi off, (Hauser)
- 14070 CHINA RP 0005 PP to Braz, 2 x 7035, fund is NF sound when harm noted here, P (Bundy-Pac)  
14216 UNID 0018 Asian mx, possibly Thai TV Co 2 x 7108, fund not hrd but sched fits, VP (Bundy-Pac)
- 14400 USA VoA Dixon? 0018 CC on SSB, E (Hauser)  
14416 CHINA China Press Agency \*0000 EIR, then W in CC, flutter, weak, (Dexter)  
14970 UNID 2205-2215 FF, tlk, P (Lineback)  
15000 ARGENTINA LOL 2315-2330, voice ID just before every 5th min, "Obs. Naval Arg." very quickly spoken by W; LOL repeated 3 times in Morse at 2319, 2324, 2329 etc, (under WWV, WWVH) (Carlson)
- 15003 UNID LOC VoA 2200-2205 EE, nx, cmtry, there to jam N Viet? G (Lineback)  
15005 UNID LOC VoA 2200-2205 EE, nx, //15010, jamming? P (Lineback)  
15010 UNID LOC (SEA?) AFRTS 2215-2230 EE, px to servicemen in Vietnam, nx, not hrd same day as VoA, hrd during bombing, jamming?, also hrd 1410-1416 w/ network nx in EE, P (Lineback)
- 15030 CHINA RP HS \*2300-0255 CC, dict, //11735 et al on RF used in Uighur/ Kazakh HS for a few months, F (Bundy-Pac, Davis)
- 15040 CHINA RP \*0100-0255\* SS to LA, (Davis)  
15045 CHINA RP 0235 SS, hist of China px, //15095, fluttery, P (Wells)  
15055 UNID (Cairo?) 1532 Lang, bad echo, unreadable, P (Wells)  
15060 CHINA RP \*2330-0455\* CC, EE px hrd 0045-0139, tlk, cmtry, "China under construction, F(Wells, Stephens, Davis)

