

FRIENDS

The SHORT WAVE BROADCAST Journal - Since 1962

NORTH AMERICAN SHORTWAVE ASSOCIATION

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WILLIAM P. EDDINGS



HEADQUARTERS CALLING

NASWA Executive Editor WILLIAM P. EDDINGS died August 23, 1972, after a long illness. Condolences may be sent to his aunt, Mrs. Lillian Imler, 2111 Sixth Ave., Altoona, Pennsylvania 16602.

The life of Bill Eddings and the North American Shortwave Association were closely twined. Bill was NASWA...and NASWA was Bill.

Curiously, there is no written history of NASWA. But perhaps that's not so strange after all. Bill always looked forward, never back. There was always next month's bulletin to get out; no time to bother with the past. While Bill, as chief executive, editor, publisher, mimeo-cranker, envelope addresser, stamp lickier and all the rest, was quick to praise his editorial associates and regularly introduced them to members in personal profile columns, never did he do the same in print for himself.

This history of Bill and NASWA must, therefore, be pieced together from the recollections and correspondence of those who had the pleasure of working with him and knowing him as a friend over the years.

The North American Shortwave Association, known then as NASA, was born in November 1961, and was, as all new hobby clubs, a struggling, untried and unproven organization.

Its first real crisis came in July 1963, when the publisher-printer, one Rick Roll resigned. The entire job of running the club and producing the monthly bulletin, FRENDX, fell suddenly on the shoulders of the editor, Bill Eddings. Eddings found himself with the total responsibility for a growing club of some 160 members, but with meager funds and no mimeograph machine. The total monthly cost of putting out a bulletin, including postage, was then \$21.36. The treasury was in such a state that even this small sum caused Bill real headaches.

Bill soon realized that his NASA job was essentially a full time one. His days as an active DXer were over.

He wrote in the September 1963 FrenDX, "The club won't be losing anyone special in me, nor will the hobby be losing a top DXer. I never was and I never claimed to be either! Somehow though, I hope to think I did a bit of good somehow, somewhere along the road, and that in the days to come there will be just one who will recall that NASA was once run by an obscure, humble OM who wanted nothing but friendship and goodwill between those he came to know as brothers. Can anyone say I was wrong in preferring my number of friends over my number of DX catches?"

After a one-month volunteer stint as publisher by Don Erickson (now IRCA publisher), Bill purchased the club's first mimeo. It cost \$69 and was financed by member's donations. That machine served the club for many years though many times Bill must have felt he was virtually chained to it.

In February 1964, the club was continuing to grow and the annual membership fee was \$2.50. Bill was always aware of the limited funds in the pockets of the younger members and was loath to raise the dues except when absolutely necessary to keep the wolf from the door. In May of that year, the club's first board of directors was named.

In 1964, Bill moved from 1521 5th Avenue in Altoona, to a new headquarters site at 1503 5th Avenue. A whimsical note in the October bulletin said he wished he could describe NASA headquarters as a fancy suite of offices in the Chamber of Commerce building, but, in fact, it was merely two rooms on the third floor of "a humble apartment building on the other side of the tracks,"..."too hot in summer, many times rather chilly in winter."

Here it was he cranked the hand-operated mimeograph thousands upon thousands of times, over 100,000 sheets in a typical year. Though few knew it and some bitterly complained when their bulletins were a few days late, NASWA duties in recent years took up well over two normal working weeks of Bill's "spare time" each month!

NASA's organization became more formalized early in 1966, when the membership approved the club's constitution.

A tremendous change occurred in August of that year when the members overwhelmingly approved, by referendum, a switch to all-SWBC coverage. It was the first major North American club to specialize in shortwave broadcast DXing.

Drastic step though it was, Bill favored the change. He was always supporting ideas that could benefit the hobby and his club. He was an early and loudly vocal supporter of the then fledgling ANARC, the Association of North American Radio Clubs. Although he favored the switch to all-SWBC, Bill insisted, over the objections of some of the board of directors, that the final decision be placed in the hands of the membership. And so it was.

In late 1966, NASA became NASWA, because there was some confusion resulting from the use of initials identical with those of the space agency.

There were other changes over the years, expanded bulletins, special services and awards, new columns and the like. And, under Bill's steady guidance the club grew and prospered. It won a top reputation and kept it.

Fortunately, there were other hands to help when illness struck. And, of necessity, when Bill could no longer handle the massive publishing chores, the administration changed.

But, whenever he could, during those periods when he was not in the hospital: when he could get to a typewriter, his editorials and headquarters pages continued to appear in FRENEX. The Eddings touch, "Unity and Friendship," the motto that made NASWA different from other clubs, was still there.

Now he is gone.

A fitting eulogy are these lines. They must have been favorites of Bill, since he published them in the November 1964 FRENEX, and repeated them in the November issues of 1967 and 1968...

Give me the power of a mighty oak
To withstand in youth the mistreatment of mankind,
To stand erect and proud against the trials and misfortunes of life,
To be brave and stronghearted when the icy fingers of age creep into my
body,
To spread out my arms in welcome to all.
And each day, as each season, change myself into a better person, better than
the day before,
And whether in summer heat or in winter cold, stand above the everyday petty
spite and jealousy of all,
And when, in time, it be willed that I must leave, let me then deserve to
hear my friends say,
"A mighty tree has fallen!"

HEADQUARTERS MAIL should be addressed

North American Shortwave Assoc.
P.O. Box 8452
So. Charleston, W.Va. 25303

Please take note of this new address. All membership renewals and other HQ mail should be sent to the new address.

We still have a supply of the first printing of the VERLE SIGNERS LIST. It will not be reprinted, though, till next summer. So get your now. Knowing someone to send a report to can often make the difference between receiving a reply or not. Cost remains a low US\$1 for NASWA members anywhere, sent First Class Mail in NA, airmail overseas. Payment can be made in checks, money orders, US mint stamps, or by 7 IRCs from overseas.

NEW MEMBERS... A Frendx welcome to Sam-Barto, Morris, Connecticut
Mrs. Ann Bell, Fall River, Mass.
David Denbow, Claremont, CA
Gary Hafer, Reading, PA
Freddy Katz, Nashville, Tenn.
Wayne Liston, Anderson, Ind.
J. Cole, Denver, Colorado
Oliver Ellsworth, Los Angeles, CA
Kent Englebert, Statesville, NC
Joseph J. Martin, Riverside, NJ
A Chuck Matlack, Levittown, PA
A George Melton, Cleveland, Tenn.
Robert Zilmer, Milwaukee, Wis.

And, RENEWALS....

John Alcock, Charles Arthur,
Richard D'Angelo, Eric Draut,
Pauline Eynon, Tobias Feuer,
Robert Gill, Irwin Glasberg,
John Hedstrom, G. Alan Hickrod,
Shirley Isaac, Keith Kwiecien,
Ken Lazear, Mike Macken, Paul Mayo,
Kevin Murray, Mike Nikolich, Bert Pector, Frank Peters, Paul Petersky,
Harold Sellers, Bill Simkins,
Howard Stevens, Jerry Stuart, David Sturm, Frank Testa, David Thorne,
Tom Waldron, Floyd Wakler, Curt Wastrodowski, Bill Whitacre, Jim Zabransky.

Also,
Bill Berghammer, Bruce Boomer,
Chris Brooks, William Buell,
Donald Carlson, Richard Clark,
Gerry Dexter, Marlin Dressler,
John Fisher, Edward Giniat,
Bruce Greene, Bernard Heckel,
William Higgs, Don Jensen,
Richard Kamba, Milton Kean, Andy Kerr, Art Mitchell, (next column)

Dr. W.F. O'Rourke, Carroll Patterson
Neal Perdue, George Ray, Robert Rice,
Joseph Ritz, Dillard Stone, Brooks Sweeney,
Gary Wallin, Michael Watman.

Members should note that mail is being forwarded from the Altoona address, but, of course, it takes time. Full records will be available here in about two weeks after a vist to Altoona is made.

NEW MEMBERS PACKETS are temporarily out of stock, as there have not been picked up from Altoona yet. Membership certificates, and the stickers which go on them will be available again shortly.

The Charlie Loudenboomer series is now being stencilled, and should be available this fall. A number of other past articles from Frendx will also be made available this fall. Watch for the announcements.

We are pleased to announce that ace DXer AL SIZER will be taking the editorship of the Shortwave Center beginning with the December issue. Al is a professional journalist, top DXer, and a regular contributor to the various sections of Frendx. Certainly all who know him look forward to his efforts in Frendx, and those who meet him through these pages will soon find his sections to be a great help in their Dxing.

Rumor has it that several NASWA members will be spending a weekend in early October in a fire lookout tower on top of a tall mountain somewhere in Virginia. No, they won't be looking for fires, but for DX. Watch the November FRENDX for a report on the weekend.

Through arrangement with the BEC Monitoring Service NASWA is permitted to publish schedules compiled by BEC MS. These skeds and other notes from BEC MS are published in Frendx for use by NASWA members. The material is copyrighted by BEC MS, and we cannot grant permission for other clubs to publish it! We would much appreciate it if this fact would be kept in mind by both individuals and clubs who receive Frendx.

A similar arrangement holds with the British Association of DXers (BADX). We cannot grant authority to reprint material credited to BADX, simply because it is not ours to grant! Same for the occasional item credited to UADX (Union of Asian DXers). In fact, we feel permission for reprinting any item should be obtained from the originating club. And addresses of any clubs quoted are available from HQ.

THE LOUDENBOOMER REPORT

Woe is me! You're not going to believe what's happened! Let me tell you my sad, sad story.

You've probably heard occasional whispers about such things as exclusive, limited membership DX organizations. Usually, you get in by invitation only. Well, for some odd reason, I'd never been invited to join one of these groups, and I thought it time I did something about it. So I picked one out. I finally got ahold of an address and wrote a letter including all the pertinent information about myself.

In return I received a 14 page questionnaire which I had to fill out and return. Well, I went along with it because I wanted very much to join.

Then one evening several days later, there was a knock at my door. I answered and there stood a fellow I'd never seen before.

"Mr. Loudenboomer," he said. "I represent the _____ which you inquired about joining. Your application has been accepted up to this point. My purpose now is to interrogate you further. This should only require about four hours. Kindly show me to your monitoring quarters."

I was flabbergasted! But, still wanting very much to join, I took him into the monitoring quarters (shack to you.)

"Hmmm" said the stranger. "Looks a little sloppy Loudenboomer. Not good at all. Ah well, get some paper and a pen and get ready to answer these questions."

I was beginning to shake in my boots a bit, but I managed to find some paper and a pencil stub.

"What station would be on 3112 MHz at 0600 GMT in Kinyarwanda? "Beginning at 4650 and going up through 5050, list all stations likely to be heard between 0000 and 0600 GMT. What is the number of IRCs required for a letter posted in the Maldives? Listen to this cassette and identify all the Latin American interval signals you hear."

He then proceeded, after 43 more questions, to have me open up the receiver so he could check to see how clean it was, had me tune the bands for an hour and ID every station I tuned, checked all my QSLs for accuracy and a dozen other things. It was nearly 2am when he said,

"Well, that should do it. Not too bad considering the mess. You'll hear from us. Goodnight!"

The next morning, things got worse! I had no sooner walked in the office door where I work and my boss yells "Loudenbloomer you're fired!"

Now that really put a crease in my day!

"Fired? Fired?? What do you mean 'fired'? What did I do? I didn't do anything that's what I didn't do!"

"Ah, don't give me that innocent bit Loudenbloomer!" (Four years and he still can't get my name right!)

"I know all about what you've been up to! You've applied for a government job with some cloak and dagger outfit. That Federal agent character was in here asking all kinds of questions about you. Hinted you were out to make the big time. So you're not good enough for us plain folk eh? You're here to resign, so you're fired! Get out of here and take that noisy shortwave set off your desk too!

It was no use arguing. I had been torpedoed, but good. I grabbed my Altruistic portable and went home.

Three days later the mail brought the coup de grace. "You are hereby notified that your application for membership in _____ is refused. Anyone who is unable to identify 3112 in Kinyarwanda at 0600 GMT does not belong in our group. Besides, your monitoring quarters are reported to be in a mess.

Well, nothing to do but get out the broom I guess.

73, Charlie

MAIL CALL!

Reply to: (Deadline 20th)

Edward C. Shaw
621 Burleigh Avenue
Norfolk, Virginia 23505 U.S.A.

LETTERS TO THE CORRESPONDING SECRETARY

Summer time has naturally taken its toll of time spent or available for DXing. The volume of mail has dropped, which is expected. Therefore, a single page is devoted to questions of wide general interest. With the return of the Fall/Winter DX season we will expect many more letters and questions. Now, for this month we have.....

Dear Ed: I would like to orient my 50 foot longwire antenna in the best direction to favor reception from Africa. Can you suggest how to do this?

Answer: One of the greatest misconceptions is that a long wire is directional off the ends. This is true only in the case of a very long wire, and even then it is only generally directional. Your 50 foot longwire has good omni-direction qualities. If you earnestly desire to favor Africa - keep in mind that a directional antenna does not add gain for that direction, but tends only to null reception from right angles. A dipole antenna oriented broadside to the direction of Africa is your best bet. This would be nearly due east.* And, most important, the dipole must be for a specific meter band or else it becomes directional in other angles. For example, a dipole for the 60 meter band will be directional broadside - for DXing 60 meters. However, if you attempt to DX the 31 or 25 meter bands, your dipole will become receptive from other angles from broadside. The reason requires some reading, and I recommend you visit your local Radio Shack or order from GILFER the book entitled "SWL Antenna Construction Projects", by Edward M. Noll. (*For most of eastern U.S.A.)

Dear Ed: How many times can I count a radio station as another country in cases like Bangladesh, formerly East Pakistan, formerly Bengal East India?

Answer: You haven't read the NASWA criteria closely enough. NASWA maintains that a station once heard as a separate country, always counts as a separate country. In the case of Bangladesh, many DXers had formerly verified that country when it was still East Pakistan, and may not count it again. However, if anyone had verified Dacca when it was still a part of India, they simply have a QSL from India. It counted as a separate country when it became East Pakistan. It does not count a third time simply because the country changed names.

Dear Mr. Shaw: I just began SWLing and enjoy it very much, but I find it difficult to identify some stations using the same frequencies as Radio Moscow. These other stations are just as powerful, but have different Interval Signals.

Answer: Sooner or later, Jim, you would have stumbled on the answer yourself. You are undoubtedly hearing various interval signals which are used by Radio Moscow to ID specific programs. Most notable are the separate interval signals used for Radio Stansiya Atlantika for Soviet mariners at sea; Radio Peace and Progress, the voice of Soviet opinion; Radio Stansiya Rodina, for Soviet citizens abroad; and various relays of programs from Radio Kiev, Ukraine; Radio Vilnius, Lithuania; and Radio Yerevan, Armenia. There are several more as well. Keep in mind that these are not different radio stations, but only handy identifications for specific programs broadcast by Radio Moscow. BBC also uses several various interval signals for different programs, as do many other broadcasters. This may be a good subject for a short FRENEX article if someone would care to research it and submit it.

And a big 73 for this month. Keep the questions coming. All questions cannot be used, but if you desire a personal answer, please enclose a self-stamped envelope. Only the questions with wide general interest can be selected, and a reply may not always be sent if no postage is provided.

Edward C. Shaw

Temporary Editor - Dan Ferguson. The new editor, Al Sizer, begins with the December issue. Until then, send all material for the SWC section should be sent to the HQ address: NASWA, P.O. Box 8452, So. Charleston, W.Va. 25303 USA.

||||| 49 METER BAND SURVEY |||||

With this survey we complete a series covering the frequencies from 1605 to 7000 kHz. Surveys of 1605-4000 kHz and of 4000-5700 kHz are available in mimeo form from NASWA headquarters. The 60 meter survey(4000-5700 kHz) is being revised, and a free copy of the new survey is available for a SASE(self addressed stamped envelope) with 24 cents postage affixed.

No attempt has been made in this, or in the other, survey to include every station listed on each frequency. We have included stations that are, or at least have been, audible on the bands in recent months. The survey is done with the fact in mind that most of those using it will reside in North America. This does not mean that information from outside North America has been excluded. Rather, that the emphasis has been on North America, and that many fade-in and fade-out times are given, and these represent, for the most part, fade-in and fade-out in North America. But even that is nothing rigid, since fade-in and fade-out times will depend on the part of NA in which the listener resides. In any case, most every station listed here will at one time or another be audible in North America, but not necessarily at the times listed, since we are, except where noted, listing actual loggings here, not just schedules.

Many DXers provided help with this survey. So many, in fact, that it would not be practical to list them all here. However, special thanks are due to Anker Petersen of Denmark, Bob Bundy of Truk, and Larry Magne of Philadelphia.

A few items carry references to the BBC MS or to BADX. As usual, these items are used by permission, and NASWA cannot grant permission to reproduce them. Other than these items, we have no objection to the quoting of items from this survey, since our purpose is to provide a useful tool for the DXer and the DX editor.

- 5804 YEMEN R. Sanaa, Arabia *0300-0500+/-1700-2130v s/off
 5845v SUMATRA RRI-Pakanbaru; 1000-1539*; may s/on 1000.
 5850 CHINA R.Peking, Mongolian 1200-1300, 1400-1500, 2300-?
 5870v N.KOREA Pyongyang; KK HS II from 0800 & *2000(noted on Truk); sometimes used as "numbers" station around 1600.
 5874v HONDURAS LV de H., Tegucigalpa; in the 0000-0400 period. Old 0400* time appears to have been extended.
 5895 UNID seemingly Korean 1245
 5900 CHINA Fukien Front Station; *1000-1420*v
 5900 RFSFR(Eur) Moscow(list WRTH) RM HS 1500-0600(BBC MS). Noted 1600 past 0200; often // 5915, 5940
 5905 USSR (Eur) RM, RR to 2130; also in 0700-0730 f/o period(on Truk). Also HS 2320; so is much extended beyond the 0300-0530 BBC MS sked/
 5910 USSR (QTH) hrd on Truk; 1700, 1800 & 0800 f/o. So extended beyond the BBC Monitoring Service 1500-0600 sked.
 5915 UNID seemingly RR 2000 on Truk
 5920 Byelorussian SSR Minsk, 1700 RR QRMs RM CC(on Truk); 2000 EE, //5950.
 5925 UZBEK SSR Tashkent; RR 1700
 5930 CZECH R.Prague; to NA/SA 2130-0400; EE 0100-0200, 0300-0400; to Af at 1630-2130(BBC MS)

- 5930 RSFSR(Eur) Arkhangelsk list, RR 1600-2100+, on Truk.
- 5935 TIBET Lhasa, "Hsi Tsang Jenmin Kwangpo Tientai". Best time in NA seems to be 1200 and 0000; local ID given 1159 & 2359. Check //s 4035 & 9490. Noted on Truk 1030-1500 CC, 1500-1600 Tibetan(presumed), Hindi to 1800.
- 5935 LATVIAN SSR Riga; 0300-2100(BBC MS) Noted 0300-0340+ in NA.
- 5940 RSFSR(As) Magadan; -0630-1100 & from 1800-2100+.
- 5940 RSFSR(Eur) 2nd RR stn here, used in Foreign Service in winter.
- 5945 ALBANIA Tirana; Greek *0430-0457*. Changes seem to have been made since BBC MS put their sked together.
- 5950 NICARAGUA R.Zelaya, Bluefields; has long been here, not listed 5955. Best time seems to be 2330-0200 period; s/off 0200.
- 5950 USSR R.Moscow Chinese noted here 1900-2100+.
- 5950 CHINA Heilunkiang; CC to 0900, Korean 0900-1000; CC 1000-1426* //4914.
- 5950 EGYPT Cairo; AA 1600, AA 2200-2258*
- 5950 PERU R.Arequipa, 0000-0530+; best times in NA 0100-0400.
- 5955 COSTA RICA R.Casino; SS 0000-0430, EE 0430-0600*; AM checks needed.
- 5955 GUATEMALA TGNA, R.Cultural; *1100-1230+; EE 0300-0430*; sometimes AN of late.
- 5955 GREECE Serrai; 0430-1300/1500-2200(Su 0430-2200). (BBC MS)
- 5955 S.AFRICA SABC 0400-0500+, internal svc.
- 5955 FRANCE ORTF, Allouis; FF *0558-0830+. Also, past 2000.
- 5955 BRAZIL R. Gazeta de São Paulo, *0900-1000+/ 2330-0300+.
- 5955 VoA, 0500-0730/ 1100-1400.
- 5960 RSFSR(As) Vladivostok; RM JJ 0800-1100//6020/6100; EE 1100-1200, JJ 1200, EE 1230, JJ 1300-1330; CC 1330, JJ 1400-1430(all from BBC MS). Some loggings show JJ 0800-1200.
- 5960 GREENLAND Grønlands Radio; Nothing recent, but try s/on IS 1012.
- 5962v COLOMBIA LV de Bogota; 24 hours.
- 5962 HONDURAS LV de Occidente; 1100-1200+/ 2300-2330. Don't confuse Colombia.
- 5962 Bolivia R. Pio Docs, also operates here.
- 5965 BRAZIL R. Guaiba; Porto Alegre; *0800/ 2200-0300.
- 5965 MOROCCO VoA-Tangier; 0300-0730.
- 5965 MALAYA RM-KL; Malaysian Svc 0930-2100+. ITU shows 24hrs.
- 5970 CANADA a0400-0800a No. Svc/ 0830-0930 Australasian Svc.
- 5970 PERU R. El Sol; 24 hrs.
- 5970 KAZAKH SSR Alma Ata; RR HS 0000-1600*
- 5970 RSFSR(As) Nikolaevsk, RR HS past 1600; registered w/IFRB for 24 hr operation.
- 5970 W.GERMANY RFE-Biblis/Holzkirchen; apparently 24 hrs, except 0200-0400.
- 5975 ENGLAND BBC; SS 0000-0415/ BBC WS 1700-2100+
- 5975 UNID RR lang stn, 1700-2000+, hrd in Truk.
- 5975 BRAZIL R. Guaraja, Florianopolis; 2230-0300/ *0900, lately on 5977.
- 5975 CHINA RP Korean 1100-1500
- 5975 AUSTRALIA RA, CC 1400-1500/ EE 1500-1730
- 5980 LEBANON Beirut; *0400-0500+/1700-1800+; all AA.
- 5980 S.AFRICA R. RSA; FP 2100, EE 2215-2315*
- 5980 EL SALVADOR YSS, R.Nacional; 1200-0500//9553.
- 5980 GEORGIAN SSR Tbilisi; RM Foreign Svc 1800-2100+.
- 5980 SIERRA LEONE SLES, Freetown; 0600-0800+.
- 5980 SABAH RM-Kota Kinabalu(tx at Tuaran); CC 0900-0930, then Malaysian dialects. KL N+E 1100; sked to 1600//4970, ex 7180 & 7240, so don't look there.
- 5980 GUYANA R.Demerara; try 0915 s/on.
- 5980 GREENLAND Grønlands Radio; try s/on IS 1012.
- 5981 PERU R.Panamericana; Try about 1100 for s/on; 0500*.
- 5985 NEW BRITAIN ABC Rabaul; 2230-0530 sked; also noted around 1030.
- 5985 TANZANIA RT-Dar es Salaam; *0257-0500 Swahili, often noted NA. BBC MS shows a *1430-2000* tx. Has been noted 1445 in Australia.
- 5985 ARGENTINA R. Splendid; 0930-1030.
- 5985 RUMANIA R.Bucharest; *0300 EE to NA.
- 5985 W.GERMANY RFE 0400-0900+ Hungarian, unjammed; Rumanian 2330 & jammed.
- 5987 SULAWESI RRI-Menado; *0830-1500; EE lang lesson 1245 Thur.
- 5987v SAUDI ARABIA Riyadh; *0300-0830* & *1000-2300*, per BBC MS. Noted 0300 in NA; also 2230.
- 5990 VENEZUELA R.San Cristobal; 0000-0515/ 1200-1300+. Usual sked unknown.
- 5990 ITALY RAI; 0410-0435/ 1910-1945+

5990 PHILIPPINES DZK9, ABC-(EN B/C Corp., Quezon City; 1000-1030/1300 EE.
 5990 BRAZIL R. MEC; 0000, //11950.
 5994 UNID - maybe Arabic, 1925 mix 5995, hrd on Truk.
 5995 POLAND RW, Polish 0000-0200, 1100GG, 1130-1400 mx, 1400 Polish, 1500 Swedish, 1530 Danish. Transmission runs to 2300, at least.
 5995v MALI R. Mali; 2100-0000*.
 5995 VATICAN VR; SS 0040, EE 0050, FF 0110.
 5995 AUSTRALIA RA, 1000-1200.
 5995 MARTINIQUE ORTF, 0100-0130+.
 5995 USA VoA Gvl; 0200-0730 EE; carrier comes on abt 0145.
 5998-3/4 BRAZIL R.Inconfidencia; *0800-0930+ / 2300-0300.
 6000 AUSTRIA Aldrans; *0400-0500 in NA; 0840 in Eur.
 6000 AFGHANISTAN RA, Kabul; 1130; *0200.
 6000 CHINA Chechiang; CC HS f/i 0930 on Truk.
 6000 UNID CC spkr from abt 1200, noted on Truk; possibly Singapore.
 6000 1/2 SINGAPORE R.Singapura; 1045 Chinese.
 6001v BOLIVIA R.Progreso; 0900-0930.
 6005 JAPAN NHK Matsuyama; -0800-1500 Japanese HS.
 6005 CANADA CFCX, Montreal; -0200-1300+; operates 24 hrs.
 6005 ASCENSION IS BBC-AI; English 2115-0400.
 6005 W.BERLIN RIAS; 1715a-0315.
 6005 W.GERMANY RIAS-Ismaning; 0315-1715a.
 6005 USSR Voronej; RR HS 1700 / 2200-0000.
 6006 1/4 COSTA RICA R.Relejo; 0000-0630+ / 1100-1200+
 6010 CANADA CJCX, Sydney; 2200-0100 / 0300-0400 / 1000-1200.
 6010 PORTUGAL DW Sines; 2245-2345 Serbo-Croat.
 6010 ECUADOR HCJB *0400-0530*; then shifts to 6015.
 6015 COLOMBIA R.Mira; *1100-1300+; 2200-0500*
 6015 IVORY COAST Abidjan; *0600, 0000*.
 6015 ECUADOR HCJB *0530-1000*.
 6015 BRAZIL RC Pernambuco; *0800-1000+
 6015 DODECANESE IS VoA Rhodes; AA *0400-0600*; EE (+other langs?) *1600-0000*.
 6020 COLOMBIA LV de Colombia; *1000-1200+; 2200-0500*.
 6020 PERU R.Victoria; -0500-0700*; 1030-1100+.
 6020 USA VoA-Gvl; 0200-0515.
 6020 MOROCCO VoA-Tangier; 0515-0600.
 6020 NETHERLANDS; RN, Lopik; 0930-1050 EE; 1100-1220 Indon; 1230-1350 SS; 1400-1520 EE; 1530-1650 DD; 1700-1820 AA; 1830-1950 EE; 2000-2120 SS; 2300-0020 SS.
 6020 NETH. ANTILLES RN-Bonaire-N; 2130-2250 DD; 0030-0150 SS.
 6020 MALAGASY RN-Talata Volon; 1700-1820 DD; 1830-1950 EE;
 6020 MEXICO El Eco de Sotavento; -1130-1200+; 0515-0600*.
 6020 RHODESIA Gwelo; has extended former *0620-1450* sked, now going beyond 1500.
 6020 VENEZUELA LV de Anaco; *1000-1200+
 6020 UKRAINIAN SSR Kiev; RK HS, Ukrainian 0845 & 1825 noted in Eur. IFRB shows HS 0530-1600; FS 1630-2130 to Eur.
 6025 PORTUGAL RP; *0000-0430* to NA(EE 0200-0245/0345-0430); *0445-0600+ PP.
 6025 NIGERIA NBC Enugu; *0430, QRM RP from 0445; also 2130-0000.
 6025 HUNGARY R.Budapest; SS 2300-0000.
 6025 CLANDESTINE Nat'l Voice of Iran; 1730-1815, per BBC MS, prob via Baku.
 6025 BRAZIL R. Piritininga; *0800-1000+.
 6025 MALAYA RM-Kajang; Chinese -1200-1630*
 6030 CANADA CFVP, Calgary, Alberta; 24 hrs; noted -1100-1400+, -2100-2300+.
 6030 COLOMBIA R.Nacional; *1100-1200+; 0000-0500*.
 6030 PHILIPPINES FEBC; EE -0830-1330*; CC *1345-1615*; EE/Tagalog around 2100.
 6030 IRAQ Baghdad; -0300-0500+.
 6030 RSFSR(Eur) R.Moscow; HS 2200-0430(per ITU) 2300-0430(per BBC MS).
 6030 W.GERMANY SDR Stuttgart; 0500-0700+; 2200-2230.
 6034.3v CLANDESTINE VoThai People. //9423 *1200-1245* in NA. Noted elsewhere at 0300-0445, 0500-0630, 1000-1045, 1100-1145, 1200-1245, 1300-1345, 1530-1600, and maybe other times, too.
 6035 BRAZIL R. Globo; *0800, past 0230; may s/off 0300.
 6035 NIGERIA Enugu - moved to 6025.
 6035 RSFSR(As) Vladivostok; HS 1000-2100(ITU), noted 1100-1200+ in NA.

- 6035 POLAND RW, 2130-0400; EE 0300-0325.
 6035 MONACO R.Monte Carlo; FF HS -0800-0845+; also around 1835(in Eur).
 6035 LIBERIA VoA Mva; *0300-0800*
 6037 COSTA RICA TIFC, Faro del Caribe; *1100-1300+; 2300-0415 w/EE 0300-0415.
 6040 COLOMBIA LV del Tolima, Ibague; 1030-1200+; 2300-0500* SS.
 6040 ENGLAND VoA- Woof; 0300-0730 EE; 1830-2230.
 6040 MOROCCO VoA Tangier; 2230-0000*, EE.
 6040 W.GERMANY VoA - Munich; 1600-1830.
 6040 UNITED ARAB EMIRATES Dubai; 1145-1230+ in NA.
 6040 PORTUGAL DW Sines; 0800-0825 Serbo-Croat.
 6040 TAIWAN VoFC; -1000-1800+; varies several kHz, usually heavily jammed. Beamed to mainland in various Chinese dialects.
 6045 GREECE FBS; BBC MS lists 0430-0000, ITU lists 0630-0100; in NA try 0430-0515+.
 6045 PERU R.Santa Rosa; *1100-1300+; 0000-0500*.
 6045 PANAMA LV del Baru, tho officially inactive, was occasionally noted during early 1972 on Sat evenings only.
 6045 BRAZIL RC Paranaense; *0800-1000+; 0000-0300*.
 6045 INDONESIA RRI-Djakarta; -1200-1600+
 6050 ECUADOR HCJB; SS 2300-0400*; 1100-1200+ SS.
 6050 RSFSR(As) Irkutsk; -0900-1400+ RR HS.
 6050 ENGLAND BBC, EE 0200-0730.
 6050 CYPRUS BBC Limassol; Turkish 1815-1900.
 6050 NIGERIA W.Nigerian Radiovision Svc, Ibadan; *0600+; also 2200-2225 when BBC off. Operates 0600-2300.
 6050v MOZAMBIQUE RCM; *0400-0500+; also 1400 in Australia.
 6052v HONDURAS R.America; 2100-0500*; 1100-1200+; sometimes all night.
 6055 COLOMBIA R.Pacifico; Cali; checks indicate this one is 24 hrs.
 6055 AUSTRALIA RA Darwin; Indo 1000-1500; EE 1500-1730, EE 2100-2215.
 6055 RWANDA Rdiff d.l. Rep.Rwandaise, Kigali; *0330-0440+ FF, lang.
 6055 JAPAN NSE; -0700-1500+ JJ HS.
 6055 CZECHOSLOVAKIA Prague; *0600-0900+;
 6055 ESTONIAN SSR Tallinn; 0400-0700 FS in winter; ITU shows 1900-0300.
 6055 USSR RM HS, "Mayak" 2330-0000 under Tallinn, noted in Eur.
 6060 ARGENTINA R.Nacional; *1000-1100+
 6060 CUBA RHC; *2200-0600*
 6060 SICILY RAI Caltanissetta, 24 hrs, in NA try 0500.
 6060 ZAMBIA Lusaka; sometimes after 0600, mixed Caltanissetta, in NA.
 6062 THAILAND Bangkok; -1230-1300+
 6060 RSFSR(As) Chita; RM CC 0800-2000+
 6065 ENGLAND VoA-Woof.; 0300-0730.
 6065 COLOMBIA R. Super; 24 hrs.
 6065 USSR RM HS, "Mayak" 0000 & 1840, noted in Eur.
 6065 BRAZIL R.Nac. Brasilia; *0800, 2300-0200+
 6070 THAILAND R.Thailand; 1000-1558*.
 6070 WEST IRIAN RRI-Djajapura, *0800-1100*
 6070 GHANA R.Ghana; 1900-2215*.
 6070 CANADA CFRX, Toronto; 24 hrs.
 6070 RSFSR(As) Khabarovsk; 1100-1200+.
 6070 JAPAN NHK, Korean *1130-1216*
 6071 VENEZUELA R. San Sebastian; *1000-0400*.
 6075 COLOMBIA R. Sutatenza; *0900v-0400*v
 6075 W.GERMANY DW, 0130-0250 EE, 0430-0550EE; 0700-0900+; Rumanian 1840; sked is incomplete.
 6075 S.AFRICA SABC, 0400-0600+
 6075 SRI LANKA CeBC, Ekala; Hindi -1130-1700+, //11800.
 6075 USSR Volgograd, RM HS -1600-2000+
 6075 URUGUAY R.Ariel, Montevideo; *0800-1000+
 6076v HONDURAS LV del Junco; *1100-0100*
 6080 E.GERMANY RBI-Nauen; -2200-0030* to Eur.
 6080 NEW ZEALAND RNZ; *0600-0845*; *1700-1945*.EE.
 6080 ENGLAND VoA-Woof; 0400-0600 to Eur.
 6080 S.AFRICA R.RSA; EE to NA 2330-0320.

6080 RSFSR(As) Komsomolsk; *0800-2100* RR HS
 6080 MALAYSIA BBC Tebrau; Indo 2315-2330; E by R for Indo 2330-2345.
 6080 CANADA CKFX, Vancouver; B.C., 24 hrs.
 6080 JAPAN NHK, Korean 1130-1215.
 6080 ENGLAND BBC; 0050-0110 Hindi, 0110 Urdu, 0140 Hindi, 0200 Persian to 0230.
 0330-0345 Swahili.
 6080 ALGERIA RTVA, 2100-0100; 0600-0800+
 6080 CIANDESTINE VoLiberty, PP *0015-0100* Su
 VoStorm here *1830-1930* per BEC.
 6082 PERU R.Nacional, Lima; *1100-0500*.
 6085 ZATRE R.Kisangani; *0400-0500+; best 0400-0430 in NA.
 6085 BRAZIL R. Jornal do Comercio; *0900-0300*.
 6085 W.GERMANY Bayerischer Rundfunk; 0500-0000.
 6085 ESTONIAN SSR Tallinn; 1900-2200*
 6085 INDIA AIR Madras; 1300-1600+
 6085 NETHERLANDS RN-Lopik; SS 2130-2250.
 6090 LUXEMBOURG RL; *0400-0200*.
 6090 MEXICO R. Mante; *1300-1330+
 6090 NIGERIA RTV Kaduna; *0430-0530+
 6090 AUSTRALIA ABC Sydney; 2000-1400; June/July carried Aust/Eng cricket to as late
 as 1730, like most ABC domestic stations.
 6090 ARGENTINA R.Belgrano; 0200-0400
 6090 RSFSR(As) Irkutsk; -1000-1500+ RR HS.
 6092 CAMBODIA RNK; now apparently gone; where to??
 6093 SOMALI REP Mogadishu; *0300-0400+
 6095 PERU R. Nac. 1080; *1200-0600*
 6095 COLOMBIA LV del Centro; *1000-0600*
 6095 BRAZIL Rdif São Paulo; *0800-0100+
 6095 IRAQ Baghdadl *0256-0330+; still here?
 6095 POLAND PR; 0400-0700+
 6100 W.GERMANY DW-Julich; 0000-0600GG
 6100 USSR Kursk; -0400-0600; -1900-2000+
 6100 AUSTRALIA RA Darwin; 1230-1500 CC; EE 1500-1730; Cantonese 1130-1230.
 6100 RSFSR(As) Vladivostok; JJ/CC 0800-1430+
 6100 ECUADOR LV del Volante, Portoviejo; 2300-0000.
 6100 VENEZUELA Senales Horarios; 0500-0800+
 6100½ NIGERIA NEC Maiduguri; *0500-2300a*
 6100 MALAYSIA RM-KL; Thai *1315-1345*
 6100 NICARAGUA R.Hernandez de Cordoba 2330-0000*
 6104v UNID - several loggings of this one past 1500, by Bundy on Truk.
 6105 COLOMBIA R.Vision; *1000-1300+/2200-0500. Sometimes *0900.
 6105 TANZANIA *0300 Swahili
 6105 MEXICO XEQM R. Yucatan; Merida; *1200-0600*
 6105 W.GERMANY RFE; 0400-0800+; 2000-2300*
 6105 TAIWAN Air Force Stn, Taipei; -1100-1300+ CC
 6105 PERU R.Nacional Tacna; 0400-0500
 6110 AZERBAIJAN SSR R. Baku; *0200-0400+; 2000-2100* Home Svc.
 6110 ENGLAND BBC; EE to NA 2115-0415.
 6110 NETH ANT TWR, 0800-0900 PP.
 6115 BRAZIL R. Tupi; -2300-0200+
 6115 MEXICO XEUDS, R.Univ de Sonora; -1700-0200+
 6115 CONGO RTVC; 0430-0800+; 2000-2305*
 6115 PERU R. Union; 0300-0415+; *1100-1230+
 6115 COLOMBIA LV del Llano; (0900-1200+; -0300-0500
 6119 VENEZUELA R. Angostura; 0900; 0000-0030+
 6120 SWITZERLAND SBC; 0130-0145 to NA.
 6120 ARGENTINA R. El Mundo; 2300-0200+
 6120 HAITI 4VE; -1000-1500+; -2300-0130+
 6120 UNID, prob FEBC; Chi lang stn w/possible EE 11 2150, on Truk.
 6125 BRAZIL R.Nac. de São Paulo; 0000-0500
 6125 VoA-Gvl; 0300-0600+
 6125 ZAIRE R. Kasai; *0400-0500+
 6125 HONDURAS R. Suyapa; 2200-0630v*

- 6130 CANADA CHNX, Halifax; 24 hrs.
 6130 JAPAN NHK II, Kumamoto; 2030-1500, EE 11 0900-0930
 6130 LAOS Vientienne; 1200-1230+
 6130 GHANA Tema; 1900-2130+
 6130 RSFSR(As) Novosibirsk; RR HS 0730-2130
 6133 $\frac{1}{2}$ Probably BORNEO RRI-Samarinda; in the 1000-1100 slot, noted on Truk
 6135 POLAND RW; operates 24 hrs, except may be the 0800-1000 slot. Has EE 0200-0225 & 0300-0325; many //s.
 6134v ALBANIA Tirana relay of R.Peking; SS 2300-2355
 6135 CHILA R.Univ. Concepcion; *1100-1200+
 6135 S.KOREA VoFK; 24 hrs Korean HS; hrd on Truk 0930-1730+
 6135 TAHITI R. Tahiti, Papeete; 0300-0800 HS; but this fqy may be inactive now.
 6140 AUSTRALIA ABC Perth; *1000-1600* EE HS
 6140 COLOMBIA R. El Sol; Cali; 24 hrs.
 6140 SPAIN RNE; 0100-0445 EE to NA; sometimes uses 6130 instead.
 6140 CZECHOSLOVAKIA R.Prague; EE *0700-0755*; C/S *0800-0900.
 6140 JAPAN NHK; Korean 1130-1215
 6140 USSR Voronej; RR HS 1500-2000+
 6144 ECUADOR R. Vision de Manta; around 0415 when DW off air.
 6144 NIGERIA NBC Calabar; 1930-2302*. *0430-0630+. EE & lang.
 6145 USA VoA-Dixon; 1100-1600.
 6145 INDIA AIR Delhi; 1500-1600* EE
 6145 BRAZIL R.Nac Rio; 2200-2350, then covered by DW.
 6145 ALGERIA RTVA, AA around 2215. Carries VoLiberty in PP *0015-0056* Su only.
 6150 COSTA RICA R. Atenea; 1000-1030+; 0000-0530+
 6150 AUSTRALIA ABC Melbourne(Lyndhurst); 0800-1400 EE.
 6150v ROMANIA Bucharest; 2230-0500 to NA/SA; EE 0130-0230, 0300-0330, 0430-0500.
 6155v SINGAPORE R.Singapura; 1100-1400+, Malay
 6155 AUSTRIA ORF; *2300-0400*; *0400-
 6155 JAPAN FEN, 24 hours.
 6155 SWAZILAND SR; *0400-0500+
 6155 $\frac{1}{2}$ IRAQ Baghdad; 0400+
 6155 W.GERMANY DW-Wertachtal, 500 kw; testing here & elsewhere at various times. Sitting right on top of stations that have been there for years:
 *6155 USSR R.Moscow Chinese & HS in 1700-2000 period.
 6160 CANADA CKZU, Vancouver; 24 hrs. EE
 6160 CANADA CKZN, St. John's, NB; 24 hrs. EE
 6160 COLOMBIA Emisora Nueva Granada; 24 hrs. SS
 *6165 MEXICO LV de la America Latina; *1200-0600*
 6165 BRAZIL R. Cultura, São Paulo; *0800. Also 0000-0300+
 6165 S.VIETNAM VTVN; -1000-1400+
 6165 SWITZERLAND SEC; 0600-2200+
 6165 E.GERMANY R.Budapest(REI relay); HH 0100, EE 0300.
 6165 RSFSR(As) Vladivostok; CC 0800-2100+
 6170 MOROCCO RTVM via VoA facilities; -2000-0000*
 6170 ISRAEL IBA; 1600-2200+
 6170 W.GERMANY DW-Wertachtal; *0130-0250* EE to NA, testing.
 6170 VENEZUELA R.Nacional; 2130-0400*
 6175 ANGOLA A Voz de Angola; 2200-2300*
 6175 $\frac{1}{2}$ BRAZIL R. Guarani, Belo Horizonte; *0800-1000+; 0000-0200+
 6175 PERU R. Tawantisuyo; 0430-0500+
 6175 MALAYSIA VoM; 0800-1600* Indonesian
 6176 CHINA Sian; 1600-1620* CC
 6178 CHINA prob. Sinkiang, Urumchi; 1634*
 6179 $\frac{1}{2}$ VENEZUELA R. Turismo; *1007-
 6180 GUATEMALA LV de Guatemala; *1200-1300+; 0000-0500*
 6185 W.GERMANY DW; 0430-0600 EE
 6185 ETHIOPIA R.Ethiopia; 0330-0415 $\frac{1}{2}$ Amharic
 6185 MEXICO LV del Maestro; noted irregularly around 1300.
 6185 USA VoA-Delano; EE 1100-1200, then SEA langs.
 6185 BRAZIL R.Bandierantes; *0800-0100+
 6188 IRAQ R.Baghdad; around 1800 //6095, noted in Australia.
 6190 MOROCCO Sebaa-Aicun; -2200-0000*

- 6190 JAPAN NHK Osaka, HS 1; 0700-0800*, sometimes later; JJ HS.
 6195 S.AFRICA SABC; Springbok Radio; -0300-0500+; 1400*
 6195 TUNISIA RTT; 0500-0530+; 2200-2355*
 6195 HAITI Rdiff Haiti; still active?
 6195 BRAZIL Em Continental; 0000-0200+
 6195 MALAYSIA BBC Tebrau; 1100 past 1400
 6198 PERU Unid Peruvian has been noted to operate here, in the 0200-0400 period. Thought possibly to be R. Sudamerica.
 6199 CLANDESTINE Pathet Lao; 2230-0230, 0300-0600, 0900-1600 sked; audible ECNA mornings. Is Vietnamese 1145-1200, not Lao as often reported.
 6200 ALBANIA RT; EE 0130-0157, 0230-0257, 0330-0357 to NA // 7300
 6200 CLANDESTINE(Bulgaria) Our Radio; 0600-0625 Turkish.
 6200.7 USA Feeder, Philadelphia, PA carries pgms of KYW-AM & WHYI-TV, noted nights; e.g., to 0951*, not // KYW/WHYY; AM mode, so may mislead someone into thinking he has new SWBC stn here. Has been here for years. (This included to point out that these things do exist. DF)
 6206 INTERNATIONAL WATERS RNI; 0300-0600+; 2200-0130+. What is sked? 24 hrs?
 6225 NETHERLANDS World Music Radio (pirate); noted in England 0947-1017 Su.
 6250 EQ. GUINEA R.Santa Isabel; 0500-0530+; 1730-2300*
 6250 N. KOREA KCBS; 2100-2300; 0900-1200+; this is Korean HS tx.
 5255 USA VoA; site in dispute; but noted last winter in Russian around 0430; this was not a receiver problem, not a feeder.
 6255 AUSTRIA Austrian Army; *0450-0830 f/o in NA; noted at least to 1645 in Europe.
 6255 PAKISTAN QTH? English around 1600-1630; then lang past 1800.
 6260 CHINA Tsinghai; CC HS 1200-1600*, //3950
 6265 UNID 1635 on Truk, possibly a Russian.
 6270 CHINA RP; EE to Eur 2030-2125.
 6280v INDONESIA Manokwari seems to have completely disappeared.
 6280 CHINA Singkiang, Urumchi; 1600-1635*, //4500; also around 1100.
 6290v CHINA R. Peking RR, varies 6285-6295.
 6290v N.KOREA Pyongyang HS 1; as early as 1930 sometimes, on Truk.
 6294-3/4 UNID in Korean around 2030, possibly // 6600v. Pyongyang? Hrd on Truk.
 6302 N.VIETNAM Tay Bac; VV *1000-1115*, *1200-1400*, //4750, not // 6376.
 6321 CHINA R.Peking operates here.
 6340 TURKEY Ankara Police Radio; hrd around 1800 on Truk; sked 1730a-1900*, acc to BADX.
 6345 CHINA RP HS 2; *1130+
 6350v CLANDESTINE "R.Free Russia"; *1300-2000*, //11485v.
 6376 VIETNAM Tay Bac; Vietnamese around 1030-1200. Noted on Truk recently // to 15015v(distinct from VoV-15007v)
 6383 MONGOLIA Ulan Bator Radio, HS II, around 1200.
 6400 CHINA Fukien Front Station; *1000- 1415a.
 6425v CLANDESTINE R. Free Tyrol; around 1130-1200.
 6430 CHINA R.Peking; Japanese 0940, //7480, etc.
 6440 CHINA RP, CC noted around 2015 on Truk.
 6500 CHINA Tsinghai presumed; Chinese dialects 1125-1500 +
 6520 N.GUINEA R. Madang, 2 x 3260, noted on Truk around 2000.
 6520 CHINA RP; operated here a while back & may still.
 6540 N.KOREA KCBS; *0900-1500* Japanese
 6560 CHINA RP; FF to Europe ends 2126.
 6570v CHINA RP RR around 1045+
 6580 N.KOREA KCBS; EE to Afr, 1810-2000, //9515.
 6599.7 N.KOREA Pyongyang; KK HS II 1215.
 6662T MALDIVES....might be stn here 1300-1500 several days, hrd on Truk. The fundamental being in the SWBC range would mean this would be counted as SWBC. (2 x 3331).
 6680 Sydney Volmet & Singapore AM utility stns operate here.
 6685 CHINA RP CC to Eur to 1825. Bundy has several times noted Moscow HS same fqy, apparently being broadcast by Peking, indicating QRM on relay fqy.
 6695 UNID Russian talk & pop mx, noted on Truk in July.
 6707 N.VIETNAM Viet-Bac; *1130-1500a; //4020v(very variable); clear VV IDs 1/2 hr.
 6765 CHINA Fukien Front Station; *1000-1115*

6790 CHINA Peking Taiwan Svc, 1000-1800
 6793v THAILAND? Thai language stn 1100-1400+.
 6810 CHINA RP Bahasa Malaysian svc 1300-1355.
 6840 CHINA operates here, //3970.
 6900 TURKEY VdMeteorology, Ankara; *0459-0600+; sked *0455-0800*, *0800-0940*,
 1200-1615, *1800-1930*.
 6937 CHINA Kurming; HS around 1200
 6955 CHINA RP Japanese *0930-1530*, //9965.
 6990v ALBANIA RP relay; nominal 7120 has been hrd here around 0100-0355.