- 15070 ENGLAND BBC 1430, 1800 EE, WS, nx, cmtry, ID, TC, P-G (J. Perry, Wiseberg)
- 15080 INDIA AIR Bombay EE, Indian mx, (J. Fisher)
- 15080 AUSTRALIA ABC 1250 EE, nx, E (Stephens)
- 15095 CHINA RP 2300-0255 SS to LA, 0300-0455\* EE to NA, (Davis, Wells)
- 15105 BRAZIL R Rural 1035 PP, tlk, mx, F (Bundy-Pac); 2117-2135, 2230 PP, tlk, ID, mx, QRM de Japan after 2300, P-G (Lineback, Lohe, Herson)
- 15105 JAPAN NHK \*2300-2320 (also rept \*2200) EE, ID over Brazil, nx, sched, P-G (Guarducci, Lineback, Palmer, Wells); 0015 EE into JJ, tlk, F (Stephens) NHK sometimes over or under Brazil dep on conditions—ed
- 15105 ASCENSION IS BBC \*1644-1700 EE, IS, ID for relay play, nx, P (Wiseberg)
- 15110 PHILIPPINES AFRTS relay 1621, not Tinang, 35 kw tx, G (Hauser)
- 15115 FRANCE ORTF 2215 FF, tlk, mx, //15250, G (Wootten-Morocco)
- 15115 SAUDI ARABIA Djeddah \*1300 Indon, ID into chants, (Padula-Pac)
- 15115 ECUADOR HCJB 1700-0715 FF, px sandwiched between EE px, unlisted svc (WRTH72), G (Bundy-Pac); EE rel px, F (Stephens) Time?—ed
- 15120v NIGERIA VoN 1630-1658 EE, pops, ID, nx, into AA at 1658, P-F (Bundy-Pac, Lineback); 1930 EE/FF, African rythms, (Reynolds) Rept 15119-20
- 15120 FRANCE ORTF 1950-2117 FF, ID, mx, tlk, F (Fino, Lineback)
- 15125v MEXICO R Mex 0123, 1502, 2340 SS, ID, mx, F-G (Koziomkowski, Lineback, Stephens) Rept as low as 15124.3
- 15125 TAIWAN VoF 0204-0230 EE, nx, tlk by W, cmtry, P-F (Wells, Nikolich)
- 15130NF? ETHIOPIA ETLF 1220-1230, IS and multilingual ID, into Mandarin, G (Bundy-Pac, Padula-Pac)
- 15130 INDIA AIR Bombay(t) 1045-1100\* Hindi, Indian mx, tent local ID, F (Bundy)
- 15130 USA WNYW 0005 EE, nx, mx, E (Stephens)
- 15133 UNID 2130-2132\* AA, mod off, carrier cont, Cairo?, (Bundy-Pac)
- 15135NF LIBERIA UNR on VoA tx \*0745-0800, VoA IS, EE ID giving Monrovia QTH, UN nx in EE/Swahili/Somali, NF ex 15130, also VoA xmas px 0830, (Bundy)
- 15140 CUBA RHC 2120-2140 EE, tlks, cmtry, VoV px, F-G (Rydell, Straus, Wells, Bundy-Pac)
- 15140 USSR RM EE to ECNA 0100-0230, to west NA 0330-0500, Petropaulovsk (Davis) EE tlk 0115, P (Stephens); 1025-1130 CC to 1030 then EE R Peace and Progress, all under Australia, (Bundy-Pac)
- 15145 BRAZIL R Journal do Comercia 2230 PP, relay "a voz do Brazil" px, G (Conner)
- 15150 N KOREA R Pyongyang 2300-0000 KK, ID, 0000-0100 SS, nx, cmtry, F-G (Palmer, L. Marshall)
- 15155 FRANCE ORTF 1037-1102 EE, nx, memorial px for Mahalia Jackson, QRM de VoA Tinang wiped out ORTF at 1059, (Bundy-Pac); 1519 EE, ID, (Stephens)
- 15155 BRAZIL R Tupi 2353-0030 PP, mx, ads, futebol, F (Ronda, Wells, Stephens)
- 15155 S AFRICA RSA 1920 FF, mx, tlk, G (Wiseberg)
- 15160 USA La Voz de la OEA via Greenville 0030 SS, ID OAS & VoA, (Calkins)
- 15160 AUSTRALIA ABC 2010, 0500 EE, mx, tlk, nx, P-G (Guarducci, Stephens)
- 15165 DENMARK RD 1330 EE ID into Dan for Greenland, G (McClure); 0758-0900 Lang, church svc on xmas, believed to be RD on asched sched, G (Bundy-Pac)
- 15170 TAHITI RT \*0300, 1745, 1815-1835 FF/Tahitian, Poly/EE/FF mx, tlk, EE nx, wx at 1745-1755, F-G (Lineback, Whaley, Wells) Some DXers reported Cook Is. here, but surely is Tahiti as sched fits (Bundy-Pac)
- 15170 PORTUGAL RFE 0956-1001, clear during RP&P pause, then obliterated, first RFE logging for me (Bundy-Pac)
- 15170 UNID Omdurman? 2150 AA? chants, P-F (Wells)
- 15174 EGYPT R Cairo \*0700-1400 AA HS, chants, //17670 noted 0800, (Bundy-Pac)
- 15175 NORWAY RN 1522 test in MN, EE ID, G(Stephens); 1600-1630 EE, nx, tlks, mx, SS nx summary at 1630, F (Wiseberg)
- 15175 S AFRICA RSA 1903 EE, nx, //11970, G (Guarducci, Lineback); 2135-2150 PP, nx, tlk to Portugal, G (Fino)
- 15175 MEXICO R Mex 2152-2200 SS, nx, dialogue w/M&W, F (Bundy-Pac)
- 15175 PHILIPPINES VoA Tinang 2230 Indon, EE ID, nx, F (Wells)
- 15180 USSR RM Petropaulovsk 2300-0030 EE to ENA, (Davis)
- 15182.5 NIGERIA VoN \*0600 EE, perhaps 0800\*, F (Bundy-Pac)
- 15185 FINLAND FBC 1400-1430 EE, tlk, mx, panel show, F-G (Eichenhorn, McClure, Koziomkowski, Stephens); 1800-1830 EE, nx, P (Yamron)

- 15185 USA WINB \*2000-2247\* EE, ID, mx, rel px, G-E (Wells, McCall, Rydell)  
 15185 INDIA AIR Delhi? 0510-0700\*, cricket coverage in EE w/occ Hindi  
 cmtry, F (Bundy-Pac)
- 15190 CONGO Brazzaville, LV de la Rev Congolaise 1710-1728, 1930, 2126 FF,  
 ID, African mx, drumsID, nx, (Wootten-Morocco, Lohe, Hauser, Straus);  
 1800-1835 VoFighting Angola, IS w/two strokes on a tympani, then snd  
 of European siren on an accelerating car, then African mx, G (Palmer);  
 rev mx, nx in PP, F (Ronda)
- 15190 ETHIOPIA ETLF 1329-1400 EE, nx, features, IS, ID, P-G (Bundy, Zilmer,  
 Sykes, Conner)
- 15190 CUBA RHC 2210 SS, mx, ID, G (Wells)
- 15195 JAPAN NHK \*2300-2308, 2208 EE, nx, ID, DX corner, //15105,9735, JJ at  
 2215, (Wells, Lineback, Nikolich)
- 15197.5 UNID (China RP?) 0140 CC, mx, tlks, P (Wells)
- 15205 INDIA AIR Delhi 1008-1020 EE, nx in GOS, ID, sched, //hrd 17775, 17380,  
 15190, 11775, F (Bundy-Pac)
- 15215 USA WNYW 0015 EE, mx, EE/SS ID, E (Wells)
- 15220 S AFRICA RSA 2330-2335, 0010 EE, IS, ID, mx, rel px, QRM de WNYW,  
 G-E (Wells, Lineback)
- 15235 PHILIPPINES FEBC 2339 EE, nx, G (Stephens)
- 15235 JAPAN NHK 0130 EE, to NA and Can, P-F (Wells); 0912 JJ to LA,  
 //11780 G, 9530 F, G (Bundy-Pac)
- 15240 PAKISTAN R Pak 1330 EE, nx at slow speed, P (Zilmer)
- 15245 ZAIRE Kinshasa 1625 Lang, //4880, strong, (Bundy-Pac); 2120 FF, F(Ronda)
- 15245 W GERMANY DW 1420\* GG, ID, E (Stephens)
- 15250 RUMANIA RB 1300 EE, nx, press rev, //11940, F-G (McClure, Zilmer)
- 15260 ASCENSION IS BBC 2236, 0240, 0121 EE, tlk cmtry, F (Eichenhorn, Wells,  
 Stephens)
- 15270 LIBERIA VoA \*1830, EE ID into FF nx to Africa, G (Van Horn)
- 15270 USA VoA 1830-1858 Hungarian, IS, mx, nx, amnts in EE, G (Fino)
- 15270 SEYCHELLES FEBA 0635-0655 EE, rel px, ID, beamed to India, Pakistan,  
 and Bangladesh, unlisted WRTH72, F (Bundy-Pac)
- 15280 USA KEGI 2240 EE, 2300 RR, 2315 SS, nx, mx, rel px, F-E (Wells, Wiseberg)
- 15285 CUBA RHC 1853 SS, 2100-2135 EE, tlk, S&SUS mx, G (Fino, Van Horn,  
 Wiseberg)
- 15285 CHINA RP 0500-0530 Indon, new svc, //15080, 15060, 17825, 17735, 17680,  
 11675, (Padula-Pac, Bundy-Pac)
- 15289 ARGENTINA R el Mundo(t) 0905-0935 SS, tlk, songs, QRM de R Liberty  
 jammers, possible \*0900, P (Bundy-Pac)
- 15290 PHILIPPINES VoA 0125 EE, nx, F (Stephens)
- 15290 SYRIA R Damascus 0530, 0630 AA HS, w/AA mx, F (Bundy-Pac)
- 15300 CUBA RHC 1520 SS, speech, P-F (Wells)
- 15300 ECUADOR HCJB \*1900-1920 EE to Eu., mx, rel px, E (Van Horn, Wiseberg)
- 15305 SWITZ SBC, ID, mx, (Koziomkowski) Time, lang?-ed
- 15310 GUINEA Rdif Nat 1450 FF, welcome ceremony at airport for Idi Amin of  
 Uganda, F (Conner)
- 15320 NETH ANT RN 2310 SS, "La Estacion de Alegria", E (Wells)
- 15320 AUSTRALIA ABC 0212 EE, tlk, nx, P (Stephens)
- 15320 CANADA RCI 1901 EE, "Today Mag," nx, sports, G (Dickson)
- 15325 CANADA RCI 1800-1835 EE/GC/Hung, nx, cmtry, G (Fino)
- 15335 FRANCE ORTF 1445 FF, mx, tlk, //15295, F (Zilmer)
- 15335 S KOREA VoFk 0320 EE, mailbag px, (Draut)
- 15340 CUBA RHC 0230 SS, tlk, ID, E (Stephens)
- 15350 NETHERLANDS RN \*2000 Scandinavian Lang px, G (Van Horn)
- 15350 MALAGASY REP RN Talata 2000 DD, G, ex 15105 (Behr)
- 15355 PORTUGAL RFE 1623 Lang, EE pops, ID "Stansa Svobodna Europa", F (Wells)
- 15360 MOROCCO RIM 1500-1800 AA, chants, nx, tlk, ID "Huna Rabat", (Lohe)
- 15360 LIBERIA VoA 1745 EE, nx, (Koziomkowski)
- 15365 CANARY IS RNE \*1955 w/ amnts in SS and SS mx, prob loc, F (Van Horn)
- 15370 TAIWAN R Liberty 1153-1200 RR, through jammers w/partial ID, F, also  
 0845 //17750, 17895, both listed for Spain, (Bundy-Pac)
- 15375 NETH ANT RN 1915-1930 EE, talk, nx, cmtry, G-E (Wiseberg, Eichenhorn)