This is really only a preliminary survey, rather than a fairly polished version. However, it should prove useful in the coming months, even though there will be many changes by the international broadcasters. A future survey, will, it is hoped give a better treatment of both the international broadcasters, and of the domestic services on this band.

This survey, and the surveys of 1605-4000 kHz and 4000-5700 kHz, should be used in conjunction with other references. Among the list of references which DXers have found to be useful are the World Radio TV Handbook, the Foreign Broadcast Information Service listed available from the US Gov't printing office, the Tentative High Frequency Broadcasting Schedule, published quarterly by the IFRB of the ITU. Also, of course, the monthly LOG REPORT section of FRENDEX.

This survey was compiled by Dan Ferguson. As usual, much of the credit goes to the clubs of which he is a member, and the bulletins he receives. These include NASWA (of course), NNRC, Speedx, ASWLC, all in NA. Also, the Australian Radio DX Club, the South African DX Club, the Cimbrer DX Club(Denmark), the Danish Shortwave Club International, Finlands DX Club International, British Association of DXers, the Union of Asian DXers, the World Radio Bulletin, SCDX. The clubs of which an editor is a member usually deserve the credit for an editors up-to-date knowledge of the bands. Whether he uses that knowledge is something else again. It is hoped that you will find reason to believe there was some knowledge of the bands evidenced herein.

Should you discover changes or errors, it would be much appreciated if you would call them to the attention of the compiler, address at head of the Listener's Notebook section. Your cooperation will help to insure the accuracy of the next 49 meter survey.

You will note in the LN section that we are offering a free copy of a brand new 60 meter survey. Only charge is postage. Send SASE to the address given in LN section. Comments on any of the surveys are welcome/desired. Without the help of DXers in the surveys, they simply could not be done. Remember, you may have the one piece of information that would fill in the gap of information of a station.

We certainly miss the excellent lay-out work done by Ralph Perry in previous issues. Ralph found it necessary to resign the SWC editorship due to time problems. The SWC will be under the editorship of Al Sizer beginning with the DECEMBER issue. Till then, material may be sent to NASWA, P.O. Box 8452, So. Charleston, W.Va. 25303. All unused material will be forwarded to Al. Al's address is

Al Sizer
 22 Country Way
 North Haven, Connecticut 06473
 U. S. A.

Be sure to support him with your contributions to the Shortwave Senter. We feel very fortunate to have Al take over the Shortwave Center, and certainly look forward to his efforts in that section. Welcome, Al!

PHENOMENON OF THE DARKNESS PATTERN EXPLAINED (Part VI) by Edward C. Shaw

This month, the sixth part in the series of example configurations will examine the path of darkness between Lexington, Kentucky and Brisbane, Queensland. The darkness time charts will become ever increasing in value to you as the Fall and Winter DX season approaches. Remember the cardinal points:

1. Low frequency transmissions will only propagate between two points in darkness.
2. Exact GMT for any longitude on the globe may be easily figured by adding 4 minutes of time for each degree West of 0° Greenwich, or subtracting the same amount for East of 0° Greenwich. This is the Sidereal Time difference*.
3. The accompanying chart tells when sunrise or sunset will occur (within a few minutes) in local time for most latitudes. Nearly exact estimates may be interpolated for latitudes between those listed.

RECEPTION OF TRANSMISSIONS BELOW 7,000 KHz

Lat. °	Reception unlikely after....					Reception unlikely before....			
	SUNRISE (Local Time)*					SUNSET (Local Time)*			
	10/28	11/7	11/17	11/27		10/28	11/7	11/17	11/27
60	0711	0736	0802	0826		1616	1550	1527	1509
58	0704	0727	0750	0811		1623	1600	1539	1523
56	0657	0719	0740	0759	N	1629	1608	1550	1536
54	0652	0711	0731	0749		1635	1615	1559	1546
52	0647	0705	0723	0739	O	1640	1622	1607	1556
50	0642	0659	0715	0731		1645	1628	1614	1604
45	0632	0646	0700	0713	R	1655	1641	1630	1622
40	0624	0635	0647	0658		1703	1652	1643	1637
35	0617	0626	0636	0646	T	1710	1701	1654	1649
30	0611	0618	0626	0635		1717	1709	1703	1700
20	0559	0604	0610	0616	H	1728	1723	1720	1710
10	0550	0552	0555	0559		1738	1735	1735	1736
0	0541	0540	0541	0544	---Equator---	1747	1747	1748	1751
10	0531	0528	0527	0528		1757	1759	1802	1807
20	0521	0516	0512	0511	S	1807.	1812	1817	1824
30	0509	0501	0455	0452		1819	1827	1835	1843
35	0502	0453	0445	0440	O	1826	1835	1845	1855
40	0455	0443	0433	0427		1834	1845	1857	1908
45	0446	0431	0420	0411	U	1843	1857	1911	1924
50	0435	0417	0403	0352	T	1854	1911	1928	1944

* Must add or subtract Sidereal Time difference to local times from chart.

EXAMPLE CONFIGURATIONS for November 7th between: Lexington, Ky: 38°N 84°W and Brisbane, Australia 27°S 153°E

- a. Lexington: 84°W x 4 mins equals 5 hrs 36 mins Sidereal Time difference more than 38°N local sunrise (0632) equals 1208 GMT
38°N local sunset (1655) equals 2231 GMT
- b. Brisbane: 153°E x 4 mins equals 10 hrs 12 mins Sidereal Time difference backwards of 27°S local sunrise (0505) equals 1853 GMT
27°S local sunset (1823) equals 0811 GMT

From the above we observe that VLM-4 (4920 KHz) may only be heard during the morning in the Bluegrass. At the time when VLM-4 begins broadcasting there will be an ever increasing daylight gap. But, when the sun sets in Brisbane at 0811 GMT, it is still very much dark in Lexington - and the darkness will remain for another four hours until 1208 GMT when the sun rises in Lexington. Good DX until next month. Then we will consider Middle East DX prospects in time for Ramadan. 73, Edward C. Shaw

QSL Report

NEW ADDRESS!!

Believe it or not, your editor is again on the move and is currently planning to return to Canada in early October for a period of approximately one year. In the interests of getting QSL REPORT out on time, and in order to ensure that no reports are omitted, I would be grateful if all members would kindly note the following address changes:

Until September 12: G. A. Calkin (For OCTOBER Frendx)
 Rio Balsas 35-702
 Colonia Cuauhtémoc
 México 5, D. F. MEXICO

After September 12: G. A. Calkin (For NOVEMBER Frendx)
 P. O. Box 1345 and all others after)
 Station "B"
 Ottawa, Ontario K1P 5R4, CANADA

SCOREBOARD

This month our spotlight falls on SOUTH AMERICA. We would request that all members keep their listings up to date and if your name does not appear, why not submit your totals? A reminder that HIC/VIC are Countries Heard and Verified while HIS/VIS are Stations Heard and Verified.

N°. Name/Location	HIC VIC	HIS VIS	SOUTH AMERICA		Prized QSL/Freq.
			HIC VIC		
1. Gerry L. Dexter, Wisc.	205 200	924 700	15 15		R. Quinta, Ec. 6635
2. Don Jensen, Wisc.	203 200	---	15 15		Falkland Is., 3958
3. Bob Padula, Australia	199 190	---	11 11		R. El Espectador
4. James W. Young, California	196 138	---	-- --		-----
5. Bill S. Sparks, California	194 190	--- 537	14 14		L/V de Galapagos
6. Marlin A. Field, Michigan	193 186	726 569	14 13		R. Altiplano 5045
7. Dan Henderson, Maryland	192 175	---	13 9		AVROS/Surinam
8. Edward Shaw, California	192 165	386 221	13 12		R. Litoral, 5025 kc
9. Alan H. Roth, Connecticut	191 171	535 408	14 13		AVROS, 15227 kHz
10. Alvin Sizer, Connecticut	190 174	637 225	14 13		Em. Paraguay 6015
11. Ernest S. Behr, Ontario	188 123	855 180	14 10		L/V de Galapagos
12. Dr. T. B. Williamson, Ontario	187 170	---	-- --		PZH5/Paramaribo
13. Marvin E. Robbins, Nebraska	187 156	741 385	-- --		-----
14. Jerry Berg, Massachusetts	176 164	---	-- --		-----
15. Ralph Perry, Illinois	176 157	---	-- --		R. Demerara, 3265
16. Hiroatsu Matsuura, Japan	174 162	---	12 11		ORTF/Cayenne, 3385
17. Gregg A. Calkin, Ontario	174 155	---	12 10		R. Santa Rosa/6045
18. Serge C.P. Neumann, Indiana	171 154	---	-- --		-----
19. Bill Flynn, California	--- 164	---	-- --		-----
20. Dan Ferguson, Florida	160 ---	---	12 7		-----
21. A. E. Martin, England	158 149	---	9 8		Radio Loreta, Peru
22. Craig Koukol, Illinois	158 130	--- 143	13 12		R. Encarnacion
23. Bruce W. Churchill, California	156 135	203 157	8 7		AVROS, Surinam
24. Terry Adkins, California	156 95	320 108	11 5		-----

25. Danny Jamison, Virginia	156	69	328	81	--	--	-----
26. Arthur Poulis, Massachusetts	154	113	---	---	11	5	R. Demerara, 3265
27. Kris Lemna, Indiana	153	116	---	---	---	---	-----
28. Jim Zabransky, Illinois	152	129	205	168	11	11	R. Aparecida, 9635
29. Bob Brode, California	151	94	391	122	---	---	-----
30. Del Hirst, Texas	150	104	341	108	12	9	R. Yaracuy, 4940
31. Mike Ryan, California	---	148	---	---	---	---	-----
32. Chris Lobbell, Massachusetts	148	138	256	183	12	11	Radio Eco, 5010 kc
33. Victor C. Jaar, P. Q.	146	3	---	---	---	---	AVROS, Paramaribo
34. Bill Martin, Delaware	145	86	---	---	9	5	R. Demerara, 5980
35. Steven P. d'Adolf, Mass.	143	113	173	135	6	5	R. El Espectador
36. Henry Michalenka, R. I.	140	118	228	135	11	11	R. Demerara, 3265
37. Steve Kamp, Texas/California	140	110	352	193	11	11	R. Centinela Sur
38. Al Reynolds, North Carolina	131	91	231	104	9	4	Radio Globe 11805
39. Richard Anderson, Illinois	130	115	---	160	11	6	R. Guatapurí
40. Errol Urbelis, New York	129	94	380	135	---	---	-----
41. Jerry M. Stuart, Oklahoma	128	105	200	185	6	2	R. Demerara, 5980
42. Bob Slowey, Illinois	127	110	---	---	---	---	-----
43. Tom Neely, Michigan	126	107	---	---	11	8	LOL/Argentina 15.0
44. Mike Watman, New Hampshire	126	101	179	131	11	10	R. Demerara, 3265
45. Edward Kusalik, Ontario	124	108	144	128	---	---	-----
46. Bill Eddings, Pennsylvania	122	103	168	151	13	7	Uruguay, 9620 kHz
47. Joseph R. Avery, N. C.	122	43	---	43	11	1	Action Radio, 3290
48. Paul Mayo, N. Y.	120	51	140	55	10	4	-----
49. David R. Alpert, Illinois	119	100	---	---	7	5	ORTF/Cayenne, 3385
50. Edward F. McElwain, Colorado	119	82	---	98	---	---	-----
51. Charles Conner, Louisiana	118	65	266	71	10	3	R. Santa Fé, 4965
52. Rick Charnea, Massachusetts	117	73	176	85	10	4	Ondas Portefías/Ven
53. Andrew Pappas, Illinois	116	98	---	---	---	---	-----
54. Richard L. Murphy, Texas	116	92	---	---	10	9	HC2AK, Ec. 4650 kc
55. Michael Seth, N. Y.	116	73	253	81	---	---	-----
56. Dean Bianco, New York	116	---	145	116	---	---	-----
57. Bill Schultz, Penna.	115	128	195	128	8	4	GBS/Georgetown
58. Don Johnson, California	115	53	177	78	8	3	-----
59. Mark Duba, Vermont	114	89	121	99	---	---	-----
60. Brent Hailpern, Colorado	114	88	225	125	10	8	R. El Espectador
61. George Schnabel, New York	113	90	---	---	8	7	L/Cruz del Sur/Bol
62. John Zaharek, Connecticut	112	103	197	145	9	7	R. Demerara, 3260
63. James S. Hurst, Maryland	112	95	161	132	10	8	ORTF/Cayenne 3385
64. Larry Marshall, California	111	87	145	102	8	6	L/Cruz del Sur,Bol
65. Thomas Henry, N. Y.	111	76	174	86	10	5	ORTF/Cayenne 3385
66. Angelo Gero, New York	111	40	---	46	8	1	HCJB/Ecuador 11745
67. Carroll R. Patterson, Georgia	110	97	240	131	10	8	OAX8K, R. Atlantida
68. Wesley Huggins, N. C.	110	90	230	160	15	10	Rdf Casa Ec., 4930
69. Greg Kelley, Virginia	110	68	130	75	---	---	-----
70. Mario A. Sala, California	109	65	152	71	9	5	Radio Rumbos, 9660
71. Richard Hegge, B.C.	108	91	151	108	9	5	R. Zaracuy, 3390
72. Gary S. Geltz, Penna.	107	79	142	90	---	---	LOL/Buenos Aires
73. John T. Soneff, La.	106	86	203	101	8	5	-----
74. Irwin Glasberg, P. Q.	105	92	169	114	7	5	R. Nacional, 6170
75. Jerry L. Green, Virginia	105	81	132	81	8	6	R. Soc de Bahía
76. Mark S. Konen, Wisc.	104	64	---	---	5	5	HCJB, Ecuador 11745
77. Alan Mayer, Illinois	104	58	---	69	7	2	R. Nac Brasilia
78. John W. Hoogerheide, Michigan	104	49	---	---	---	---	-----
79. John Fisher, Ontario	103	48	175	63	9	4	R. Pres. Elnacada
80. Dr. Price Kagay, California	102	88	---	---	7	5	RAE/Buenos Aires
81. Larry M. Abrahams, Mi.	101	61	---	---	8	3	ORTF/Cayenne 3385
82. Bob Kirkpatrick, B. C.	99	75	122	81	6	3	RAE/Argentina 11710
83. Barry Glassberg, New York	98	75	---	---	7	4	R. Demerara, 3365
84. Jean Burnell, P. Q.	95	76	157	105	7	5	R. Demerara, 5980
85. Harold Kalkstein, Pa.	95	55	130	65	7	3	WIBS/Grenada, W I
86. Kim Stenson, Vermont	94	68	128	77	8	7	R. Demerara, 3265
87. Harold Sellers, Ontario	93	73	172	100	6	6	R. Bandeirantes

88. Steven E. Sykes, Ohio	93	54	131	72	7	3	WIBS/Grenada 11970
89. Leon Segal, New York	93	54	---	---	---	---	---
90. Ron Bruns, Missouri	92	75	143	100	2	1	R. Valera, 4840 kHz
91. M. R. Leonhardt, Indiana	92	55	---	---	8	3	---
92. Dr. William G. Caldwell, Cal.	91	72	---	---	---	---	---
93. Mrs. Mildred Marshall, N. Dak.	90	81	124	111	7	5	R. Nacional, Caracas
94. Kent Leonard, Colorado	90	38	134	58	8	4	R. Barquisimeto
95. Neal A. Perdue, Tenn.	90	19	---	---	---	---	---
96. R. Stephen Dildine, Va.	89	64	---	---	5	5	YVTO, Venezuela 6.1
97. Thomas E. Jones, Minn.	88	59	137	74	7	1	---
98. Neal E. Kolb, Florida	88	54	103	59	8	3	R. Nac de Brasilia
99. Robert Messer, Illinois	87	63	---	92	7	4	R. Nacional, Lima
100. Eric Draut, Illinois	87	47	112	63	7	1	---
101. David Velle, Illinois	86	75	130	80	---	---	---
102. Tom Gavaras, Minnesota	86	67	108	76	10	4	LOL/Argentina 15000
103. David Baltimore, Pa.	86	62	92	64	4	1	---
104. Peter Taylor, Ontario	85	68	116	73	7	4	R. Juventud, 4900
105. John L. Kolb, California	85	76	95	88	---	---	---
106. Bob Kelleher, New York	83	48	137	70	7	3	Radio Super, 6065
107. Lawrence Scoville, New York	82	75	122	105	6	5	R. Nueva Granada
108. Audie Kaufman, Tenn.	82	71	125	98	5	4	R. Nacional Brasilia
109. John Mraz, Pennsylvania	82	61	111	71	5	3	R. Rumbos, 4970 kHz
110. Bill Coleman, N. C.	82	21	---	---	---	---	---
111. Bob E. Estand, Texas	81	79	100	79	5	5	R. del Pacifico
112. Kevin Klemen, Wisc.	81	29	116	32	4	1	---
113. Anthony Marks, Oregon	80	68	107	86	7	5	RCN/6162, Colombia
114. Mike Nikolich, Ill.	80	45	107	60	6	3	GBS/Georgetown 3290
115. George Morgenstern, Minn.	79	47	91	54	2	2	R. Pres. Balmaceda
116. Ivan Grishin, Jr.	78	51	---	---	4	1	HCJB, Ecuador 17880
117. D. J. Weber, Ohio	75	68	---	---	---	---	---
118. Jehn W. Banta, New York	75	63	90	72	6	2	R. Nac de Colombia
119. Ralph Richards, California	75	15	---	---	---	---	---
120. Andrew Rugg, Ontario	74	64	121	105	7	6	CE950, Chile, 9570
121. Les Gaynor, Michigan	74	62	127	76	---	---	---
122. Edward J. Pyatt, South Carolina	74	62	89	73	6	6	Radio Americas 9770
123. Larry Zamora, Texas	74	58	111	76	5	3	R. Libertador 3245
124. William White, New Jersey	74	51	108	60	6	5	R. Pres Balmaceda
125. Thomas O. Clark, Ohio	72	57	80	65	3	1	HCJB/Ecuador, 9750
126. Frank E. Aden, Idaho	72	55	---	---	---	---	---
127. Scott Moeller, Pennsylvania	72	41	85	47	4	1	HCJB/Ecuador 11915
128. Martin Imbert, Virginia	71	54	93	71	6	2	R. Nac Argentina
129. Robert E. Byers, Ontario	70	62	85	70	---	---	---
130. Brian Lym, California	70	47	112	49	7	4	R. del Pacifico
131. Rick Loustau, California	70	43	83	47	6	3	---
132. James Ducharme, Massachusetts	70	8	87	8	---	---	---
133. Mike Hardester, California	69	59	103	89	5	5	YVTO, 6100, Venez.
134. Corky Webb, Texas	67	62	90	84	3	2	R. Nacional Venez.
135. Jehn Walenter, Illinois	67	57	---	---	---	---	---
136. Terry R. Hicks, Florida	67	44	83	57	---	---	---
137. Jim Weber, California	66	45	71	47	---	---	---
138. Robert J. Keziomkowski, New York	65	37	73	44	8	2	R. Nac de Venez.
139. Leslie Geir, N. D.	65	37	65	37	5	1	HCJB/Ecuador 15115
140. Guenther Tumass, Penna.	65	32	13	3	5	1	---
141. William J. Plum, N. J.	64	50	106	83	5	3	Radio Santa Fé 4965
142. Richard L. Dushane, Mich.	64	49	88	60	9	4	R. Barquisimeto
143. Geoff Oates, B. C.	63	53	79	70	3	3	R. Continente 5030
144. Tom Blossom, Indiana	62	52	68	59	4	2	R. Nacional Brasilia
145. Don Adams, N. C.	60	50	63	53	2	2	R. Glebo, Brazil
146. Barry Thedford	60	25	---	---	---	---	---
147. Gary H. Tencre, Florida	59	35	75	44	7	3	L/V de Chile 11900
148. Mitchell Lewis, N. C.	58	22	73	22	3	1	HCJB/Ecuador 15115
149. Michael Wiseberg, Ontario	57	32	81	42	7	1	HCJB/Ecuador 11745
150. Bob Perits, New York	56	52	62	57	5	4	R. Barquisimeto 4990

151. Norman Starr, Ohio	54	19	--	--	--	--	-----
152. Steven Handler, Illinois	53	46	75	61	--	--	-----
153. Angelo Coppola, Italy	52	44	65	53	1	1	HCJB/Ecuador 11755
154. Robert Ingram, Ohio	52	14	59	17	4	0	-----
155. Johnie Gager, Idaho	51	35	57	38	3	1	HCJB/Ecuador 11745
156. Steven Fix, New York	50	31	88	--	--	--	-----
157. Dan Kening, Illinois	48	36	57	37	--	--	-----
158. Dave Megyesy, New Jersey	47	28	58	33	4	2	R. Barquisimeto 4990
159. Frank Orcutt, New York	46	31	53	39	5	3	-----
160. Andy Kerr, Oregon	44	38	63	59	3	2	R.A.E./B.A., 9690
161. Craig Wicks, Missouri	40	25	50	34	1	1	-----
162. Edward Fudman, Md.	40	28	42	30	--	--	-----
163. Joey Kennedy, La.	38	30	47	34	1	1	HCJB/Ecuador 11745
164. Vic Argabright, Cal.	38	23	42	23	3	2	R. Barquisimeto
165. David Stura, New Jersey	37	18	46	23	4	5	RHC, Habana, Cuba
166. Cal Cornils, California	36	35	48	45	1	1	-----
167. Paul D. Lynch, South Vietnam	36	14	40	15	1	--	-----
168. Charles Self III, Mn.	36	10	45	10	1	1	HCJB/Ecuador 9710
169. Mike Clyburn, Florida	35	29	41	36	3	3	R. Mineria, 11960
170. Tom Jeffrey, Oregon	34	17	34	17	2	1	HCJB/Ecuador 11745
171. Duane Gettings, Ohio	32	4	33	4	2	0	-----
172. Bruce Green, Ontario	27	16	32	18	--	--	-----

QSLs RECEIVED

A number of rare QSLs again this month. Of particular interest note those arrowed ().



ORTF - DJIBOUTI, AFARS AND ISSAS. PHOTO TAKEN BY THE NATIONAL ARMY'S HELICOPTER SERVICE.

AFARS AND ISSAS: ORTF, 4780, folder letter in French w/full data except freq. in 19 days; 2 IRCs; reply by air (Noroko)
ALBANIA: Radio Tirana, 6200, folder card in 104 days (Mayer) - 2 months registered (Helms)
ANGOLA: Em. Oficial, Luanda, 7245, card w/full data in 11 weeks; 1 IRC (Noroko)
ARGENTINA: RAE, 9690, green map card w/freq. & veri stant; 2 months for mint stamps. EE report (d'Adolf)
ASCENSION IS: BBC, 9510, card of Thames in 2 months w/site indicated. 2 IRCs (Window)
AUSTRALIA: Radio Australia, Shepparton, 11710, Opera House card in 14 days air for 1 IRC; full data (Dushane) 9580, 74 days (Mayer) 26 days (Hunt) VLW9/Ferth, 9610, blue ABC map card w/full data in 12 days (Mayer) 24 days for 2 IRCs (Wiseberg) 15425, 10 days (Webb) 9610, 1 month air (Window)
AUSTRIA: ORF, Vienna, 9770, full data card in 2 months for 2 IRCs. (Wiseberg)

BANGLADESH: R. Bangladesh, air mail w/full data in 2 wks with

a plain card. (Rodman) 3 weeks for 17935; full data (Norke)

BELGIUM: RTB, 9550, card, pennant and schedule in 9 days for 1 IRC (Bril) 37 days air for 2 IRCs. (Dushane) 2½ weeks for 1 IRC (L. Marshall) 78 days for no IRCs (Hunt)

➤ BOLIVIA: Radio Nueva América, 4755, letter, 1 month after f/up w/mint stamps. V/S: Raul Salmon, Gerente-Director (Sparks)

➤ Radio Altiplano, La Paz, 5045, Spanish card in 3 weeks for 2 IRCs on 3rd try. (Norke) Card featured below: (Ed.)



LA PAZ, BOLIVIA 12 de julio 1972.
Al Señor: ROBERT L. NORKE

Estimado amigo:

Recibida su apreciable comunicación de fecha 30/6/72... a la que respondemos sus referencias sobre nuestros programas y frecuencias están de acuerdo con las transmisiones de ALTIPLANO el 30/8/72... Agradecemos su atención y al ponernos a sus órdenes, le ofrecemos las expresiones de nuestra atenta consideración.

p.  RADIODIFUSORAS ALTIPLANO

DESDE LA CUBIERTA DEL MUNDO HASTA EL PUNTO PRECISO DE SU DIAL
ALTIPLANO EN SINTONIA 24 HORAS AL DIA

BRAZIL: Emisora Continental, 6195, letter and photo of studio building. V/S: Wacher Luz Menta, Director-Executivo, 1 month airmail. My 700th SWBC station QSLd (Dexter) Congrats OM! (Ed.)

Radio Brasil Central, 4995, letter in both Portuguese and English w/full details in 3 weeks airmail for English report. (Rodman)

Radio Farroupilha, 15335, letter, pic p/card from Ibanor Tartaretti, Diretor Geral. 18 days, airmail. (Dexter)

Radio Nacional de Brasilia, 15445, English letter veri in 17 days seemail; 2 IRC and Spanish report. V/S: L. Toledo (Dushane) 11720, letter in English from V/S: Luthero Toledo for English report. 1 IRC (Norke)

BULGARIA: Radio Sofia, 9700, "Sofia University" card in 60 days seemail. (Johnson) 56 days w/letter, rpt forms and under separate envelope: 2 books, 6 newspapers and 10 booklets all about Bulgaria (Austin) card in 99 days for 2 IRCs (Hunt)

BYELORUSSIAN SSR: Radio Minsk, 7420, card direct from Minsk in 5 months for EE report. QSL contains full details. (Roth)

CAMEROONS: Yaoundé, 4972.5, card w/full data and sked in 157 days (Michalenka)

CANADA: Radio Canada International, 11845, special Eclipse card for July 10th rpt in 10 days w/all details. (Sellers) 5970, black and orange eclipse route card w/all data for Special test. (Imbert) 9625, card of Maison de Radio-Canada in 18 days for no IRCs. (Matsuura) 17 days w/new blue sepia view of Montreal skyline and CBC Bldg (Webb) 15325, 2 weeks (Bril) 5970, card in 13 days (Rodman) 9625, 2 weeks (Megesy) 12 days sea (Avery)

CHU, Ottawa, 3330, card in 11 days and letter explaining my reception of their signals in the 49 meter band in mid-afternoon (Helms) CHU was relayed over the RCI test on the day of the eclipse (Ed.)

- CANADA:** CFRY, Toronto, 6070, card w/data except time; 12 days (Megyesy)
 CKZN, St. Johns, Nfld, 6160, full data card in 1 week for mint stamps.
 V/S: F. Helm (Wiseberg)
 CHNX, Halifax, 6130, no data card in 9 days w/stamps sent. (Megyesy) plain card w/frequency only; signed. (Window)
 CJCX, Sydney, 6010, green/white card w/date in 10 days. Mint stamps (Imbert)
- CANAL ZONE:** NBA/Balboa, 17697.5, form letter in 125 days seamm. V/S: Frank Knutsen
 RMC, USN (Schultz)
- CANARY ISLANDS:** Radio Nacional de España, Tenerife, 15365, card depicting xmtr site in 18 days air from Madrid for 2 IRCs. Canarias written in as site. (Dushane)
- CHINA:** Radio Peking, 9780 (via Albania?), colorful Yenan card, no info. 32 days air for no IRCs. (Window) 3 weeks air. (Guarducci) 4 months w/follow-up (Stone)
- CEYLON:** Radio Ceylon, Colombo, 15120, "Orchids of Ceylon" card w/full data by air in 7 weeks (Lobdell)
- COLOMBIA:** Em. Nueva Granada, 6160, personal letter in Spanish from Lucy Rodriguez, but no verie info. 10 days air for 2 IRCs (Flum) 3 weeks for 2 IRCs (Stone)
 Radio Mira, 6015, letter, airmail, 13 days after f/up. Mint stamps sent.
 V/S: Agapito Lecumberri (Sparks)
 Radio Nacional, thank-you card w/date and showing downtown Bogota in 6 months for 2 IRCs. (Stone)
 Radio Super, letter in Spanish, large pennant and stamps in 3 weeks for 1 IRC (Reeves) 6065, letter and white felt pennant; 5 months; mint stamps. V/S: Gustavo Rivera, Departamento Técnico. (Sparks)
- COSTA RICA:** T.I.P.C., San José, 9645, card in 3 weeks for 2 IRCs (Perdue) 32 days for an English report (L. Marshall) 25 days for English report and 1 IRC. (Mayer)
- CONGO REP:** ORTF, 15190, "Drawing of Natives" folder card, sked, 53 days seamm. 2 IRCs (Johnson) folder card; 2 IRCs (Reeves)
- CUBA:** Radio Habana, 11830, "multi-color" card w/full data and sked in 3 months surfacemall. 2 IRCs. (Johnson)
- CYPRUS:** BBC, 15420, Thames card in 1 month airmail for 2 IRCs (Dushane) 10 weeks for 2 IRCs. (L. Marshall)
- CZECHOSLOVAKIA:** Radio Prague, 9630, card via air in two months. Sked and DX Club info the following day. (Helms) 7345, picture post card w/all data in 53 days. No return postage. (Imbert) 61 days for 9540 kHz (Peters)
 OLB5 Time Signal, 3170, observatory drawing and black/white card; seamm for 2 IRCs. (Schultz)
- ECUADOR:** HCJB, Quito, 17885, cactus card w/full details and pennant in 30 days air for 2 IRCs. V/S: Roger Stubbe. (Mayer) 8 weeks seamm (Guarducci) 11745, 26 days airmail showing cactus plants on the Galapagos Islands (Austin) 15115, 1 month for 2 IRCs (Window)
- **La Voz de Valle**, 4835, letter and 3 post cards in 1 month on 2nd try. V/S: Gonzalo Morena Chavez, Director. Air for SASE (Field)
- EGYPTIAN ARAB REPUBLIC:** Radio Cairo, 9475, card showing the Nile bridge in Cairo; 93 days w/sked for 1 IRC (Austin) 4 weeks for no IRCs (Perdue) 48 days air air for mint stamps (Johnsen) 2 months seamm (Imbert)
- ENGLAND:** BBC, 6110, Thames River card in 6 weeks for no data. No return postage. (Imbert) 10 weeks (Guarducci) 42 days seamm w/sked and WRC info (Austin)
 VOA Woofferton, 7160, 30 years of Broadcasting card in 10 days. No return postage. (Dushane)
- **FIJI IS:** Radio Fiji, Suva, 3284, color "sailboat and beach" card w/freq., date and power from V/S: Paul B. Sloan, in 11 weeks for one dollar. (Howard)
- FINLAND:** Radio Finland, 9585, usual card in 19 days for 2 IRCs (Hunt) 20 days air for 1 IRC w/pennant and sked (Imbert) 24 days by air for 2 IRCs (Wiseberg)
- FRANCE:** ORTF is announcing a new address for reception reports: Emissions vers l'Outre-Mer, Piece 35-13, Maison de l'ORTF, 75-Paris 16^e, France (Magne)
- FRENCH GUIANA:** ORTF, Cayenne, 3385, French letter w/all data except time; also sked. For NASWA French report w/mint stamps in 14 days airmail. (Avery)

RCN

RADIO CADENA NACIONAL

EMISORA NUEVA GRANADA

BOGOTÁ, D. E. - CARRERA 6ª No. 35-29 - TELEFONOS: 32-32-31

S-0079

Bogotá, D.E.
Febrero 10. de 1972Señor
DILLARD STONE, Jr.
1306 West 11
Freeport, Texas 77541
E. U. A.

Apreciado señor :

En nuestro poder su atenta carta de Repórter de Sintonía del 22 de Enero del corriente año.-

Para nosotros es muy placentero saber que contamos con una extensa audiencia fuera de nuestro País, por lo cual sea ésta una invitación más a permanecer en nuestra sintonía.-

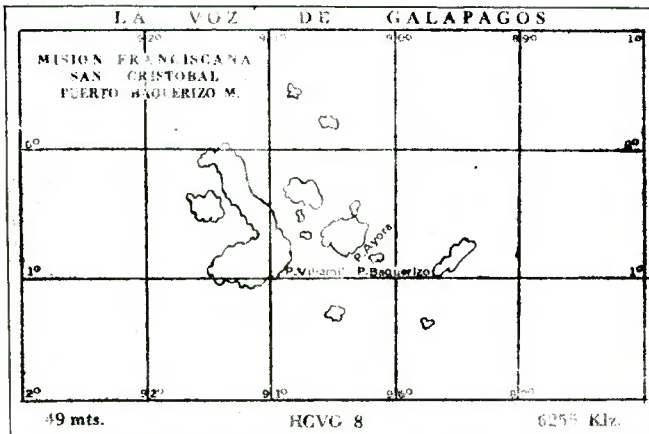
En nombre del personal que integra ésta Cadena, nos es grato expresar el agradecimiento, al mismo tiempo que le deseamos muchos éxitos.-

Atentamente :

RADIO CADENA NACIONAL S.A.
EMISORA NUEVA GRANADA
Lucy Rodríguez Cubillos
Secretaria GerenciaCC:Consecutivo
Medellín

/lucy

- GALAPAGOS IS:** La Voz de Galapagos, 6255, Isla San Cristobal, card w/outline of the islands in 121 days air for mint stamps and a report in Spanish. Full data card and friendly letter in English from V/S: Jorge Narvaez (Henderson)



- GABON:** Libreville, 4777, brown/yellow/white map of Africa card w/veri statement. 30 days airmail (Avery)
- GAMBIA:** Bathurst, 4820, mimeo letter in English w/full data in 5 weeks for 2 IRCs on 2nd try. (Nerko) 3 months for 3 IRCs (Conner) 22 days air w/a form letter giving info on the station. 4 IRCs (Michalenka) 3 months, air for Mint stamps (Sellers)
- GERMAN DEMOCRATIC REPUBLIC:** RBL, 9730, blue flag card w/full data received in 76 days for no return postage. (Mayer) 6080, 9 weeks for no return postage (L.Marshall) 9650, 62 days seammil. (Johnson) 54 days sea (Imbert)
- GERMAN FEDERAL REPUBLIC:** Suddentscher Rundfunk, Stuttgart, 6030, card in 170 days air for 2 IRCs (Henderson)
- GREECE:** N.H.B.I., Athens, 15345, card in 19 days for 2 IRCs and a report in English (L. Marshall)

- HAITI:** 4VEH, 11835, folder card in 77 days for 3 IRCs (Hunt) 3 months for 2 IRCs. V/S/ Mrs. Kent Ragsdale (Conner) 2 months 28 days with religious pamphlets. Airmail. (Avery)
- HAWAII:** WWVH, 15000, folder card in 2½ weeks. Returned my 21 cent airmail stamp. (Perdue)
- HONDURAS:** Radio América, 6050, form letter in 3 weeks on 5th try w/pennant. V/S: Rodrigo Wong Arevalo. Air for SASE (Field)
- HUNGARY:** Radio Budapest, 9833, "View of Budapest" card; pennant and sked. Personal letter. P/data. 51 days airmail. (Johnson) card in 1 month for 9833 (Mezgyesy) 11910 full data card in 2 months seammil. No IRCs. (Wicks)

- INDIA:** All India Radio, Delhi, 11775, "Regatta on Jhelum River" card w/full data. 1½ months air. V/S: Dr. R. D. Jain. Sked and personal letter also received. (Lobdell)
- IRAQ:** Radio Baghdad, 15400, bridge-map card in 6 weeks for 2 IRCs (Conner)
- ISRAEL:** IBA, 9625, one month airmail; no IRCs. Card, book on IBA and pamphlet on Israel's side of the Mid-east conflict. (Helms) 3 months w/sked (Stone) 4 weeks (Guarducci) 11810, no card in 64 days (Mayer)

- JAPAN:** Per Bob Bundy, NHK will not verify the Home Service SW relays as they say these are PTP stations. (Magne)
- Radio Japan, 17825, "Japanese Traditional Masks" card in 2 months air. No return postage. (Lobdell) 9505, 11 days (Bril) 2 weeks (Perdue) 8 days (Dushane)

KOREA (REP): Voice of Free Korea, Seoul, card by airmail in 4 weeks (Guarducci)
KUWAIT: Radio Kuwait, 15345, usual folder card in 2 months air for 1 IRC; all data, also many skeds and station info. (Sellers) Radio Kuwait, 15345, full data w/a small flag of Kuwait in 28 days airmail for no IRCs. V/S: Jawad Al-Mazeedi. Also sent program sked of English transmissions to Europe (Wiseberg) 4 weeks air for 2 IRCs (Perdue) 21605, map/national dress folder card and sked in 19 days air for 2 IRCs (Matsuura) 15345, folder card for 3 IRCs and report in English. 1½ months (L. Marshall)

LESOTHO: Radio Lesotho, 4800, flag card in 33 days airmail for 3 IRCs (Matsuura)

LIBERIA: VOA, Monrovia, card in 1 week from Rosemary Bailey (Stone)

LEBANON: Beirut, 9545, full veri card in 4 months registered seammil; 2 IRCs.

(Reeves)

LITHUANIAN SSR: Radio Moscow, Kaunas, 11870, card w/full data w/site given as Kaunas in 30 days for no IRCs. (L. Marshall) 69 days for 15210 (Wicks)

LUXEMBOURG: Radio Luxembourg, 6090, card after 3½ months for 1 IRC (Bril)

MALAGASY REPUBLIC: Radio Nederland, 15195, 25th Anniversary Happy Station card w/ full details in 11 days air for no return postage. (Mayer) 15260, card in 1½ months (Stone)

MALAYSIA: BBC/Tebrau, 11750, color Thames card in 6 weeks w/site typed in. 1 IRC.

(Blossom) 9515, flag card in 26 days air for 2 IRCs (Norke)

MEXICO: Radio México, XERMX, 15125, letter in Spanish w/questionnaire, Facts About Mexico, pennant; via registered airmail for English report and 2 ircs in 4 weeks.

(Rodman) 22 days by registered airmail for 2 IRCs. (Wiseberg)

XEWW, 15175, letter from V/S: Bernardo San Cristobal, Gerente General; full data except frequency; letter in 5 weeks for mint stamps; post cards and letter sent in Spanish. (L. Marshall)

MONACO: Trans-World Radio, Monte-Carlo, card and sked airmail in 3 weeks (Guarducci)

MOZAMBIQUE: Radio Clube de Moçambique, 11780, studio building card w/all details except time. 20 days air for 2 IRCs (Mayer)

NETHERLANDS ANTILLES: Trans-World Radio, 11815/15270, 2 cards and sked in 11 days for 2 IRCs (Bril) 11815, special card for "SPEEDX"; 17 weeks (Howard)

NEW BRITAIN: Radio Rabaul, 3385, folder sheet with no frequency; for 3 IRCs; 13 days airmail (Avery)

NEW GUINEA: Radio Madang, 3260, usual administration folder, seammil in 3 months (Dexter)

NEW ZEALAND: ZL-2, 9540, multicolored globe card in 3½ weeks; all details for 2 IRCs (Perdue). card in 3 weeks (Guarducci) 4 months for no return postage (Stone) 11780, globe card in 10 weeks airmail w/all data for 3 IRCs (Orcutt)

NICARAGUA: Radio Mar, 9581, letter in 2 weeks air from V/S: R. Perez U., who acknowledged my report as useful and appreciated. (Shaw)

Radiodifusora Nacional, 11875, Spanish letter without time or frequency. Also small pennant and program list. For mint stamps and Spanish report in 9 days. (Avery) 6 weeks for Spanish report and mint stamps. V/S: Douglas Amaya, Director Artistico. (Gonner) 11875, 2 months; total time was 6 months from original rpt. Mint stamps w/f/up. (L. Marshall)

NIGERIA: ECSBS, Enugu, 7235, letter and sked in 15 days from V/S: A. S. Alaribe, Sr. Radio Engineer for Dir-Gen. (Field)

NORWAY: Radio Norway, 15175, QSL showing Flydalsjuvet abyss in 12 days airmail for 2 IRCs w/sked and 76 page book about Norway (Austin) 6 weeks air (Helms) 16 days airmail; no IRCs. (Norke) 17825; no return postage (Dushane)

PAPUA: VLT4, Port Moresby, ABC map card of Papua w/full details received in 19 days airmail for 2 IRCs (Mayer) VLT9/9520, map card in 25 days for no IRCs (Hunt) 8 weeks airmail for 3 IRCs (Orcutt)

PHILIPPINES: Voice of the Philippines, 9582, received a QSL card and nice letter

OFFICE DE RADIODIFFUSION
TELEVISION FRANCAISE

Centre B.F.
Boîte Postale 309
97-4 St-DENIS DE LA REUNION

Saint-Denis, le 28 mars 1972

Monsieur Dan Hendersen
317 Brock Bridge Road
Laurel, Maryland 20810

ETATS UNIS (U.S.A.)

Monsieur,

Nous avons le plaisir de vous confirmer l'exactitude de votre rapport
d'écoute du 23 février 1972 effectué sur 2 446 KHz de : 02H 27 à 02H 33 GMT

Nos fréquences actuelles d'émission sont les suivantes :

HEURES G.M.T.	:	FREQUENCES	:	PUISSANCE
2H 30 à 18H 30	:	4 807 KHz	:	4 KW
"	:	2 446 KHz	:	4 KW
"	:	665 KHz	:	4 KW
"	:	602 KHz	:	8 KW

En vous souhaitant de bonnes réceptions, nous vous adressons nos
félicitations.

Recevez, Monsieur, nos salutations distinguées.

*Nous vous remercions pour le dossier qui nous a été remis
comme demandé. Nous espérons vous le faire très bientôt.*

Le Chef de Groupe Technique
Chef de l'Exploitation



J. SONNATG

from Ernesto G. Madrid, Manager, with full data. Also received a program schedule; sent an english report with mint stamps; took 30 days for a reply; they are looking for more reports from the USA (L. Marshall)

VOA/Poro-Tinang, 15155, 30 year card with all data except time; 1 week no return postage. V/S: Paulette Busi (Mayer)

AFRTS, Philippines, 15110, typical card in 4 days; hand printed; current schedule, airmail. (Webb)

POLAND: Polish Radio, 15120, 6 weeks air for "first" in a new series of seven map cards and personal letter from V/S: Jan Wierzbinski, Ed. in Chief, saying my IRCs not necessary. (Perdue) 1 month seammil for no IRCs. (Orcutt)

PORTUGAL: Radio Portugal, 11935, world discovery card in 17 days (Peters) 2 weeks, airmail (Guarducci) 11935, 21 days by air (Wiseberg)

Radio Stephanusbotschaft, 9670, full data card in German, by seammil in 2½ months from Germany for reception over RTE, Sines. Card also giving info on St. Stephans Association. 2 IRCs; Addr: Postfach 100 801, 5 Köln 1. (d'Adolf)

PORTUGUESE GUINEA: Emis. Oficial, 5041, green folder card in 7½ weeks for mint stamps and a Portuguese report. (Howard)

QATAR: QBS, Doha, 9570, letter w/mint stamps for a report in English from V/S: Mohmud Shadid. (Henderson)

DUBAI BROADCASTING STATION

6040 KHZ 10 KW

WE THANK YOU FOR YOUR RECEPTION REPORT
 DATED 11th March '72 RECEIVED ON March, 1972 AND
 CONFIRM THAT THE DETAILS GIVEN IN YOUR LETTER
 ARE CORRECT.

P. O. BOX 1695,
 U. A. E.
 DUBAI



ROMANIA: Radio Bucharest, 6150, full data card by air in 2 months and 17 days for 2 IRCs. Also sent program sked. (Wiseberg) 9 weeks air; no IRCs (Helms) 11940, 106 days for no return postage (Mayer) 3 months (Megyesy)

R.S.F.S.R. Radio Moscow, 12020/11900, orange card w/cyrillic writing air in 2 mos; for 2 IRCs. Returned 2 IRCs saying mailing service free. (Window) 51 days for no RP (Mayer) 2 months w/QSL and personal letter (Guarducci) 2 months (Megyesy)

Radio Moscow, 9680/11920, two cards giving site as Moscow. 5 weeks air (Plum)

Radio Moscow, Komsomolsk on Amur, 17860, card, sked and prog guide air in 15 days (Schultz)

Radio Moscow, Kursk, 11770, card in 2 months air (Plum) 35 days w/rp t form. Full data including site (Schultz)

RYUKYU IS: VOA/Okinawa, 7165, 30 Anniversary card with all data except time in 23 days for no return postage. (No Name) 11 days for 7165 (Dushane)

SEYCHELLES: FEBA, 15270, blue/white card w/all data in 22 days air. 3 IRCs (Imbert)

SIERRA LEONE: Freetown, 5980, aerogram with full data from Gilpin after several f/ups. (Howard)

SINGAPORE: Radio Singapore, 11940, standard card w/no data; received in 10 days for 3 IRCs and report in English. (L. Marshall)

- SOMALIA: Radie Mogadiscio, 6095, card of oil towers in 25 days air for 3 IRCs. (Matsuura)

SWAZILAND: Swazi Radio, 6155, letter from Jeannette Scholz in 3 weeks air. (Field)
20 days for 3 IRCs from V/S: Barbara Christensen (Sparks)

TAIWAN: VOFC, Taipei, 17780, blue/green card w/full data in 2 months (Lobdell)
17890, card in 28 days air (Johnson)

TANZANIA: R. Tanzania, 15435, card in 30 days air for mint stamps and 1 IRC; no return postage (Johnson)

UZBEK SSR: Radio Tashkent, 9600, card w/skcd in 9 weeks airmail. No IRCs. (Linsenmeyer)

VENEZUELA: YVTO Observatorio Cagigal, 6100, full data card in Spanish for 3 IRCs (Henderson) 6 months seammil for 3 IRCs; frequency only (Rosen) V/S: Osvaldo Ponce Pence, Capitan de Fragata (Reeves)

VIETNAM (SOUTH): VTVN, Radio Vietnam, Saigon, 11950, white card w/call letters, globe and all data in 28 days for no return postage or p/cards (Orcutt)

WINDWARD IS: Radio Grenada sent oversize green card indicating new name in 75 days for 2 IRCs. Reported 11970 kHz. (Sykes)

ZAIRE: Kinshasa, 15245, French letter says cards not available at moment. All data except time. For mint stamps and NASWA French report in 1 month 5 days; seammil. (Avery) 153 days from V/S: Nikuna Diavioka, Tech. Director (Schultz)

ZAMBIA: Radio Zambia, 3346, plain white card, air for 3 IRCs (Rosen)

And a special thanks to the following 49 members who made this month's production possible.

Steven d'Adolf, MA	Martin Imbert, VA	Scott Reeves, MD
Marty Austin, CT	Don C. Johnson, CA	Dennis Rodman, NY
Joseph Avery, NC	Albert Linsenmeyer, IL	Evan Rosen, NY
Gordy Brill, WI	Chris Lobdell, MA	Alan Roth, NY
John Campbell, TX	Larry Magne, PA	Bill Schultz, PA
Charles Conner, LA	Anthony Marks, OR	Harold Sellers, ONT
Gerry L. Dexter, WI	Larry Marshall, CA	Woody Seymour, NC
Eric Draut, IL	Hiroatsu Matsuura, JAPAN	Edward Shaw, VA
Richard Dushane, MI	Alan Mayer, IL	Bill Sparks, CA
Marlin A. Field, MI	Dave Megyesy, NJ	Dillard Stone, TX
Cire Guarducci, BC	Bob Norko, CT	Steven Sykes, OH
Harry Helas, NC	Frank Orcutt, CT	Peter Taylor, ONTARIO
Dan Henderson, MD	Bob Padula, AUSTRALIA	Corky Webb, TX
Ron Howard, MD	Carroll Patterson, GA	Glen Wicks, MI
Ken Hunt, CA	Neal Perdue, TN	Glenn Window, PQ
Gerald Donnelly, NC	Harold Peters, SC	Michael Wiseberg, ONT
	W. J. Pliv, NJ	

Just a reminder that the next SCOREBOARD will be in the December FRENDX, when the spotlight will fall upon NORTH AMERICA. AFRICA will be featured in March, 1973 and ASIA in June, 1973. Don't forget to keep your totals up to date!