- 15383v MEXICO XERMX 0020-0245 SS, R Correio del Aire ammts, also 1500, 1615-1641\* SS, IDs, freq, mx, G (Lohe, Eichenhorn)
- 15410 USA UNR Greenville 1626-1700 EE, Gen Assembly mtng, F-G (Wells, Eichenhorn)
- 15415 KUWAIT R Kuwait 1600-1800 EE, nx, pop mx, ID, G (Straus, Wiseberg)
- 15415 BRAZIL RC de Riberao Preto 2335-0000 PP, TC, ads, US pops, F-G (Lohe)
- 15425 GREECE NHBI 1333 SS to LA, IS & off at 1350 per sched for Avlis, (Dexter)
- 15425 AUSTRALIA ABC Perth 2345 EE, nx, mx, tlk, P (Wiseberg)
- 15430 INDIA AIR 1305-1315\* Lang, Sitar mx, EE AIR ID, F (Bundy-Pac)
- 15430 USA AFRTS Greenville 1717 EE, tlk on higher education, F (Wells)
- 15435 TANZANIA RT 1755-1902 EE, nx, ID, drums, pips, TC, mx, QRM de AFRTS, P (Imbert, Sykes, Wells, Reynolds)
- 15435 MALAYSIA BBC \*2255 EE, IS, ID, nx, some het, P (Imbert)
- 15440 USA WNYW 1900\* EE, lt mx, ID, G (Imbert)
- 15440 PHILIPPINES FEBC 0130 EE, nx, cmtry abt Libya, mx, F (Whaley)
- 15445 JAPAN NHK \*2345-0045 EE to NA, nx, tlks on Japan, JJ LL, QRM de VoA, P-G (Lineback, Eichenhorn, Wiseberg, Archard, McClure, Koziomkowski)
- 15445 BRAZIL R Nac Brasilia 2130, 0158 PP, ID, mx, tlk, P-F (Stephens, Ronda)
- 15500 CHINA RP 0200 Kazakh HS here on RF //9820 but stronger, F (Bundy-Pac)
- 15505 CHINA RP 0001 Burmese (Hauser)
- 15510 UNID China RP? 1320 EE, YW ann, P (Wells)
- 15520 CHINA RP 0130-0155\* EE, nx, cmtry, G (L. Marshall)
- 17670 EGYPT R Cairo 1209 AA, chants, tlk, E (Wootten-Morocco)
- 17697 CANAL ZONE NBA CW time sta 2250, CW ID, time at 2255, E (Palmer), ID just before the min, (J Fisher)
- 17720 FRANCE ORTF 1044 EE, mx, tlks, E (Wootten-Morocco)
- 17735 CUBA RHC 1740 FF, nx, ID, G (Straus)
- 17770 N ZEALAND RNZ 0300 EE, ID, nx, one night only, G (Palmer)
- 17775 W GERMANY DW 1400 GG to NA, //15245, 21540, (Behr)
- 17775 USSR RM Khabarovsk, 2300-0030 EE to ENA, (Davis)
- 17785 AUSTRALIA ABC 0445, coverage of Aust/Pakistan cricket, //21455, het w/carrier on 17786, P (Bundy-Pac)
- 17795 SWITZ SBC 1117 EE into GG, G (Wootten-Morocco)
- 17795 AUSTRALIA ABC 0140 EE, nx, mx, P (Stephens)
- 17805 SPAIN RNE 1345 SS, xmas carols, F-G (Eichenhorn)
- 17810 MALAGASY REP RN 1400-1500 EE to SEA, ID, s/o, tlk, G (Nikolich, Zilmer)
- 17810 PHILIPPINES FEBC 0145 Indon, ID, xmas mx, s/o 0200, F (Palmer)
- 17815 ECUADOR HCJB 1600-1630\*, musical mailbag, G (Van Horn)
- 17820 USSR R Peace & Prog 1445 EE, tlk, cmtry, F (Wootten-Morocco)
- 17820 CANADA RCI 1530-1600 Polish, EE ammts, tlk, G (Fino); 1904 EE, mx country style, nx, E (Eichenhorn)
- 17845 USA WNYW 1915 EE, mx, tlk, F (Wiseberg)
- 17860 BELGIUM RTB 1545 Lang, IS, ID, bad QRM, (Reynolds)
- 17880 ECUADOR HCJB 1515-1530 EE, mx, rel px, G (Fino)
- 17890 TAIWAN VoFC 0350\* EE, list freq, s/o in EE, (Draut)
- 17895 ZAMBIA RZ 0610 EE, TC, xmas px, not on 11892 this time, perhaps moves to 17895 at 0600?, (Padula-Pac)
- 17895 VATICAN VR \*1550 W/Latin opening amnt, then into Oriental Lang, (Van Horn)
- 17920 EGYPT R Cairo 1350 EE, question & answer, F (Zilmer)
- 17935 BANGLADESH RB 1240 EE, nx, lbx, local mx, CW QRM, P (Imbert)
- 18040 ENGLAND BBC 0425-0430\* EE, WS, cmtry, BBC ID, since when has BBC been on this freq, P (Bundy-Pac). For years, a grandfather freq like 15070 (DF)
- 19260 USA VoA 1910 EE SSB coverage of Apollo 17 landing; 1930 SSB w/FF, PtoP relay, loc? (Hauser)
- 21485 VATICAN VR EE, rel mx & nx, G (Wootten-Morocco) Time? \*1145 EE, IS, P (Bundy-Pac)
- 21485 SWEDEN RS 1400-1430 EE to ECNA, nx, panorama, G (McClure)
- 21525 USA WNYW 1812-1815\* EE, s/o this freq, (Guarducci)
- 21535 S AFRICA RSA 1600 EE, 1755 EE/GG, ID, nx, features, P-G (Sweeney, Eichenhorn)
- 21580 SWITZ SBC 1530 EE nx, features, G (Sweeney)
- 21590 PAKISTAN R Pak \*1327-1345\* EE, TC, dictation speed nx, P (Sykes)
- 21600 E GERMANY RBI 1315 EE, nx, cmtry to Africa, (Zilmer)