And so, until next month, keep those reports coming in and please don't forget the address changes noted at the first of this month's section. Best

LISTENER'S

NOTEBOOK

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

FREE 60 METER BAND SURVEY Well, it's almost free. You have to pay for the postage. The 60 meter band survey which has been done from time to time has proved quite popular. A completely revised survey will be available about the middle of September, and to get a copy, you have only to send a SASE (self addressed stamped envelope) with 24 cents postage affixed, to the above address. This offer is to member and non-member alike! Those residing outside North America should send US\$1, or seven (7) IRCs, for airmail delivery of the survey....The survey will be mimeographed, double spaced, and on one side of the paper only. It will not appear in Frenxh, so if you want a copy, get your SASE here quickly!....With this survey, and the 49 meter survey which appears elsewhere in this issue of Frenxh, we now have available to members surveys of the 1605-7000 kHz range. (The 1605-4000 survey was done late spring, and will be updated shortly.) As in the past, with the 60 meter survey, these should prove invaluable for the serious DXer!

AREA get-together....Ken Lazear phones that there will be a get-together of DXers at his home the weekend of Sept 10. Those interested should write him at 87 North Gould Road, Columbus, Ohio, 43209. Since this will not arrive till almost that time, I would suggest that if you are interested, you call him at (614)231-8023. We had a rather hurried phone conversation, and I'm not sure if it was just Sept 10, or if also the 9th. So be sure & check with him first.

ANARC booklet- Speedx has issued an 8 page souvenir booklet commemorating the 72 ANARC meeting in Boston. 4 pages of photos, 4 pages of history of ANARC & report on convention. Send 25 cents (no stamps) to Speedx, Box 321, Santa Ana, CA 92702. Those outside NA can order for 2 IRCs.

MYSTERY DXER This is really not the place for it - it should be announced in the HQ section. But, while I think of it....Ed Shaw says nobody guessed Al Sizer was the mystery DXer. However, all who participated in the contest have been sent a consolation prize of a tape of 30 country IS/ID - at least those who wrote in. Guesses on the phone didn't count! (No, I didn't call him and start reading the mailing list! DF)

Radio del Pacifico, Peru, is scheduled on 4975 at 2100-0430, on 9675 at 1130-2130. English news 0200 Monday thru Friday, followed by "Chapel of the Air" and then the "Sower", to 0330, all in English. Billy Graham at 2100 Sunday. (Lorne G. Kliever, Chief Engineer, via Marlin Field)

ABU DHABI --- According to Farouk Jarrar, director of radio & TV for Ministry of Information and Tourism, Gov't of Abu Dhabi, the station operates on 9695 kHz in Arabic 0900-2000 daily, 120 kw. Antenna is a locally made folded dipole, but it is to be replaced soon by a "very wide band antenna made by Marconi Company. This antenna will be used for three bands, namely 6, 7 and 9 mh." He says return postage is not necessary in writing to the station. (Al Sizer)

MALAWI See August, LN-5. Lakeland Radio is on 5995 kHz, 1900-2100, leases facilities of R.Malawi. (Several sources.)

FRENX - THE SWBC JOURNAL!!! SUPPORT YOUR CLUB!!! TELL YOUR FRIENDS ABT FRENX!!!

AUSTRALIA cf July LN-1...Adelaide University station VLJUV is now in operation on 1630 kHz, Monday-Thursday at 1000-1230, with 300 watts power.(Arthur Cushen's DX Report on R.Nederland, via Michael Wiseberg)...Kieth Glover is hosting a new show Saturday at 1200 GMT called Listener's Club Forum. The first show was heard on the 12th of August. They invite listeners to send in short tapes with commentary to be played over the air. Tune in for more details. (Steve d'Adolf)

AUSTRIA ORF sked from 3 Sept...
 0000-0200 CA 15250 M
 0200-0400 E.SA 11725 M
 0400-2305+ Eur 6000 A
 0400-0600 SE Eur 7250 M
 0400-1200 W/N Afr, ME 6155 M
 0400-0600 SE Asia 17740 M
 0600-0800 W/N Afr, ME 7245 M
 0600-1000 ME 15410 M
 0600-0800 E.Asia 21720 M
 0800-1200 W/N Afr, ME 7245 M
 0800-1000 S.Afr 17795 M
 1000-1200 E. Eur 9770 M
 1000-1200 Australasia 21585 M
 1200-1400 S.Eur/N.Afr 11930 M
 1200-1600 W/N Afr, ME 9770 M
 1200-1400 E.Asia 11860 M
 1400-1600 W/N Afr, ME 11855 M
 1400-1600 SE Asia 17780 M
 1600-2200 W/N Afr, ME 6155 M
 1600-1800 S.Afr 17850 M
 1600-1800 ME 9745 M
 1800-2200 E.SA 15210 M
 1800-2000 E.Afr 15335 M
 1800-2000 ME 9765 M
 2000-2200 N.Eur 11790 M
 2000-2200 W/N Afr, ME 7180 M
 2300-0000 E.SA 9535 M
 2300-0400 ENA 6155 M
 2300-0400 ENA 9770 M

+) 0400-2120 M/Tu/W/F
 0400-2130 Th
 0400-2305 Sa
 0500-2120 Su

Stations: Moosbrunn, FS, 100 kw
 Aldrans, HS, 1 kw

(direct from ORF)

BURUNDI Sked from La Voix de la Revolution, from reverse of QSL, reads...
 3300 kHz, 25 kw, 0330-0600, 1600-2100.
 6140 kHz, 25 kw, 0600-1600.
 6140 kHz, 10 kw, 1600-2100.
 (Dan Jamison)

CAMBODIA Acc to World Wide DX Club, when communist troops attacked the capital, most parts of the radio station were destroyed and the director, his wife, and their son were stabbed with Bayonets. If they return to the air, I suggest you rpt again, as past reports undoubtedly are lost. (Steve d'Adolf)

GAMBIA Acc to the World Wide DX Club, Radio Gambia has extended its schedule to 0000 on 4820 kHz, said to be 10 kw. (Steve d'Adolf)

ITALY RAI is very interested in reception rpts at this time. In return it sends a QSL card, a pennant and sometimes artistic books. (World Wide DX Club, via Steve d'Adolf)

JAPAN According to the NHK DX Show, they will add a new frequency on the North and Latin America 0130-0230 svc. New freq is 21640 kHz. (Steve d'Adolf)

LEBANON Schedule from Radio Lebanon is.....
 0345-0815 on 5980 kHz These are the HS
 0825-1515 on 9545 kHz programs - all in
 1525-1815 on 5980 kHz Arabic.
 (BBC MS...Permission to reprint cannot be granted by NASWA.)

LIBERIA ELWA, external svc...
 0615-0730 EE, FF, Ewo, Fulani, Kanuri,
 (Sa to 0815 More, Twi; to W/C Afr, on 11950
 Su to 1100)

1215-1315 FF to W/C Afr on 11975
 (Sa to 1415 9555
 Su to 1345)

1615-1715 AA to ME 15095

1700-2100 EE, FF, Hausa, Ibo, 11940
 (Su from 1615) Yoruba to W/C Afr

1815-1945 FF, Bambara, Baoule, Fula,
 Fulani, Meninka; to W.Af 9640

2000-2300 AA, FF to N.Afr 15170

...Internal svc & neighboring countries....

M-F 0600-0815, 1530-2255 on 4770

Sa 0600-0915, 1530-2300 4770

Su 0630-2245 4770

in EE, Bete, Fula, Goura, Guerze, Kissi,
 Mende, Themme, Toma, Wobe, Yacouba.

.....Internal Svc...Liberian hinterland

M-F 0600-0845, 1630-2215 on 3227

Sa 0600-0845, 1730-2215 3227

Su 0600-1030, 1730-2245 3227

in AA, Bassa, Belle, Gbandi, Gio, Gissi,
 Gola, Greba, Kpelle, Krahn, Kru, Loma,
 Mano, Vai.

(BBC MS...NASWA cannot grant permission to reproduce.)...That string of languages causes one to appreciate a term like "vernaculars".

BRITISH HONDURAS Radio Belize has returned to 3300 kHz! Now noted nightly. (DF)

LOG REPORT

Larry Magne & Dan Henderson
 NASWA Log Report
 P.O. Box 2133
 Middle-City Station
 Philadelphia, PA 19103

DEADLINE: Here by 12 Sept.

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

A big welcome to co-editor Dan Henderson, whose masterful hand guides the upper half of Log Report starting this month.

In the process of dividing up the reports, I inadvertently lost a few credits, for which I apologize. Hopefully, such first-time "bugs" won't recur, but you can help by placing your initials after each logging in your reports. If you are a first-time reporter, just use your full three initials.

August is traditionally a slow month for DX, so much so that some bulletins skip the month entirely. However, the extraordinary LR reporting team and a record-breaking magnetic storm on 4-5 August have combined to produce numerous excellent loggings, plus one extraordinary logging from Earle Hall and Al Sizer -- the rare Falklands Islands Broadcasting Service on 3943v. So, without further ado...

120 Meter Band

- 2475 CHINA Hang-chou, Chekiang Province, 1035 CC //6000, mx (BBy)
2498 - 3199.9 kHz
 3010a UNID 0045, M w/FF pops, lost in CW QRM (AEM) Harmonic? (Ed)
3066 INDONESIA RRI, QTH unk, 0930-1000 Indo, talks, ID "RRI Studio ???", RRI IS, P (BBy)
 3075v INDONESIA Unid 1113 Indo, Indo mx & talks, C&W mx, strongest Indo in 3.0-3.2 MHz block, F (BBy) Same stn as your former 3080 and 3078, Bob? (Ed)

90 Meter Band

- 3205 UNID 1954-2002, Indian-like mx, AIR-Lucknow late?, G (BBy)
 3219 ESPIONAGE 2055 GG, IS, 4 electr notes, #'s by W, E (ESB)
 3220 UNID LA 0535-0658* SS, W ancing requests, Andean mx, ID "...Radio...Emisora al Servicio...transmite desde Mejol a Radio Lesm...", roughly (GS)
 3220 N GUINEA R Morobe 1015-1030 Pidgin, Poly mx, pops, F (HMA)
 3227 LIBERIA ELWA 2013 Vern, loc mx (RFB) t 0550 lang (AR)
 3229 FIJI R Fiji 0705 EE, nx, mx, talk, chime ID, P (DCJ)
3235 PAPUA R Milne Bay 0835 Pidgin, not moved to 3360 yet, P w/UTE QRM (BBy) 1010, Poly mx, P, still here as of 6 Aug (HMA) Both in reference to August LR-2 (Ed)
 3240 UNID, maybe Baghdad, 2015 AA, chants, Eastern mx, G (RFB)
 3245 VENEZ R Libertador 0339 SS, ads, IDs, mx, M&W ancrs, G (FH)
 3245 PAPUA R Kerema 1015-1030, Poly mx, pops, anns, F (HMA) 1948 Pidgin, pops, ID, G (BBy)
 3250 S AF Springbok 0200-0500 EE, nx, mx, ads //3997 (DCJ, FH, HS)
 3250 ESPIONAGE 2005 GG, #'s by W, "Achtung", also 2100, E (ESB)
 3260 CHINA Kuei-yang, Kweichow Province, 1415-1620* CC //1030 MW, drama, 1615 vocal "Int", then ID "Kweichou JKT", F (BBy)
 3260 N GUINEA R Madang 1945, Is mx, G (BBy) 0942 vern, nx, F (SK)
 3264 CONGO RTVC 2019 FF, ID, loc mx (RFB)
 3268t TIMOR Cf Aug LR-2. Victor G read of Lib Forces activity (BBy)

- 3285 S AF SABC 2022 EE, LM (RFB)
 3290 GUYANA Action R 0328-0443* EE, pops, bluegrass, blues, ID, s/off anns (PH,AAM,HS) 0900 EE, mx, IDs, anns, F (DCJ)
 3295 VENEZ R Trujillo nights SS, usual LA mx, G (AVS) Time? (Ed)
 3300 GRENADA 0200-0214* EE, BBC & loc nx, IDs, rel message, G (FH)
 3315 UNID 1845-2000+, Indian-like mx similar to 3205, Bhopal? (BBY)
 3316 SIERRA LEONE RSL *0615-0705 EE/lang, pops, Eveready ads(AR,AEM) That 0705 from AEM is tentative (Ed)
 3322.5 BOUGAINVILLE IS R Bougainville 1944, C&W mx, G (BBY) 0900 lang, mx, talk, IDs, loc mx, P (DCJ)
 3331 COMORO IS ORTF Moroni, 1640-1701 FF, talks & mx, "Comores" hrd, RTTY QRM, P, looking for Maldives (BBY) Good luck!
 3335 N GUINEA R Wewak 1000 lang, talks, mx, ID, F (DCJ)
 3336t SENEGAL Ziguinchor 2027 lang, talk by W, weak (RFB)
 3339 ZANZIBAR R Tanzania Zanzibar 0335-0400 Swahili, chants, Koran reading, W talk, ID 0400, UTE QRM, P (FH)
 3346 ZAMBIA R Zambia 0405 f/o EE, nx, ID, weak but readable (FH)
 3355 N CALEDONIA ORTF 0730 FF, talks //11710, 670 MW, several checks in recent days find 7170 & 9510 not in use (BBY)
 3355 UNID 1905-1955, mx sans anns, superstrong, not Noumea, Botswana?, E (BBY) What kind of mx? (Ed)
 3355.3t PERU R Luz, Lima, 0435-0530a* SS, "Pelaco" shirts ad, LA popular LM, anns over mx hard to understand, yodel song, s/off "until 7 in the morning", matches WRTH list s/on, F (X)
 3360 GUATEMALA LV de Nahuala 0330 SS, mx, P (RZ)
 3360 PAPUA R Milne Bay. Cf Aug LR-2, still on 3235, but 3360 s/b a good fq if & when it does move (BBY)
 3366 GHANA RG Comml Svc 0530-0600 EE, mx (DEM)
 3370 ESPIONAGE 2100 GG, IS, electr mx tune, 2110 #s by W, E (ESB)
 3375 BRAZIL R Olinda Pernambuco 0005, LA mx (AEM)
 3375 ANGOLA Em Oficial 2200-2400* PF, talk, sports cmty (RFB,AEM)
 3378 ECUADOR R Iris 0230 SS, LA mx, talk by M, F (DCJ)
 3380 GUATEMALA R Chortis 0330 SS, loc mx, PF (RZ)
 3381t MALAWI R Malawi 0413 EE, under R Iris, cmty (FH) Yes, in fact Iris above s/b 3381, unless it's moved (Ed)
 3385 BRAZIL RC Teresina 0147, variety of mx, ID 0222 (GLD) 0833 FP, cmty, mx, QRM, F (DJ)
 3385 VENEZ R Barcelona Musical 0348-0400* SS, ads, NA (FH)
 3385.2 FR GUIANA ORTF Cayenne 0115 FF, mx, anns, mix YV (FH)
 3390 ECUADOR R Zaracay 0415-0530 SS, LA LM, Andean mx, IDs (FH,HS,DCJ)
 3394.4 VENEZ R Universidad 0354-0359* SS, //96.5 MHz ancd, P (X)

3400 - 3899.9 kHz

- 3400t VENEZ R Espinal? 0402* SS, ID?, YV NA (FH) Univ 3394.4? (Ed)
 3406t DOM REP R Santiago 0005 SS, talk by 2 spkrs, noisy (AEM)
 3607.5 JAPAN NHK Hiroshima. Cf Aug LR-3. Is a "fixed" stn per letter from NHK, not intended for public listening and will not be verified (BBY) This seems as phoney as a \$3 bill. All these AM signals from an advanced country like Japan hardly seem like feeders; more likely is that by so stating they can "legally" use the UTE bands for SWBC b'casts to JJ territories, fishermen & embassies. I suspect same applies to Libya 8630. If this trick cathe on, verie chasers may have problems (Ed)
 3820 ESPIONAGE 2000 GG, IS, 4 electr notes, 2015 #s & "Achtung" by W, E (ESB)
 3893 ESPIONAGE 2130-2135+ GG, 8 gongs, #s & "Achtung" by W, E(ESB)

75 Meter Band

- 3900 CHINA Hai-la-erh, Inner Mongolia, 1325-1400 Mongolian //6080, talks, under Fukien Front, P (BBY)
 3905 INDIA AIR (Delhi per WRTH) 1907 EE, Indian mx (RFB)
 3930 CAPE VERDE IS R Barlavento 0010, pops (AEM)
 3942.5v FALKLAND IS FIBS 0057-0140+, older British C&W-type vocals, W w/positive ID 0130, "Falkland Islands Broadcast Service", TGs, etc, lost under AROs 0140, heard during the mag storm, but

- not noted since due to AROs on fq (FEH) 0105-0117 EE, 8/5, pops, W ancr, weak but AROs no problem for once due to mag storm (AVS) Congratulations! An outstanding catch and sterling proof that a "bad night" is really a chance to snare the elusive stations to the south. Congratulations are in order, too, to our good friend Victor Goonetilleke, who is the first Asian listener to receive a verification from FIBS. Victor notes the station drifts, and in fact Earle Hall actually measured it on 3943...is nom 3958, 500 watts (Ed)
- 3965 FRANCE ORTF 1830 FF, FG (ESB) In parts of southern France, this was the only clear ORTF signal daytime (Ed)
- 3975 ENGLAND BBC 0510 EE, nx, cmt, new lang (ex-AA/ME) (FH)
- 3985 SWITZ SBC 1800 GG, mx, nx, E (ESB)
- 3995 SOLOMON IS 1100-1117* EE, nx, GSTQ (JDT) Leaves carrier on AN w/test tone, apparently (BBy)
- 3995 ITALY RAI 1830 II, RTTY QRM, F (ESB)
- 3997 S AF Springbok 2045 EE/Afr, anns, "Bisto" ad (RFB) 0308 EE/Afr, TCs, mx, Wingfield cig ad, G (FH) 0510 EE, LM, ads, P (HS)
- 4000 - 4749.9 kHz
- 4003t CHINA Teng-k'ou, Inner Mongolia, 1240-1400, CC rev mx, UTE QRM, P (BBy) List here FBIS w/CC ID "Payennaoerh JKT" (Ed)
- 4010 ESPIONAGE DSD21, East Germany, 2000-2015+ GG, electr mx tune, ID "DSD21", 2015 #s by W, E (ESB)
- 4021v N VIETNAM Viet-Bac Province 1304 VV //6708, talks, F (BBy)
- 4030 USSR 1015, W ancr, vy weak, old Don Billingsley list showed Yakutsk on 4030 //4395, comment? (ECS) Without loc ID, all this guessing is so much Russian roulette, so to speak, with the HS outlets; the FS outlets are hopeless, due to widespread use of relays for all but a few (e.g., Tashkent) (Ed)
- 4040 ARMENIAN SSR R Erevan 1930-2000 RR, mx, F (ESB)
- 4055 USSR RM 2000* RR, F (ESB)
- 4059v PAKISTAN RP, Rawalpindi, 1620 EE, nx, loc mx, P (BBy) 4050-70v *0600-1445* *1530-1730* (BBC MS)
- 4060 N KOREA KCBS HS-1 1133 KK, KK mx //6600 etc, UTE QRM, P (BBy)
- 4079 UNID 1145-1400+ lang (RR, KK or Mongolian?), no IDs noted, brief M&W talks, brief mx interludes, UTE QRM (BBy)
- 4087 UNID 1250-1400+ Indo, talks, mx, 1259 ID "Inilah Radio...", seems non-RR1, UTE QRM, P (BBy) Lars, do you have this on your non-RR1 "list"? (Ed)
- 4110 CHINA Urumchi, Sinkiang Province, Px B, 1500 dialect (Kazakh? -Ed), ID "Sinkiang Radyo Stanski", //5440, 7050, march mx (BBy)
- 4248vNF LAOS Radio of the Patriotic Neutralist Forces 1105 & 1316-1405* Laotian //8600v, talks, Laotian mx, Laotian NA, UTE QRM, P 1105, F 1330, likely *1055-1205* & *1255-1405* (BBy)
- 4500 CHINA Urumchi, Sinkiang Province, 1559-1633* CC, pips, IDs, CC mx, "Singchiang JKT..." and off //6280, QRM VNG, P (BBy)
- 4563 CLANDESTINE (N KOREA) IDs as (roughly!) "Chung-e han min dong Fit-e tah ni dah" ("This is the Korea...") 1338-1401½ KK //1137 MW, 1137 excellent, IDs by M&W, KK mx, smooth propaganda by M&W, off w/some anthem, not too good here, is same stn rptd as UNID on 10498 July & Aug LR at *1000 w/9 echoing major chime notes, and preceded by espionage? px, 4563 rptd from Japan as *1200, is a new stn (BBy via LM) Bob made a superb tape of this on 1137 MW with perfect ID should anyone knowing KK be interested in listening to it (Ed)
- 4567 ESPIONAGE 2015 Czech or Polish, #s by M, E (ESB)
- 4600a SPAIN RNE 2300*, "The Continental", "Viva Franco, Ariba 'Spania'", G (AEM) Must be a harmonic (Ed)
- 4601v BOLIVIA Raif Mamore/R Guayaramerin 0200-0218 SS, LA songs, CW QRM, QRN, weak, anns (ESB, DJ) QTH a/k/a "Puerto Sucre" (Ed)
- 4635 TADZHIK SSR R Dushanbe 2030-2100, piano mx, RTTY QRM (ESB)
- 4656 AZERBAIJAN SSR R Baku 0115 RRM W ancr, RR mx (ECS) ID? (Ed)
- 4679 ECUADOR R Nac de Espejo 0227-0455 SS, Andean/LA mx, ads (ECS, DCJ, WJP)

- 4700t BOLIVIA R San Miguel 0010, LA mx, ads?, QRN (ECS)
 4707 ESPIONAGE 1840-1900* Czech or Polish, #s by M, E (ESB)
 4730v AZAD KASHMIR Azad Kashmir R 1259-1400* Urdu, ID 1259, loc mx,
 talk, nx 1330, F (HMA) *1157 (BBC MS)
- 4740vt ECUADOR R Nac Progreso 0010-0056 SS, M voice, little mx (ECS)
 4740 UNID 1540 under QRH, no details hrd, P (BBy)
 4749 UNID LA 0250-0305 SS, sports?, weak (JDT) Cf June LR-2, is
 likely "phantom" HJ unlist by Col Govt; tx spur? (Ed)
- 60 Meter Band
- 4750 CHINA Inner Mongolia 1230 CC //6840, under Tay Bac, P (BBy)
 Hai-la-erh list FBIS (Ed)
- 4755 COLOMBIA Em Nuevo Mundo 0245 SS, mx, ads, ID, G (DCJ) 0515 SS,
 CARACOL spots, mx, G (FH)
- 4755.6 BRAZIL Rdif do Maranhao 0000 PP, PP-pops, G (ECS) *0806 PP,
 s/on w/plucked orch strings, IDs, ancs 5 kw, s/on time and mx
 vary (e.g., was different 3 weeks ago), P (LM)
- 4759vNE CHINA Unid Provincial Station 1350-1735* CC, usual fare, 1402
 loc ID sounded "Tsinghai JKT" but not //other known Tsinghai
 fqs, sometimes carries RP HS-1 px, is a new outlet (BBy)
 Must be, unlist BBC MS and an "official source" & FBIS (Ed)
- 4760 VENEZ R Frontera 0130 SS, ID 0138, mx (BK) 1028 SS, ads, LA
 mx, ID, F (AAM)
- 4765 ECUADOR CRE 0505* SS, LA mx, NA, F (Bly)
- 4765v SUMATRA RRI Medan 2330 Indo, nx, "Stardust", FG (AEM)
- 4765 CONGO RTVC 1839 FF, loc mx, some anns (RFB)
- 4765.9t BRAZIL R Fiera de Santana 0845-0900 PP, Braz mx, singing ads,
 TCs, "Brazil" hrd, IDs unreadable, P (LM)
- 4774.4 DOM REP Onda Musical 2350, hilife mx, F (ECS) 0240-0400 SS,
 sports, ID/QTH, slo dance mx, LA LM, F (FH,RBO,DCJ)
- 4777.2v GABON RTVG 0510-0540 FF, loc rhythms, some vern (ECS,JDT,HS)
 4780 HONDURAS R Juticalpa 2345, M host, LA mx, anns, E (ECS)
- 4780 VENEZ LV de Carabobo 0130-0209 SS, IDs, LA mx, US mx, PF (BK,AAM)
- 4780 AFARS & ISSAS Cf Aug LR-4. 0530 ID, G, QSLed (SK) 0530 GMT =
 8:30 am Afars & Issas local time; majority of path in daylight (Ed)
- 4784.8 BRAZIL Unid (Indoamericana/Caiari list) 0900-1005 PP, Pilo
 Nacional transistor radio battery ads, Braz mx, catchy organ
 interlude mx, no definite ID, but "Caiari" possibly hrd (LM)
- 4784.8 PERU R Atlantida 0409-0502* SS, LA mx, US mx, abrupt off (JDT)
- 4785 PERU R Horizonte, Huanuco, 0430, clear ID (GS) Where was At-
 lantida? Is one relaying the other?? (Ed)
- 4785 CHINA K'un-ming, Yunnan Province, 1725-1735* CC, CC mx, 1729
 vocal "Int", ID, //6936v, UTE QRH, P (BBy)
- 4785 AZERBAIJAN SSR R Baku 1900-1930 RR, nx, loc mx (ESB)
- 4794.8vt BRAZIL R Congonhas 0902-0930 PP, M ancr, Braz rhythms, no read-
 able IDs, overmod, assume not Tabaraja due to fade, F (X)
- 4795 ECUADOR LV de los Caras 0350-0425 SS, ID (JDT) 0427-0520* (MAF)
- 4795 UNID 1326 KK, UTE QRH (BBy) //4825 Moscow? (Ed)
- 4800 UNID LA 0405 SS, after YV off, not Lesotho, Andean mx (FH) R
 Nueva America, Bolivia, here now (BADX)
- 4800 LESOTHO RL 0430-0515 EE/lang, pops, BBC nx, loc nx (ESB,FH,DCJ)
- 4805.7 BRAZIL R por um Mundo Melhor 0012-0025 PP, ID "Rdif...Melhor,
 MUNDO!", also "Emisora" hrd, no sign of Amazonas, P (LM)
- 4806.2t BRAZIL Rdif do Amazonas, Manaus, 2310 PP, nx, F (ECS) 0930-
 0940 PP, echo IDs, F (X)
- 4807v ECUADOR R Popular 0412-0445 SS, IDs, mid-road mx (JDT,AR)
- 4810 VENEZ R Popular 0255-0330 SS, IDs, G (BK,DCJ) 1024, bank ad(AAM)
- 4814.2 BRAZIL Unid 0822-0905 f/o PP, flute jazz vocals, M&W ancrs (2),
 echo anns, useless by 0845, Iracema, Fortaleza, Petropolis, &
 Cruzeiro do Sul all list, P (LM)
- 4814.8RFECUADOR R Canal Manabita 0310-0720 SS ex-4810, short speeches,
 Cuban-style pops, few ads, IDs, TCs, FG (JDT,FH,GS,RBO,DJ,X)
- 4815v PAKISTAN RP, Quetta (QTH per Victor G) 1745-1800+, P (BBy)
- 4819 ECUADOR R Paz y Bien 0435 SS, Andean mx, Cantinflas ad, F (FH)
- 4820 HONDURAS HRVC 0355-0432* EE, rel px, F (MI,DCJ,AEM,FH)

- 4820t INDIA AIR Calcutta 1900 Hindi?, Koran chants, W ancr, FP (AEM)
 4820 GAMBIA RG 0630 EE, chants, BBC nx, nat nx, F (MI)
 4825 USSR RM 1900 Serbo & Slovene to 2130, vx strong (ESB)
 4831 THAILAND R Thailand 1450 Thai //6070, drama, het, G (BBY)
 4832 COSTA RICA R Capital 0000-0450 SS, basketball, IDs, LA mx, pops, FG (DEM,DCJ,BK,BLy,HS,GS,AEM)
 4833.5t CHINA Shen-yang, Liaoning Province, 1407-1515* CC, no ID (BBY)
 4835 SARAWAK RMS-Kuching 1300 Malay, Indo mx, F (LKM)
 4840 VENEZ R Valera 0100 SS, IDs, FG (DCJ) 0400* SS, ID, NA (DJ)
 4845 BOLIVIA R Fides, La Paz, 0050 SS, ID, LM, F (AVS)
 4845 MALAYA RM-Penang 1400 lang, talk, nx by W, F (Bly)
 4845 BOTSWANA R Botswana 0435, LL, P (FH)
 4850 MAURITANIA RNM 2055, Koran chants, CW QRM, clear periods (AEM)
 4855.2t BRAZIL Rdif de Taubate 0920-0926 PP, Braz mx, RTTY, P (LM)
 4860 VENEZ R Maracaibo 0310-0404* SS, LA mx, IDs, NA, FG (FH,BLy)
 4860 USSR Orenburg list 2000 RR //4920, RR mx (ESB) Rptd by a European in DSOCI as ancing QTH Leningrad (Ed)
 4864 BRUNEI R Brunei 1345, down l & hetting Lan-chou (below) (BBY)
 4865 BRAZIL RC do Para 0310 PP, soccer, rapid cnty, F (FH)
 4865 CHINA Lan-chou, Kansu Province, 1345 //7324, rev opera, F (BBY)
 4865 AZORES Em Regional, Ponta Delgada, 2247-57 PP, organ mx, jazz, NA ("A Portuguesa"), strong but QRN, G (RFB,AEM,ECS)
 4871 W IRIAN? RRI 1217-1230* Indo, IDs as "Bandung", altho Sorong list WRTH, IS per WRTH (RBO) Bob or Victor, do you know what gives here? This is not former Sorong s/off time, either (Ed)
 4873.9t BRAZIL R Jornal do Brasil 0930 PP, M w/nx?, P (LM)
 4875 BOLIVIA La Cruz del Sur 0130 EE, ID, rel px, marimbas, P (FH)
 4875 Cf. July LR-3. Nearest outlet is Port Moresby 4890; 4875 occupied by La Cruz del Sur! (BP) Tnx (Ed)
 4880 VENEZ R Universo 0400* SS, mx, IDs, TCs, P (Bly)
 4881v DOM REP R Comercial, Sto Domingo, 0444, ID (GS)
 4883 ESPIONAGE 1920-1930 in Eu, 0530 in NA, Czech or Polish, piano IS, #s by W, E in Germany (ESB)
 4885.2 Cf July LR-3. Pocos de Caldas has not moved, Rdif on 5015 (ESB)
 4886t PERU R Villarica 0400, fast ID when lost or off (GLD)
 4890 PERU R San Juan 0422 SS, mixture of LA & Andean mx, F (FH)
 4890 VENEZ Rdif Venez 0200-0305 SS, LA mx, IDs (DCJ,BK,BLy)
 4890 PAFUA ABC Port Moresby 0800 EE, ID, nx, F (LKM) 1045 EE, mx, ID, P (HS) 1100 EE (RZ) 1200 EE (AR) 1300-1400* EE, G (Bly)
 4895 BRAZIL R Bare *0900-1005, ads, pops, s/on usu 0900 (BP)
 4911 ECUADOR Em Gran Colombia 0308 SS, Andean mx, ID, F (FH)
 4911 ZAMBIA ZBS 0710 occ EE?, M under QRM, drums, chants, P (ECS)
 4914.5v BRAZIL Rdif Macapa 0814-0905 PP, IDs variously "Rdif Macapa", "Aqui R Sul Nosso Bronada...Brasilia...R Televisao do Brasil... Onda Media...14?? kHz...", "R Cordo Vival...Macapa", "The Pioneer Radio", Braz pops, local ads & tel #s, Macapa, 1460 (X)
 4915 GHANA Accra 2105 EE, nx, ID (AEM) list
 4916 COLOMBIA R Guatapuri 0530 SS, LA mx, IDs, G (DCJ) 1040 (AAM)
 4920 HONDURAS R Progreso 0125 SS, IDs, G (BK)
 4920 AUSTRALIA ABC Brisbane 1105-1115 EE, nx, mx, PF (AAM,RZ)
 4920 USSR RM 1800 Czech & 1900 GG w/RP&P, powerhouse in Eu (ESB)
 4923 ECUADOR R Quito 0420 SS, mx, ad, ID, G (FH)
 4930 DOM REP R Mil 0115-0500* & 1102 SS, pops (BK,DCJ,AR,BLy,AAM)
 Dominicans noted w/abbreviated skeds lately for unk reason (Ed)
 4938t YEMEN Sanaa 2110 AA, under Kiev, good clarity (AEM)
 4940 VENEZ R Yaracuy 0030-0400* SS, mx, IDs, G (BK,DCJ,BLy)
 4940 IVORY COAST Abidjan 2050, loc mx, under Moscow (AEM) 2254 FF, loc & EE pops (RFB)
 4945 BRAZIL R Ed de Braganca 0900 PP, W ancr, "Magalhaes" hrd, mix HJ, is here daily 0850-0910a, P (X)
 4945 COLOMBIA R Colosal 0320-0407 SS, pops, ads, G (Bly)
 4950 PAKISTAN RP, Peshawar (QTH per UADX) 1620 EE, ID, mx, P (BBY)
 4950t SARAWAK RMS 1105 EE, nx de Malaysia, no ID hrd, P (AR)
 4951NF CHINA Unid new regional outlet 1449, relay HS-1, F (BBY)
 4955 COLOMBIA R Nac 0400* SS, opera, G (DCJ) 0430 SS, clas mx (Bly)

- 4956.2 BRAZIL R Cultura (de Campos?) 0836-0910 FP, dull Braz pops, IDs simply as "R Cultura", anns, P (X)
- 4960 DOM REP R Antillas 0500* SS, mx, NA, FP (AR)
- 4960 VENEZ R Sucre 0300-0400* SS, LA mx, abrupt off (MAF,BLY)
- 4960 CHINA RP *2230 CC, IS (RFB)
- 4965 COLOMBIA R Santa Fe 0310-0600 SS, LA pops, IDs (BK,BLY,DCJ)
- 4970 VENEZ R Rumbos 0310-0355 SS, LA mx, nx, IDs, anns, F (LKM,HS)
- 4970 SABAH RMS-Kota Kinabalu EE //5980, net nx, loc nx, mx, P (DCJ)
- 4972 FR GUIANA ORTF, Cayenne, 2330 FF, LA & FF mx, more power? (ECS)
0050 FF, FF dance mx, "Ici Cayenne" //3385, G (FH) *0915 FF,
//3385.2, tone, IS, "Marseillaise", ID by W, FF pops, F (LM)
- 4975.3t BRAZIL R Timbira 0745-0805 FP, ID? "Todos los paisos...minutos para...Timbara...", Braz pops, long anns by M, QRM, P (LM)
- 4976 UGANDA R Uganda 2004 EE, nx (RFB) Nx s/b interesting! (Ed)
- 4980 VENEZ Ecos del Torbes 0110-0355* SS, LA mx, NA (EH,FH,DCJ,MAF)
- 4980 GHANA RG 2000 EE, nx (RFB)
- 4985 UNID 0515-0530 FP, presume Ecclesia, 1 gong 0530, G (GLD)
- 4990 VENEZ R Barquisimeto 0000-0400* & 1055 SS, pops, IDs, jingles, ads, G (AEM,RD,EH,DEM,MJK,HS,BLY,DCJ,DJM)
- 4990 CHINA Ch'ang-sha, Hunan Province, 1620* CC, "Int", ID "Hunan JKT", UTE QRM, P (BBy) JKT-Jenmin Kwangpo Tientai (Ed)
- 4992v PERU R Andina 0500, ID "R Andina para todo el pais", Andean mx (GS) Believe is back on 4995.7 now, tho (Ed)
- 4995v BRAZIL R Brasil Central 0100-0228 FP, LA mx, futebol, more power? (EH,AAM,FH) I doubt it, and ditto for 4972 above. Suspect recent condx just unusually good for that region (Ed)
- 5000 N VIETNAM VNUFK unheard for several weeks (BBy) Maybe the QRM drove them elsewhere...any luck in Japan? (Ed)
- 5000 USA WWV 0312 EE, solar activity (BCu) I should say! Boulder indicated A-index hit 195 during Aug 4-5 storm!!! (Ed)
- 5006 PERU R Jaen 0115 SS, Andean mx, anns, P (FH)
- 5010 DOM REP R Cristal 0100-0600 SS, LA mx, oldies (EH,GT,BK,DCJ)
- 5010 UNID 2310, CC-type chorals (AEM) R Singapore back here using old British Forces tx, sometimes //6000 (Victor G, Sri Lanka)
- 5010.2 UNID LA, maybe Eco de Peru, 0925-0950 SS, pops, DR gone, hyped M ancr, jingles, singing ads galore, Andean-type mx, P (LM)
- 5015 BRAZIL Rdf Pocos de Caldas 0000 PP, ID, mx, QRM (ESB)
- 5015 RSFSR (As) R Vladivostok 1115 RR, mx, ID "Govorit Vlad" (DJM)
- 5015v ESPIONAGE (E GERMAN) DSD 0010 GG, 5-group #s by W, F (LM)
- 5020 COLOMBIA Trans Caldas 0232-0240 SS, ID, P (FH,GT)
- 5020 CHINA Nan-ch'ang-hsien, Kiangsi Province, 1715-1734* CC, CC mx, "Int", ID "Kiangsi JKT", UTE QRM, F (BBy)
- 5030 VENEZ R Reloj Continente 0342-0430,*0957 SS, LA pops, IDs, TCs, F (BLY,DCJ,X & one credit lost, sorry)
- 5035 COLOMBIA R Caqueta 0055 SS, pops, LA mx, many IDs (EH)
- 5035 CENT AF REP Bangui 1941 FF, loc mx (RFB) 2230 ex-5038.5 (ECS)
- 5044.8 BOLIVIA R Altiplano 0130-0729 SS, pops, nx, IDs (FH,JDT,DJ,RBO)
- 5045a COOK IS Cf Aug LR-5. Rptd in June ADXN (BBy)
- 5045 UNID Cf Aug LR-5. Under Altiplano 0730-0810 PP?, weak (BBy)
- 5047 TOGO Rdf du Togo 2120-2303* FF, Af jazz (AEM,WJP) *0530 FF, NA, ID, nx, US jazz, nx (BLY,DCJ)
- 5050 VENEZ R Mundial 0315 SS, LA mx, IDs, W talk, FG (DCJ)
- 5057t CHINA Urumchi, Sinkiang Province, Mongolian-like talks, not //other Sinkiang fqs of 7050,5800,5440,4220,4110 or any other fqs (BBy)

5060 - 5949.9 kHz

- 5075v COLOMBIA R Sutatenza 0030-0330 SS, mx, nx, ID (BK,DEM,DCJ)
- 5095v COLOMBIA R Sutatenza 0100-0335 SS, nx, cmt, IDs (BK,HS & credit lost) 5095 not always //5075 (Ed)
- 5273 PARAGUAY R Nac 0015, pops & LA mx, FP (AEM)
- 5295 CHINA RP Mongolian HS *1200-1230* Mongolian, ID first in CC "Chungyang JKT", then Mong (roughly) "Hoomin Aratin Arajio Hoojihbun Yunhis Radyo", //local Inner Mongolian outlets presumably fed by 5295 (BBy) Seems like a new service (Ed)

- 5295NF CHINA RP 1900 Hausa ex-9480? (BBy)
 5441 CHINA Urunchi, Sinkiang Province, 1458 //4110,7050, cf 4110(BBy)
 5525RF CHINA China Press Agency, Peking, 1525-1710+ CC //16105 etc,
 dict nx, F (BBy)
 5545 CHINA RP 1325* Indo *1330 Thai //8240, 11980, 15080, 1190 MW,
 Indo is a new svc (BBy)
 5600 CHINA Fukien Front (2x2800) 1535, well heard, F (BBy)
 5810 ESPIONAGE 0150-0205 EE, W read 4-group #s, F (NK)
 5845v SUMATRA Cf April LR-5. RRI Pakanbaru 1050-1540* Indo, soft W
 talk, 1057 ID "RRI Pakanbaru", loc nx, ID, fq 5840-55v, F (BBy)
 5873.5 Cf July LR-4. Fq correct for La Cruz del Sur? (ESB)
 5875 HONDURAS LV de Honduras 1145, beer ads, 40 over, loud! (ECS)
 5930 USSR Arkhangel'sk list 1125, Balalaika mx, gymnastics, W
 ancr, weak w/QSB (ECS) Unlist Moscow, so prob some regional (Ed)
 5935 TIBET 1450-1545* CG/Tibetan, then *1600 Hindi FG relay, all //
 9490,4035 to 1755*, BBC MS notwithstanding, F (BBy)
 5935t LATVIAN SSR Riga 0445, it has to be, M ancr w/vocals & instr
 mx, unfamiliar melodies, Slav or similar lang to Finnish, not
 RR, P (ECS) Cf July LR-4. Why Riga? (ESB) List BBC MS, but ID
 would help a great deal since fqs are often shared (Ed)

49 Meter Band

- 5950 PERU R Arequipa 0127, "Coke" ads, Andean mx, IDs, G (JDT,AVS)
 5950v ALBANIA R Tirana 0315 AA //7065v, weak (MAF)
 5954v COSTA RICA R Casino 0440-0530+ EE, oldies, Carib mx, "Fanta"
 ads, ID "The Atlantic Coast BC Stn R Casino", G (JC,JA,JDT)
 5955 BRAZIL R Gazeta de Sao Paulo *0900 PP, partial ID, P (BBy)
 5955 GUATEMALA R Cultural 0300 EE, mx, rel px, F (DCJ)
 5955 FRANCE 1944-2005 FF, beyond WRTH list s/off of 2000, ID, F
 (BBy) WRTH Paris skeds have been off for years (Ed)
 5960NF FRANCE ORTF *0559 FF, "Ici Paris", G (DJ,ECS)
 5962 COLOMBIA LV de Bogota 0353-0400 SS, ID, F (LM) 0813, P (HS)
 5970 PERU R El Sol 0230-0335 SS, sports, ID, Andean mx, F (MAF,BLy)
 1015 SS, Andean mx, QRN, F (ECS)
 5977 UNID *0900-0925 PP?, talks, mx, tent ID "R Guaruja", F (BBy)
 5980 EL SALVADOR R Nac 0200 SS, LA pops (DCJ) 0430-0500*, NA (Bly)
 5980 SABAH RM-Kota Kinabalu 0910-0935 lang //4970, IDs, G (BBy)
 1330 EE, ancs lottery winners, P (DWW)
 5980 ROMANIA R Bucharest *0100 PP/LA, IS, P (HS)
 5980 UNID 1800-2000+ AA, F (BBy)
 5987.2 CELEBES RRI Manado 1025 lang, pops, Perry Como's "Ave Maria",
 gongs (ECS) 1240-1250, ID, LL (prob every Th), G (BBy)
 5990 BRAZIL R Min Educ & Cult 2330 PP, clas piano mx, P (AAM)
 5990 PHILIPPINES DZK-9, Quezon City, 1045 Tagalog, nx (BP)
 5995 AUSTRALIA RA 1026 EE, feature, F (HS)
 5995 MALI RM 2316 FF, pops, FF songs, loc mx, P (AAM)
 5995NF W GERMANY DW-W 2000 Greek ex-7150, nx (BP)
 5998.7 BRAZIL R Inconfidencia 2325-0104 PP, chimes ID, nx, mx, ads,
 sax lessons (AAM,EH,RZ,lost credit) 0855, ID, F (LM)
 6000 CHINA Hang-chou, Chekiang Province, 0930-1035 CC //2475,
 talks, 0935 ID "Chechiang JKT", P (BBy) This ought to be aud-
 ible NA after Inconfidencia weakens early AMS (Ed)
 6000 AUSTRIA ORF Aldrans 1730 GG, ann, polkas, G all day (ESB)
 6005 JAPAN NHK HS-1 0845 JJ, Fukuoka sked 0800-0840, Nagoya sked
 0840-1500 per July FRENDX, but no change noticed, P (BBy)
 6005 FIJI R Fiji-1 0950 langs, special fq for July (BP)
 6005 CANADA CFXC 0040,1005-1345,1640,1921 EE, pops (WT,MI,HS,EH,BCu)
 6006 COSTA RICA R Reloj 0100 SS //6075, opera, FG (BK) 1127, ID(AAM)
 6010 ECUADOR H0JB 0820 ERM sermon, G (HS) H0JB splattered all over
 19/25/31 meters during 4-5 Aug mag storm (AAM,LM)
 6010RF? VENEZ R Los Andes, Merida, from 7/17, *1024-1100, full ID (BP)
 6010 CANADA CJCX 1010 EE, C&W mx, ads, nx, FG (MI)
 6020 PERU R Victoria 0620-0700* SS, highbrow LM, ID "en Lima, R
 Victoria, OAX4X y OAX4Q", G (JC) 1037-1057 SS, LA mx, ID (JDT)

- 6020 NETHERLANDS RN 2340 SS, Bonaire Big Band mx (EH)
 6023 UNID 1035 lang, organ mx, rel format, QSB, weak (ECS)
 6025 BRAZIL Em Piratiningu 0848 PP, talks, "Brazil" hrd, F (DJ)
 6025 MALAYA RM-KL 1015 CG //7110, talks, QRM, P (BBy)
 6030 COLOMBIA R Nac 0310 SS, talk, G (RD)
 6034 CLANDESTINE (CHINA) VotThai People 1105-1145v* White Meo lang, talks, mx, IDs, anth, F //9423 (BBy) ID seems "Da-na, Fatan Tiao Fatu com Prethet Thai" per Bob's tape (Ed)
 6035 BRAZIL R Globo 0145 PP //11805, F (RZ)
 6037 COSTA RICA TIFG, San Jose, 1020 early on, special px for farmers and country folk 1115 unhrd before, hymns (BP)
 6045 BRAZIL RC Paranaense 2350-0030 PP, IDs, ads, mx (EH,RZ)
 6050 ECUADOR HCJB 0200 SS, rel mx, nx (EH)
 6051 HONDURAS R America 0555-0605 SS, LA mx, nx, IDs (JDT)
 6055 BRAZIL R Panamericana 0030 PP, sports, P (RZ)
 6055 JAPAN NSB 1045, LL, F (RZ)
 6060 CUBA RHC 2335-0128 SS/LA, LA mx, M&W ancrs, IDs (EH,HS)
 6060 SICILY RAI Caltanissetta *2205 IS, night px, mx, strong (ESB)
 6062 THAILAND Min of Education, Bangkok, 1040 Thai, nx on Sa when s/on is earlier, Mon-Fri is *1100, hets Habana 6060 (BP)
 6065 MALAYA BBC FES *1015, special fq, cricket (BP)
 6065 SPAIN RNE-N *0900 SS past 2000 Su only (ESB) To Eu (Ed)
 6065 UNID 1222 w/"Third Man Theme", weak, QRN (JDT) Must be Harry Lime's clandestine operation again, hi (Ed)
 6065.2 BRAZIL R Nac de Brasilia 0000 PP, talk, mx, G (ESB) 0640-0730 PP, soft LM, ID 0727, smashed by Super, P (LM)
 6065.6 COLOMBIA R Super 0630-0640 SS, many IDs, LA pops, het Brz (LM)
 6070t PERU Onda Popular 0620-0710 SS, LA pops, excited "Laterias" ads, mix CFRX, G (JC)
 6070 THAILAND RT Bangkok 1101-1558* Thai, IDs when RRI off, F (BBy)
 6070 W IRIAN RRI Djajapura to 1100*, off sans fanfare, 3905 continues, F (BBy)
 6070 CANADA CFRX, Toronto, 0230,0415,0700,1030,1910,2235,2330 EE, pops, nx, ads, sports (GW,DEM,JC,MI,CAW,BCu,EH,AAM)
 6075 COLOMBIA R Sutatenza 0038-0115 SS, ID, nx, PF (AAM,HS)
 6075 COSTA RICA R Reloj 0100 SS //6006, opera, AFRTS QRM (BK) No QRM from Sutatenza? (Ed)
 6080 CHINA Hai-la-erh, Inner Mongolia, 1335 Mongolian //3900, under Soviet HS, beware NHK KK 1130-1215, P (BBy)
 6082 PERU R Nac 0319-0415, "El Teatro Peruano", tangos (GS,MAF)
 6085 BRAZIL R Jornal do Comercio 0015 PP, P (RZ)
 6085 ESTONIAN SSR Cf July LR-5 & Aug LR-7. R Tallinn 2135-2200* Estonian, ID, talk, off w/chorus, Estonian Sa & Su (ESB)
 6090 ARGENTINA R Belgrano 0225-0230 SS, ID, pops, G (ARN)
 6090 LUX RL 2344-0200* GG/EE, pops, nx, IDs (AAM,MI,EH,DEM,CAW)
 6091RF CAMBODIA Rdif Nat Khmere 1045-1100, LL, also 1245-1305 FF, ID, FF mx, F, back after absence (BBy) 1245 EE, nx, into lang, P (DCJ) Assume EE before 1245, then FF?? (Ed)
 6095 BRAZIL Rdif de Sao Paulo 2359-0225 PP, many ads. Braz mx, sports, nx, //15155 (? Ed), F (AAM,RZ,EH,BLy) 15155 IDs as Tupi, Bob (Ed)
 6115 BRAZIL R Tupi 0045 PP, P (RZ) Maybe you meant that // to go here? (Ed)
 6115 COLOMBIA LV de Llano 0430 SS, LA mx, IDs, "Cuckoo clock" sounds, "TOLEPAR" net plugs, G (AR,PH) 0608-0640 (JDT)1010(ARN)
 6115 MEXICO XEUDS R Univ de Sonora 1745 SS, ID, clas mx, hrd all day (DJM) 0000 SS, mx, ID, G (BLY)
 6115 PERU R Union 0400 SS, IDs, LA mx, supermarket ads, F (BLY)
 6120 ARGENTINA R El Mundo 2355-0200 SS, IDs, mx (DJ,JDT,EH,RZ)
 6120 NICARAGUA R Atlantico 1001-1005 SS, IDs, loc mx (ARN)
 6125 BRAZIL R Nac, Sao Paulo, 2325-0040 PP, sports, IDs (JDT,RZ)
 6130 CANADA CHNX 0015-1035,2220 EE, pops (WJP,EH,DEM,JC,MI,WT)
 6133.5 UNID 1015, maybe an Indonesian, QRM VofK 6135, P (BBy)
 6135 TAHITI ORTF 0300 Tahitian, talk by M, mx, here few nites (BLY)
 6140 COLOMBIA R El Sol 0420-0500 SS, LA mx (CGu,AR) 1000 ID (HS)