21605 KUWAIT RK 0822, AA mx, //21685, P (Bundy-Pac)  
 21610 GREECE NHEI 1359-1413 Greek, flute IS, anthem at s/o to CA, QRM  
 de VoA, (Herson, Palmer); Greek to Australia, mx, strong lvl & NF but  
 QRM de BBC WS on same freq, (Padula-Pac)  
 21720 SWEDEN RS testing new 500 kw tx, 1433-1455, 0900, loc Karlstad,  
 testing various freq. Will probably wipe out somebody when they start  
 using it, (Wootton-Morocco, Sweeney)  
 21730 NORWAY RN 1500 NN, mx, ID in EE, F (Sweeney)  
 25790 S AFRICA 1445 EE, class mx, P (Sweeney)  
 \* \* \* \* \*

Greetings to fellow DXers from the snowy plains of east central Illinois. This is my second, and largest, LR. I thank all those who support the LR by sending in reports. I find LR very useful in my search for new stations and countries. If LR is always supported as well as it was this month, it will continue to be a valuable tool to the hobby. I work with a new SPR-4 and several antiques and would be happy to make personal acquaintance of any DXers in the midwest. My QTH is 411 South Fourth in the little burg of St. Joseph, Illinois 61873. It is about 10 miles E of Urbana on I-74.

73s to all

Jerry A. Lineback

\* \* \* \* \*  
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 say, "Whew!"



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