- 6140 NETHERLANDS RN *0930-1050* EE, Happy Stn //6020, both G (ESB)
 6145 BRAZIL R Nac, Rio, 2355-0045 PP, anns, sports, ID. (JDT,RZ)
6150NF GALAPAGOS IS- LV de Galapagos now here per recent letter from
 stn; unhrd due to QRM; was QRming Colombian Navy Stn on ex-
 6255v (ESB) 'Tis true DX now (Ed)
- 6155 JAPAN FEN 1025 EE, ID, mx (ARN) 1500-1515 f/o EE, nx, ID (Bly)
 6155 SWAZILAND SR 0445-0510 EE/lang, mx, ads, IDs, P (DCJ,DWW)
 6155 AUSTRIA ORF 0030 EE, "Rpt fm Austria" (EH) Where was DW? (Ed)
6155NF W GERMANY DW-W *0400 GG (JDT) Ditto, ~~wipes out~~ ORF, Austria,
 DW is deliberately taking over established fqs of other stns
 like SBC (6120 & 9535), RNE (9520), Sofia (9700), Norway
 (11850), Moscow (15150) with its 500 kw tx. This is just the
 beginning, as 10 more 500 kw tx will be on the air soon! A
 mass protest s/b launched now (ESB) Amen! If this precedent is
 allowed to stand, it could lead to the absolute ruin of SWBC.
 DW tried this a year or two ago in covering Israel 9625 and
ceased after numerous letters of protest were received at W.
 German embassies. It worked before, it can work again. So
 if we can take 15 mins to QSL one stn, we can take that time to
 write the Embassy of the Federal Republic of Germany, Wash-
 ington, DC (or in your home country).
- 6160 COLOMBIA Em Nueva Grenada 0135 SS, ID (AAM) 0430-0500 SS,
 "RCN" IDs (HS) 1030 SS, LA mx, IDs (DCJ)
- 6160NF BELGIUM RTB 2200* Dutch, ID, NA, fq unused since 1968 (BP)
 6160 BULGARIA R Sofia 2000 AA & 2050 Greek //7670 in QRM (ESB)
 6160 CANADA CKZN, St John's, 2300 EE, nx, mx, P (MWI)
 6165 MEXICO LV de la Am Latina 0400-0500* SS, clutural px, ID,
 abrupt s/off, G (Bly)
- 6165 S VIETNAM VTN, Saigon, 1052-1100 VV, play, IS, pips, ID,
 march mx, nx, G (SK)
- 6170 VENEZ R Nac 0100 SS, LA mx, talk (EH)
 6176v BRAZIL R Guarani 0055 PP, LA mx, pops, P (RZ) 0720 on 6176.8,
 Braz pops, ads? (ECS)t0730-0901 on 6176.3, easy LA pops, mod
 only fair, P (IM)t0820 on 6176, M&W talks, G (DJ)
- 6180 GUATEMALA LV de Guat 0100 SS, oldies (EH) 0400, marimbas (Bly)
 6185 BRAZIL R Bandeirantes 0050 PP, P (RZ) 0845-0903, mx, IDs (JDT)
6190 W GERMANY Sender Freies Berlin via Bremen tx 0800-1650v GG,
 5 kw, then into R. Bremen px 1800+, tx breaks, QSLed (ESB)
 6195 BRAZIL Em Continental 0000-0050 PP, sports, IDs, PF (ESB,RZ)
 6198 PERU R Sudamerica 0316-0330, US stds on guit, ID 0329 (GLD)
- 6200 - 7099.9 kHz
- 6205t PERU LV de Huamanga 0230 SS, mx, anns, under SSB QRM (GT)
 6206 INT WATERS RNI 0015-0040 EE, pops (WWS,MWi,EH) 0441 EE,
 "Dick Morgan Show" (FH) 0515 EE, pops, GE (WJP)
- 6217vNF CHINA RP 1803 RR //7030v, F (BBy)
6224NF CLANDESTINE (NORTHERN IRELAND) Cf Aug QSL-3. Gnomes of Ulster,
 200 watts, will move here when chief Gnome returns from holi-
 day abroad, ex-6080, sked 2000-2200 irr, but possibly later as
 test to NA (likely with advance notice in FRENDX) (JC) 6224 is
 clear channel between 2 UTEs (on 6220 & 6230) (Ed)
- 6225 PIRATE (NETHERLANDS) World Music Radio *0900-1302* EE to 1200,
 then DD, Sun only, DX px 0930, also 1530-1552* test, ancs
 relay via R Northwest on 7.2 MHz, 25 watts, unhrd, F (ESB)
 1000 EE, EE pops, P (RFB)
- 6250 EQ GUINEA R Sta Isabel 2255*, Af rhythms, NA (ECS) *0500-0550
 SS, SS-Af pops to 0535, then exhortations to be good ctzns (JC)
- 6255 AUSTRIA Austrian Army*1100-1300* & *1600-2000v*, plus on Wed
 only *0600-0800* GG, code course, nx, mx (ESB) 6255.2t 0445
 Sat GG, pops & Tyrolean mx, M&W ancs, P (ECS) W anc? (Ed)
- 6257 PAKISTAN RP, Karachi, 1620* but also 1635-1805, EE/lang, nx,
 talks, mx, ID, P 1620, F 1800 (BBy)
- 6260 CHINA Hsi-ning, Tsinghai Province, 1555* CC //3950, "Int",
 ID "Tsinghai JKT", F (BBy)

- 6280 CHINA Urumchi, Sinkiang Province, 1600-1632* CC //4500 (BBy)
6285NF N VIETNAM Tay-Bac Province 1210 VV ex-6383 //4750, F (BBy)
6290 PIRATE R England 1200-1330 Suns, pops, ancs rpts to Steve.
 Allen, BIRM Dept A3, 23 Dorset Gardens, Brighton, Sussex
 BN21RL, England, will verify w/letter (AEM)
- 6340 TURKEY Ankara Polis R 1800-1900* Turkish, chants, nx, mx,
 seems more than 1 kw, G (ESB) Was 1 kw per BADX list (Ed)
- 6351v CLANDESTINE (W GERMANY) R Free Russia *1300-1800 RR, then
1800-1832 Baltic langs, then 1832-1900* RR, repeats 20 min RR
px from *1300, different IS 1800, fq 6329-58v but 2nd tx on
11410-84v always under jammers, 6351 clear until 1600 then
QRM jammers (ESB)
- 6351v CLANDESTINE (W GERMANY) R Omega *1900-2000* daily Estonian &
 other Baltic langs, *1000-1245* (times vary) Sun only RR to
 1030, then Ukrainian, then RR 1100, Estonian 1140, jammed, but
 11472v covered by jammers (ESB) Good show, Ernie! (Ed)
- 6355 ESPIONAGE 1000-1015* & 1300 GG, no IS, #s by W, E (ESB)
 6383t MONGOLIA R Ulan Bantor 1210*, RR-like mx, QRM, P (BBy)
 6405 ESPIONAGE 0955-1000 GG, 8-gong IS, #s by W, E (ESB)
 6425 ESPIONAGE 0930-0935 Czech or Polish, trumpet IS, #s by W (ESB)
 6453 ESPIONAGE 0930-1000 GG, 4 electr notes, #s by W, E (ESB)
 6580 N KOREA KOBS 1900 EE, nx (RFB)
 6630 UNID KK dictation, P (BBy) 1436. Espionage? Related to 4563/
 10498 clandestine stn? (Ed)
- 6810NF CHINA RP*1200-1255* Amoy/SEA, *1300-1355* Bahasa Malaysian,
 1400-1455 EE/SEA, *1500-1555* EE/S As, unlist BBC MS (BBy)
- 6900 TURKEY VoMeteorology 1930* TT, loc mx, CW QRM, P (RFB)
6935v CHINA K'un-ming, Yunnan Province, *1030 CC, ID "Yunnan JKT,
 Yunnan JKT", then instr version of "EIR", F (BBy) Also 1715-
 1735* CC, relaying RP HS-1, "Int", loc ID, F, also 1410 (BBy)
- 6955NF CHINA RP 1245 KK ex-JJ, F (BBy)
6975 CHINA Hu-ho-hao-t'e, Inner Mongolia, 1227-1238 Mongolian,
 talks, "Int" (orch version), IDs?, "Int" (HS vocal version),
 IDs not as in FBIS list, //4068, G (BBy) 6975,4068 & 1460 MW
 sometimes list relaying FS, but unlist 1230* Mong (BBC MS)
- 7007v CAMBODIA VotNUFK*1100 (BBy)
 7020a UNID 1143 lang, talk, CC-type opera, P, VNUFK? (HS) Likely
 Fukien Front 7025; try checking one of the many //s (Ed)
- 7030v CHINA RP 2205 RR, talk, CC mx, F (AVS)
7050 CHINA Urumchi, Sinkiang Province, 1508-1635* Mongolian-like
 lang, nx, //4110 but not //5800, F (BBy)
- 7065 UNID 1530 lang, talks, maybe Urdu or Hindi, F (BBy) Rawal-
 pindi drifting? If yes, is //9750,4058v,1150MW (Ed)
- 41 Meter Band
- 7110 MALAYA 1011, 1600 CC, RM-KL //6025, movie themes, ID, G (BBy)
 7121 UNID 1621-1632* lang, As mx, talks (Thai?), F (BBy)
 7140 AUSTRALIA RA 1200 EE, nx, E (JDT)
 7145 ETHIOPIA ETLF 0307 EE, US pops, ID, ancs is test xmission for
 ANC (JDT) VotAf Nat Congress (ANC) via R Tanzania now 0515-
 0530 Tu 6105 & 1945-2000 Su/M/W/F 15435 (BBC MS) 50 kw (WRTH)
- 7150 W GERMANY DW-W 2130-2310 //11865W,9510W, spl Olymp test to
 E Asia, E (BP)
- 7160t SARAWAK RM-Kuching 1036 CC //4950, P (BBy)
 7165 W IRIAN RRI Djajapura 2250-2259*, Indo mx, loc ID, off w/
 guitar solo, F (BBy) 1015-1030, loc mx, W ancr, F (ARN) I
 presume yours is Djajapura, Al, cf also May LR-6 (Ed) t 1030
 RRI, W ancr, low voice, As mx, CW QRM (ECS)
- 7165 RYUKU IS VoA 1045-1700 EE/As, IS, nx, mx (CW) Hrd throughout?
 Am listing a VoA outlet because VUNC is now gone (Ed)
- 7170 SINGAPORE RS 1045-1102 Tamil?, As vocals, IDs, pips, P (BBy)
 7176v S VIETNAM VTVN 1025-1102 VV //6165,9620,11950, F (BBy)
7180 SABAH Cf Aug LR-8. Unhrd on 7180 or 7240 since March 72, is
 on 5980 //4970, BP rptd 5980 replaced both 41MB fqs (BBy)

- 7180 UNID 2347-0000* lang, R Malaysia seemed mentioned, P (BBY)
 7190 CHINA RP HS-2 1155 //5075, etc, ID, F (BBY)
 7195 JAPAN NHK 1109-1115* VV, nx, NA, EE/JJ IDs, F (BBY)
 7210 SWITZ Red Cross ICRC 2300 & 0600 EE, P (JA)
 7214.7 BRUNEI 1150-1315 EE, As mx, ID, QRM, UN px (DCJ, BBY, DWW)
 7215 TAIWAN AFNT 1158 EE, ID "Amer Fcs R & TV Svc", QRM Brunei (BBY)
 7215 ANGOLA R Ecclesia 2310 PP, anncs, ballads //4985 where higher
 power now thot used (BP)t0620, Af rhythms & Donnie Ozman, F (DJ)
 7215 IVORY COAST RTVI 0620 //11920, rel px, Gospel mx, G (ECS)
 7216 BLACK CLANDESTINE (S VIETNAM) VotPatriotic Militiamen's Front
 1138-1155* new s/off time, VV, As mx, IDs, QRM, P (BBY) Bob
 just writes that stn is quite active, altho not hrd here (FA)
 lately, probably due to solar disturbances as of late (Ed)
 7220 SAUDI ARABIA 2400* AA, prayer call, NA, G (AVS)
 7225RF MORROCO Seba'a Aouin 2150 AA //6190SA, 6170T, G (AVS) I wonder
 if this is ex-Tangier 11735 or 9615? (Ed)
 7230 JAPAN NHK-1, Tokyo, JJ //6005, F (BBY)
 7233 MONACO TWR 1125-1140* GG, IS, G (ESB)
 7234.5t NIGERIA ECSBS, Enugu, 0550-0610 EE, Edu skit, nat nx 0600 (JC)
 7235 AUSTRALIA RA *1515 EE, IS 1512, P (RFB)
 7255 NIGERIA VoN 0610 EE, nx, loc mx, E (BE)
 7260NF E GERMANY RBI *2245 EE/Eu via new tx (BP) 500 kw, Nauen (BBCMS)
 7265t USSR RM-Krasnoyarsk (list) 1013 RR, talk, F (AVS) Baku &
 Erivan also list by BBC MS (Ed)
 7270 JAVA RRI Djakarta 2310-2320 Indo, SEA nx, ID, orch mx, F (BBY)
 7270 SARAWAK RM-Kuching 1238 Kayan/Kenyah list //4895, F (BBY)
 7275 NIGERIA NBC 0600-0610 EE/Af, nx, ID, mx (DEM, HS) Cf 7255, is
 it one or both fqs in use at this time? (Ed)
 7285 INDONESIA Unid 2318-0020* Indo, EE pops, ID, guit solo at s/
 off ("Love Ambon?"), G (BBY)
 7285NF MADAGASCAR RN-Talata *2255-0020* Indo, new svc, *0028-0100 EE,
 audible altho late am loc time (BP, BBY)
 7290 MONACO TWR 0720 EE, rel px, P (AVS)
 7295NF MadagascAR RN-Talata *2130-2250* EE/E Australia since 7/21, E,
 is new morn svc (BP) 15195 FB here, Talata must be UFB there (Ed)
 7295 SPAIN R Liberty 0200 RR, IS, badly jammed (AVS)

7300 - 9499.9 kHz

- 7310 LAOS VoPathet Lao 1303 //6199, under RR stn & jammers?, P (BBY)
 Fq used by black cland RotChiPeople's CP *1445-1453* (Ed)
 7324 CHINA Lan-chou, Kansu Province, 1305 CC //4865, talks, F (BBY)
 7335 CANADA CHU 0030, pips (GW) 1927 EE/FF, pips (BCu)
 7335.3 CLANDESTINE (BULGARIA) VoTruth *2030 & *0920 Greek, E (ESB)
 7370 USSR R/S Sov Byeloruss *2130 Byeloruss //7420, 5960, all G (ESB)
 7395 N VIETNAM VoV HS not noted here recently (BBY)
 7404.3 ESPIONAGE 1830 GG, electr mx, "Papa November", #s by W (ESB)
 7443 SWITZ HBX37 Prangins *1825-1840* RR, IS, ID, UN px, also EE,
 Fri only, G (ESB)
 7470 CAMBODIA SVN Liberation R *1328-1340 Khmer //10010, F (BBY)
 1430 EE //10010, nx & cmty, both F (DCJ)
 7480 CHINA RP 1345 JJ, no sign of Pathet Lao, E (BBY)
 7545vt N VIETNAM VoV 1135 Thai, talks, rev mx, old style jammer (HS)
 7660 UNID 1407-1408*, CC mx to abrupt off in mid-song, a Peking fq
 (BBY) Sounds like RP RR Svc, jammers nearby? (Ed)
 7817 UNID 1410-1500* Laotian, As mx, talks, beer or such ads?, IDs
 like "Thini, Stani Withayu Kachai Siang...", IS, Laotian NA,
 F (BBY) That is a standard ID; ads suggest this is not part of
 reported revised Laotian CIA radio clandestine operation (Ed)
 8240NF CHINA RP 1404 Thai, is active fq for FS 1000a-1430a, F (BBY)
 8600-9v LAOS Cf Aug LR-8. Both fqs are the same stn, RotPatriotic
 Neutralist Forces, in Lao, cf 4248v in this LR (BBY)
 8775 CHINA Pei-hai, Kwangsi Province, 1155 Tai? dialect, ID (rough-
 ly) "Puh-hoi Yi Dibobo Dienhot", "Int", then off (BBY)

That's it for this jam-packed issue. 73 & Best DX to all, Larry.

9171-9900 kHz

9171 CHINA RP, 0955 CC in Taiwan Svce, opera, P, // 15580, 15710, 11100(HS, (Ed).

9351 CHINA BPV, 1100, Morse signals hrd on the hr. 1 sec pips, G (ECS)

9410 ENGLAND BBC, 0330 EE play, G (BCV)

9422* CLANDESTINE(CHINA) V. of Thai People, *1100-1145* in white Meo, 1038 ID in Thai and Martial mx. (BBY, LM)

9430v CLANDESTINE(S. VIETNAM) V. of Patriot Militiamen's Front(de CIA), 1025-1050, no trace. (LM)

9475 EGYPT Cairo, 0230 EE, Am. pop mx G (EH, DEM, Bly, DCJ, DR), 0300 F(CAW, DW)

9490a TIBET Lhasa, 1035-1057 CC YL talks, QRM RP RR Svc, P(LM)

9499* UNID Possible LA, 0120-0310 SS propaganda, 6 pips, 0200. QRM Brazil, Dom. Rep, and Ute, P(LM)

9505a BRAZIL R. Record, 2350-0005 PP, Brazilian vocals under RTV Dom. P (LM)

9505 DOM REP RTVD, 2145 SS talks, P (WJP)

9505 GUATEMALA TGNB(R. Cultural), 0401 EE Rel. talk and mx (AAM)

9505 JAPAN NHK 0800 EE in Gen Svce, G (JH), 1000 G (HS), 1308, into JJ @ 1315, P (GB)

9510 ALGERIA RTVA, *0600, FF Pop Mx, theatre play G(LKM)

9510 W GERMANY DW Wertachtal, *2130, GG over RTVA and Barquisimeto G(FH), 2130-2310*, special Olympic test to E Asia, //11865, 7150 (BP)

9515NF S. AFRICA SABC, 0530 Afrikkans, ID 0600, QRM de BBC 0545-0600 (BP)

9520 NEW ZEALAND RNZ, 0730 EE mx, nx 0757*, G(DEM), 1058-1115, ID 1100, F (CRP, RZ), F, // 11705(SDA), "Now is the Hour" in EE to 1143*(AAM)

9520 W GERMANY DW, Wertachtal *0000 SS, QRM RNE, //9690, 11865 (ESB)

9520 FRANCE ORTF, 0600 FF mx, F (CG)

9520 PERU OAX4J, R. LaCronica, 0114, SS talk, ID, ads F(AAM), 0407-0417 Lively LA mx mixing with RNE, F(LM), 1145, SS mx, ads P(RZ)

9520 SPAIN RNE, Madrid, 0107 SS mx G(AAM), 2200* SS to LA, G(GT)

9520 PAPUA ABC, 0730 EE mx, F(WT, JH), 0900 EE mx, nx, stocks, Wx, F(DCJ)

9525 CUBA RHC 0730 EE mx, nx, propaganda G(JH)

9530 USSR RM 2355 EE ECNA Xmission G, surely not Frunze as per Aug 71 QSL(AVS)

9530 JAPAN NHK 1115 LL, into SS, F(CRP)

9535 SWITZERLAND SBC, 0130 EE nx, comment(DEM), 0245 EE tc, nx, G(Bly), 0350 nx P(CG) (Language? Ed).

9540 VENEZUELA R. Yaracuy, SS talk, LA mx, ID, G(DCJ) (Time? -ED)

9540 CZECH RP *0100 EE pgming, G(GB,CAW), 0130 EE nx, folk mx G(DEM), 0300 EE "News and Views" to 0355*(DN), 0555 EE G(CG)

9540 N ZEALAND RNZ 0630 EE mx, talk, BBC nx, // 6080, G(DCJ)

9545 W GERMANY DW, Koln 0059 GG ID, Jazz mx F(AAM), 0130 EE, G(WWS), 0450 EE comment, F(CG)

9545 GHANA RG, 2145 EE speech to Europe (GT), 2200 EE ID(GB), 2214* EE, G, // 15285 (DN)

9545 LEBANON RB, 0235 EE National Nx, F(DEM)

9550 BELGIUM RTB *2230 DD, E(WJP), *2305-2315* EE to Europe, G(DN), 0047-0058* EE mailbag, ID in FF and DD, G(AAM, GB, RD, WWS)

9555 USA VOA, Delano 0710 AA to Africa E(JH)

9560 SPAIN RNE 2155 IS, *2200 SS for CA, G(FH)

9570 ROMANIA RB, 0049 SS talks, gypsy mx, F(AAM), 0227* after EE/NA with mx, F(HS)

9570 AUSTRALIA RA, Melbourne, 0715 EE nx, G(JH)

9572v CHILE R.Portales, 0008 SS speech, G(IM), 1200 SS, organ mx F-P(RZ,DCJ)

9575 ITALY RAI 0041 II talks, G(AAM), 0105 EE nx, G(GB)

9579 UNID 1430* after talk in Asian lingo, anthem, P(ESB)

9580 AUSTRALIA RA, 1230 EE ID, talk, mx, G(RD)

9580 ENGLAND BBC 0430 EE nx, G(BCV)

9581a NICARAGUA R. Mar, 1300 SS ID, songs, YL anncr F(ESB), 1530 fadeout LA vocals, P(ECS)

9583 PHILLIPINES VOP, 1358* EE ID, mx, anthem (ESB), 1013 EE ID, G(ARN)

9590 CHILE R. Presidente Balmaceda, 0950 SS nx F(CG), 1150 SS mx P(RZ)

9595 JAPAN NSB 1050 LL, 1100 EE ID G(AR)

9599* BLACK CLANDESTINE(USSR) R. Sparks, *0945-0951* CC, F(LM)

9605 ECUADOR HCJB 0145-0230 Rel. mx(MJK) (Language?--Ed)

9610 AUSTRALIA VLW9, Perth, 1103 EE nx, G(CRP)
 9610 W GERMANY DW, Koln, 2300 SS ID, nx P(AAM)
 9610 ALGERIA RTVA, 2215 AA chants, //9660, F in Europe (ESB)
 9615 VATICAN VR, 0050 EE ID, Rel. mx, QRM RCI, F(MI)
 9615 USA WNYW *0129 SS/EE ID, G(AAM)
 9619v UNID 1345 PP annrcr, pop mx, past 1400, P(ESB)
 9620 YUGOSLAVIA RB, 2100 EE, F(HS), 2208 EE nx, F(GB, WT, DEM), G(RD).
 9620 W GERMANY DW, Koln, *2245 PP to Brazil, F, no sign of Abu Dubai(FH)
 9620 UNID 0805, SS M & W talk, mention R Nacional, P(NAP)
 9622z PERU R. Atlantida 0140-0430 SS futbol //4784%, QRM RCI, 0140P,
 0430F, (LM)
 9625 ISRAEL IBA .2035 EE nx, F(WT)
 9625 CANADA RCI 0713 EE to Ecuador, E (JM)
 9630 CZECH RP 0345 EE/NA mailbag F (HS)
 9635 COLOMBIA RNacional 0126 SS lecture F(AAM), 0200 SS nx, ID, F(EH)
 9640 MONACO TWR 0930 EE DX Pgm to 0945* G(ESB)
 9640 S KOREA VOFK 0900 EE nx G(DCJ), 1200 EE ID, nx, G(AR), P-F(WNS)
 9650 E GERMANY RBE 0330 EE nx, cmtry, mx, G(DCJ)
 9660 MALAYSIA RM 1445 EE soccer game G(Bly)
 9660 VENEZ YVLM, R. Rumbos 0103 SS ads, LA mx F(AAM), 0900 SS ID, LA
 mx F(DCJ)
 9660 SPAIN RNE 2200 SS pgm, QRM'd (ESB)
 9660 USSR RM, reported last month as RM-Minsk, Byelorussia. Veri rcvd
 2 Aug showing 9660 to NA as Ivano-Frankovsk, Ukraine (CRP)
 9665 MONACO TWR 1430 GG to 1445*, //7245(European logging) (ESB)
 9665 UKRAINE SSR Rkiev, *0328-0356* EE nx, mailbag //12000, 11900 G(GW,
 MWI), *0030-0100* EE, //12000, 11900, 15230 G(GW, HS)
 9670 JAPAN NHK *1430 Bengali with SEAsian Svc G(Bly)
 9670 PORTUGAL R. TransEurope 2000-2015 EE/FF own pgm, G, 2015-2100*
 IBRA pgm, G, *2130-2230* Scandavian/DD pgm by Port. Tourist Bureau
 G(ESB, SDA)
 9675 BRAZIL ZYT29 R. Diario da Manha, 1019 PP talks, comment. F(CRP)
 9675 PERU OAZ4L R. Del Pacifico SS talk, ID, mx, F(AAM)(time?--ED)
 9678 MONACO TWR 0925 Hungarian, 0940 Czech, G(European logging)(ESB)
 9680 AUSTRALIA VLH9, Melbourne, 1113 EE talk, F(AAM)
 9684v PERU R. Continente 0230-0606* SS ads, LA pops--ID @ s/off as "Aqui
 Radio Continente, Lima". F-P(LM)
 9685 BRAZIL ZYR227 R. Gazeta, 0050 PP ads, vocals and fast LA mx G(AAM)
 9690 ARGENTINA LRA32 RN, 0359* EE Argentine mx, F(AAM, MJK), 0600 EE nx,
 mx, talk, F(DCJ)
 9690 W GERMANY DW Wertachtal 0138 EE/NA cmtry G(HS), 2320 PP Special
 one-day test to LA, 0000-0130* SS E(BP)
 9695 BRAZIL ZYB22 R. RioMar 0058 PPIID, LA and Rock Mx G(AAM), 0140 G(EH)
 9700 BULGARIA RS 2134 EEnx, cmtry F(DN, GB, GT)
 9700 CANADA RCI, Northern Scvc, 0047 EE () (Those who don't identify items
 don't get credit--ED)
 9705 BRAZIL R. Maua 2125-2130 PP ID (ARN)
 9705 INDIA AIR 1300-1315 local language in Tibet Scvc F-P(ECS)
 9705 MEXICO XERMX 0037 SS mx F(AAM)
 9710 MAURITIUS MBC, Forest Side, 1240 Indian lingo, Asian/African mx,
 under RMalaysia, P(DH), 1300* P(HMa). OK DXers, here's your chance...
 (ED)
 9710 ECUADOR HCJB 0610 EE one time only here (RDB)
 9715 USA WNYW 0056 SS talk F-G(AAM)
 9715 NETH ANTILLES RN Bonaire Relay 0612 EE Happy Station E(JH)
 9720 E GERMANY RBE 0145* EE heavy QRM, P(EH)
 9725 ETHIOPIA ETLF 0330 Swahili G(WJP, CRP)
 9730 E GERMANY RBE 0113 EE ID, mx G(RD), 0250 EE propaganda G(GB)
 9735 W GERMANY DW 0050 GG, 0115 EE talks, nx F-E(EH, CG, RD), 0245-0250*
 EE Pops, F(GW)
 9735 ENGLAND BBC 0250 EE African Scvc F(?)
 9738vNF TAHITI ORTF, RT, 0305-0315 Tahitian, //11825, 15170 F(LM), 0625 FF
 opera F(BBy)
 9739 ETHIOPIA ETLF 0400 EE nx, mx, rel. pgm F-P (DCJ)
 9740NF AUSTRALIA RA, Shepparton 2250 EE Scvc to Asia, ex7280, E(BP)
 9745 BRAZIL ZYR67 R. Cultura, 0029 PP futbol G(AAM)

9745 ECUADOR HCJB 2125 SS ancmts F(GT)
 9745 USSR RM 0340 SS/LA M & W talks G(HS)
 9750 E GERMANY RBI 0120 EE nx G(DEM)
 9755 LIBERIA VOA Monrovia relay 0059 SS comtry to Brazil, SS ID, E(CW)
 9765 W GERMANY DW 0435 EE nx, mx, cmtry, ID (CAW), //9545/6075, E(DCJ),
 1920 Hausa into EE @ 1930 F(HS), 2147 EE talks till BBC IS @ *2155, F(RD)
 9765 ENGLAND BBC 0045 SS ancmnts, US Pops P(EH)
 9770 HAITI 4VEH 0033 EE Rel. talk, F(AAM), 1340 EE, Rel. Mx F(EH), 1900
 EE ID, rel. pgm (MAF)
 9770 AUSTRIA ORF 0125 EE talk, P(EH), 0140 EE ancmnts, P(DW), 0200 EE, G(DEM)
 9770 MORROCCO VOA Tangiers 0430-0500 EE Breakfast Show F(EH)
 9775 CHINA RP 0320-0335 EE nx, cmtry, G(NAP)
 9780 ALBANIA RP relay, 0155 EE talk, EE(BK)
 9805 EGYPT RC 2207-2225 EE nx, cmtry, mx, P(DN)
 9825 ENGLAND BBC 0335 AA nx to ME E(HS)
 9833 HUNGARY RB 0130 EE pops //6175, 6165 F(EH), 0400-0430 EE nx to NA
 (AS, BCv)
 9854 ENGLAND BBC, RC USB feeder 0035 mx F(HS)

10000-11700 kHz

10000 HAWAII WWVH 1113 EE YL time signal. G(BCv)
 10044v N VIETNAM VOV(HS2) 1100 mx interlude and YL annr (ECS,HS)(CC list
 BBC-MS-ED)
 10117 N VIETNAM VOV(HS1) 1045 VV to S Vietnam E(ECS,HS)
 10154% N VIETNAM VOV 1055 pgming(mountain languages-BBC-ms-ED)//7545,7080,
 4683--BBC-ms), Better than 10044 (ECS)
 10216v CLANDESTINE R.Liberation 1100 VV nx F(HS)
 10335 INDIA AIR Delhi 1556 EE nx (BBY)
 10400 UNID 1555* music abruptly off (BBY)
 10500a CHINA RP 1245-1255* EE/ECNA //11685 W(BBY)
 11415 CLANDESTINE R. Peyk-e-Iran, 1600 Persian, //11695, G from Europe(ESB)
 11506 CLANDESTINE R. Port. Livre, 1930 PP pgm, //15484, F(ESB)
 11630 EGYPT RC, 0200 FF nx G(BCv)
 11650v BANGLADESH RB, 1600 Bengali to 1705, 1715-1800* EE nx, mx, comtry
 E in Europe(ESB), F(DCJ), P(DW)
 11650 PAKISTAN RP 1700 Pakistani, EE anmts, testing, G(BBY)
 11672 PAKISTAN RP 1915-1945* Pakistani mx G(BK)
 11695 CLANDESTINE R. Peyk-e-Iran 1715 Azerbaijani nx G(BK)

25 Meter Band

11705 SWEDEN RS *0259 FF nx G(DJM), 0330 EE nx G(DCJ, DW, CG, JA, Bly, CAW)
 11705 N ZEALAND RNZ 0901 EE nx G(NAP), 1048 EE pop mx P-F(AAM)
 11705 VATICAN VR *2230-2245* EE rel. pgming TThSat only, P-F(WJP, NAP)
 11710 N CALEDONIA ORTF RN, 0600 FF mx, talk G(DCJ, NAP), 0815 FF, F(RZ),
 1056-1100* FF songs, F(AAM)
 11710 ARGENTINA RAE 2300-2345* EE, P(WJP) (Program?--ED)
 11715 SWITZERLAND SBC 0150 EE nx G(EH, HS, WT), 0230 SS G(DJM), 0350 II nx
 F(CG), *0430 EE nx, E(BCv, Bly, DCJ), 0702-0730* EE nx, F(NAP)
 11715NF ISRAEL IBA, *2035-2115* EE nx F(AAM, NAP)
 11725 VENEZ RNacional 0305 SS nx, mx F(JH)
 11725 VATICAN VR 0100 EE rel. pgming F(EH, DCJ)
 11725NF AUSTRALIA RA 1200 EE nx to SEAsia F(RZ)
 11730 NETHERLANDS RN, Lopik, 2136 EE nx, mx G(CAW)
 11730 NETH ANTILLES RN, Bonaire, 0200 EE nx E(BCv, HS)
 11730% UNID Asian 1115-1124* CC YL lecture, CC mx F(IM)
 11737 CHINA cf Aug LR- Fukien Front was logged here. RRI Djajapura was
 here one day and Fukien Front not heard(BBY)
 11740 VATICAN VR 2048 EE nx F(AAM)
 11745 ECUADOR HCJB 0430 EE rel. pgming G(EH), 0450 EE mailbag G(BCv)
 11750 ENGLAND BBC 0230 EE talk G(BCv)
 11760 CUBA RHC 0328-0330* FF talk G(HS), 0342 EE nx, G(CAW)
 11760 ISRAEL IBA 2045 EE pgming G, //9625, 9009, 6170 (JA)
 11770 UNID 1647-1700* GG talk(JDT)(Could be NF for RM/Erevan, //15405,
 12000, 9710, 9580--ED)
 11770 MEXICO RM 1500 SS mx, talk, G(DCJ)

- 11775 SPAIN RNE 2225 SS mx G(GW)
 11775 INDIA AIR 1055 EE nx, mx P(RZ)
 11780 RUMANIA RB, 1945 EE talk, het QRM P(GW)
 11780 MOCAMBIQUE RCM, 1300 EE and Afrikkans, mx ads P (DCJ)
 11785 NETH ANTILLES TWR 0325 SS rel. talk, F(HS)
 11785 TAHITI ORTF, RT, 0715 FF nx, talk, IS (NAP)
 11785 W GERMANY DW *0600 EE nx to Africa (JDT)
 11790 LITHUANIAN SSR R Vilnius 2231 EE ID and nx, F(AAM)
 11795 ETHIOPIA ETLF 0324 FF songs F(HS)
 11800 CANARY IS RNE 0322 SS mx F(HS), 1950 SS ID F(EH), 2137 SS ID G//15365 (NAP)
 11800v SRI LANKA Ceylon BC 1045 Hindi, native songs, ID, F(HS), 1230 mx(BK), 1530 Indian mx, ID G(Bly)
 11805 BRAZIL R.Globo 0105 PP OM talks, ads, P(HS)
 11805 EGYPT RC 1240 AA talk and mx P (JPR)
 11810 ITALY RAI 0100-0120* EE nx G(WT, HS), *0120-0140* F, G(MWI, DCJ), *0140 II nx E(CG)
 11810 INDIA AIR 1330 EE nx, mx G(DCJ), F(GLD)
 11815 NETH ANTILLES TWR *0030-0045 EE DX pgm F (HS, DCJ), 1135 EE ID, Rel. pgm, G(CAW)
 11815 POLAND PR, 0200-0255 EE mx, P(DCJ, MI), G(ARN), 0319 EE mailbag P(HS)
 11820 MEXICO XEBR 1430 SS mx(JDT,ESB), 1900 SS pgm, E(DCJ), 2230 SS mx, ID, ads, G(Bly)
 11825 TAHITI ORTF,RT, 0400 Tahitian talk, mx, G(Bly)
 11825 KUWAIT RK *1730-1900* EE nx, ID, comtry, F(BK, MWI, JDT, RD, WWS)
 11835 HAITI 4VEJ 1125 EE mx (CAW), 1245 EE ID and rel. mx G(BK, MI, JPR)
 Erratic sked to 1800* (JDT), 2300-0000 EE mx, rel. pgm P(DCJ,RFB)
 11835 SUDAN Rmdurman *0255 IS, AA ID 0300 nx G(ARN)
 11840 PORTUGAL RP 0300 EE nx F(DCJ)
 11840 POLAND PR *0200 EE nx, ID, F//15120, 11815, 9675, 7285, 6135, 6035 (NAP, MI, GW), 0300 EE nx P(RZ)
 11840 AUSTRALIA RA 1758 EE world nx, IS, F(JDT)
 11845 CANADA RCI 1845 EE talk G(HS)
 11850 CANADA RCI 1700 Polish talk E(HS)
 11850 GHANA RG *2000-2100* EE nx, talk, mx G(DCJ, MWI, NAP, DJM)
 11850 NORWAY RN 0025 EE DX pgm P(CAW), *0600-0631* to WCNA/EE P(NAP)
 11850 LITHUANIAN SSR RV *0030 EE nx, mx G(CAW), *2230 EE nx, mx F(DCJ)
 11850 W GERMANY DW Wertachtal 0930 EE to Aust-NZ G(BP)
 11855 USA WNYW 0040 EE/SS lite mx P(HS)
 11855 BRAZIL R.America 2300 PP YL/OM talk P(MAF)
 11865 W GERMANY DW Wertachtal 2230 PP test to SA G(BP)
 11865 SWITZERLAND SBC 2115 EE interview F(JDT)
 11875 ANGOLA RA 1500 EE nx mx talk, P(DCJ)
 11875 NICARAGUA HN, 1700 SS LA mx F(DCJ), 1735-1740 EE talk(ARN), 0300 EE LL E(JA, EH, Bly), 0445 SS comtry F(CG)
 11890NF PHILLIPINES FEBC 1800 EE ID, mx(ARN), 2305 Oriental Songs, ex11920(BF)
 11890 E GERMANY RBI 0113 EE nx G (AAM), 0313* EE: F (HS)
 11890 ETHIOPIA ETLF *0530-0610* EE/W Africa nx, ID, P (MWI)
 11900 UKRAINE SSR RK *0030 EE/NA IS G(HS, DCJ)
 11900 MALAYSIA RM 0700 EE nx, mx P (DCJ)
 11900t CHILE LV de Chile 0320-0352 SS mx tentative ID F(LM)
 11901x TUNISIA RTVT 2310-2325* AA chants, talk, P (LM)
 11904x TAIWAN VOFC, 1025 CC ID F(LM)
 11905 RWANDA DW Kigali 0600 EE nx, comtry, mx F (DCJ)
 11910 HUNGARY RB 0320 EE mx ID F(CAW), *0400-0430* EE nx G(MWI, DCJ)
 11920 PHILLIPINES FEBC 1300 EE mx F (DCJ)
 11920 IVORY COAST Rabadjan 1900-2000* EE nx, comtry, F (DCJ, MWI)
 11920 EGYPT RC 0830 AA mx F(BP)
 11925 UZBEK SSR R Tashkent 1200 EE nx F(DCJ)
 11925 SPAIN RNE 0104 EE nx F(GB), *0200 EE talk, mx G(DJM,DCJ, DN), 0315 EE mx talks, G(WJP, CAW)
 11930 CUBA RHC 0332 EE nx F (HS)
 11930 FRANCE ORTF 0520 EE/W Africa, nx, mx F (MWI)
 11935 PORTUGAL RP 0200 EE nx G (EH, DCJ, DEM)

11935 AUSTRALIA RA 1300 EE nx to Asia(test freq) F(RZ), Spurious freq from 11945 (BP)
 11935 S AFRICA RSA 0715-0800 EE ID, P//11835 (NAP)
 11935 MONACO TWR 1700 NN pgm G (ESB)
 11940v RUMANIA RB 0300 EE/NA G(BK), 0430 EE nx P(DCJ), 2116-2126* EE nx to Europe (JDT, AS)
 11940 SINGAPORE RS 1200 EE mx, nx G (DCJ) 1530 nx "Sat. Showcase" G(DWW)
 11945 AUSTRALIA RA, Darwin, 0940 EE/Asia G(BP), 1030 EE IS, classical mx F(HS), 1323 Oriental(Thai?)-1331*EE ID F(JDT, JPR)
 11945 CANADA RCI 0100 EE nx G(JH)
 11950 BRAZIL R. MEC 0335-0356* PP Classical mx F(LM)
 11950 LIBERIA ELWA 0630 EE mx F (DCJ), 0720-0730* Vernac., EE ID F, some- times on until 0815* (NAP)
 11955 LEBANON RB 0230 EE nx comtry P(DCJ), G(BK, Bly, AS, MI)
 11955 ETHIOPIA ETLF 1945 EE talk P (JDT)
 11975 E GERMANY RBI 0230 EE/NA F(AS)
 11975 GRENADA RGrenada 0130-0210 EE ID as "Radio Grenada", mx P(DCJ,ARN,NAP)
 11975 USSR RP&P 0000 EE/LA nx F (EH)
 11985% ALBANIA RT 1530 EE, 1630SS G(European loggings) (ESB)
 11990 CZECH RP 0117 EE mx G(GB, DCJ), P(Bly), 0317 E (HS)(language/pgm?-ED)

12000-15000 kHz

12000 AUSTRALIA VNG time station 0530 EE ID F(MWI)
 12002v UKRAINE SSR RK 0030 EE/NA nx G(EH, CW)
 12020v N VIETNAM VOV 1530 EE nx G(DCJ)
 12095 ENGLAND BBC 0455 EE mx G(BCv)
 14408% ALGERIA V of Palestine 2245 AA mx, 2300 nx, 2325//15410 F(ECS)

19 Meter Band

15000 CUBA RHC 0230 Creole, spurious sig hrd over WWV, 0300 FF P(ESB, RBO)
 15005 N VIETNAM VOV 1300 EE nx, comtry F//12020 (DCJ)
 15013v CLANDESTINE Liberation Radio 1600 VV, shifted to 15017 @ 1620 F(ESB)-
 15045 CHINA RP 1630 EE/Africa, nx G(LKM)
 15060 CHINA RP 1137 FF/SEAsia, talk by w F (HS), 0017 EE propaganda F(AAM), 0110 EE nx P (MI)
 15070 ENGLAND BBC 0155 EE nx G(BCv), 1630 EE sports meet F (Bly)
 15080 INDIA AIR Bombay 1900 EE nx comtry P(DCJ)
 15084 IRAN RI 1250 Farsi F(BK), 1550 Farsi mx G (WJ), *1830 AA nx, G, 2030 EE ID G(DCJ)
 15105 ASCENSION IS BBC relay 0245 EE WS pgm F(RD)
 15105 JAPAN NHK 1700 EE/Gen Svc nx (EH), *1900-1930 EE nx E(Bly), *2000 EE ID, QRM de BBC P(CAW)
 15105 BRAZIL R. Rural Brasileira 2125 PP IDs, mx F(JDT)
 15105 MALAGASY RN relay 2000 DD pgm, QRM NHK P(ESB)
 15110 N ZEALAND RNZ 0415 EE mx to Pacific Isles G(RZ), 0500 EE Sun pgm G(JA)
 15115 ECUADOR HCJB 0100 EE nx G(DEM), 0300 ANARC Convention tape on DX Party Line 8/8 G(WWS), 0427 EE Rel. pgm G(BCv)
 15115 UZBEK SSR RT *1300 EE nx, QRM de HCJB (DN)
 15118 SRI LANKA RC 1430 EE ID, mx, ads F(KH), 1500 EE G(BCJ), 1600-1730* BBC nx G(DWW)
 15120 POLAND PR 0205 EE/NA P (HS), 0300 EE nx P(DCJ)
 15120 FRANCE ORTF 2300 FF talk G (BCv, GB)
 15125 MEXICO XERMX 0115 SS mx ID F(AEM)
 15125 TAIWAN VOF 1800 EE nx, cmtry F(DCJ)
 15130 ARMENIAN SSR EREVAN 0323 EE nx E (DCJ), 0500 EE nx G//15180 (EH)
 15135NF FRANCE ORTF *0500-0515* FF, *0515-0545* EE, *0545 FF, F//15295, 15190, 11930, 11730, 9680, 7135NF (LM)
 15140 AUSTRALIA RA 1300 EE nx F (RZ)
 15140 ENGLAND BBC 2305 EE nx G (BCv)
 15145 AUSTRIA ORF *0030-0045* EE Rpt from Austria, P (MI, AS)
 15145 SPAIN RNE 0335 SS mx G (NAP)

15145 BRAZIL R. Jornal de Comercio 0000 PP mx G(DCJ)
 15145 PHILIPPINES SEARV 0834 EE mx pgm F (JH)
 15150 W GERMANY DW Wertachtal 1700 EE test to Africa F//11785(GT), *2315
 PP mx F//11865, 9690 (ESB)
 15150 CHILE R. Corp de Santaigo 0115 SS nx E (AEM, DCJ)
 15150v N KOREA RPyongyang 0800 EE nx G(DCJ), 1355 EE talk P (BK)
 15155 BRAZIL RTupi 0030 PP futebol G(LKM), 0315 G(JA, BK)
 15160 MEXICO La Voz de Am. Latina 1350 SS talk (JDT), 1431 SS mx G(AAM),
 1845 SS talk P (BK), 2000 SS to 2300* (ESB, CW)
 15160 AUSTRALIA RA 0940 EE mx G (CR)
 15165 DENMARK RD 1200 EE ID G(JPR); *1400-1500 Danish to SEAsia, 1400 EE ID
 F(GW), *1600 Danish to NA, EE nx G (MWI, DCJ)
 15165 HUNGARY RB *0300-0330* EE nx E (GW)
 15165 ENGLAND BBC 0620 Czech NF this service (BP)
 15170 TAHITI RT *0230 FF/EE lesson G(DCJ, Bly, ARN), *0300-0350 Tahitian mx
 G(MWI, JPR, LKM, BK), 0353 Tahitian mx G(BCv), 0504 FF nx G(RD), 0700
 FF ID G(KH), *1615-1835* FF/Tahitian G(ESB)
 15170NF PHILIPPINES RVeritas 1050 Thai Scvc ex 15310 (BP)
 15175 NORWAY RN *2300-0030* NN, EE ID G-F(GW, WJP, MI, WT), 0200 EE nx F(DCJ
 *1600 EE/ECNA F(MWI)
 15175 MEXICO XEWU SS ads, up from 15150 F (AAM)(time?--ED)
 15185 FINLAND RF 1810-1830* EE talk F(JDT, MWI, DN, DCJ, CAW), 2300 EE(BK,
 WWS)(pgm details--ED)
 15185 NIGERIA VON, Lagos, 0600 EE nx G(AEM, DCJ, JPR), 0700 EE nx G(DWV)
 15185NF USA WINB 2105 EE talk F (FH, AEM)
 15190 CONGO R. RBrazzaville 1850 FF/African mx F(BK, AAM), 1930-2045 FF (AS)
 15190 ETHIOPIA ETLF 1330 EE nx F (RZ)
 15190 BRAZIL R. Inconfidencia 2230 PP nx F (AEM)
 15195 TURKEY VOT *2200-2230* EE ID, Nx, F-G(AAM, BK, DCJ, JA, LKM, MWI, MI,
 AEM)
 15195 MALAGASY R RN relay 1130 EE mx G(RZ)
 15200 VATICAN VR 2215 EE rel. nx F (RZ), 0000 IS, E(ARN)
 15210 LITHUANIAN SSR RV *2230-2300* IS, EE ID, nx E(MJ, RD)
 15210 USSR RM 2310 EE talk (EH, MI)
 15210 AUSTRIA ORF 2120 IS, ancmts, F (JDT)(language--ED?)
 15210 RYUKYU IS VOA relay *1600 EE ID F (AR)
 15220 S AFRICA RSA *0530 EE nx F (EH)
 15230 AUSTRALIA RA 0436 EE mx P, 0600 G (JDT)
 15235 BELGIUM RTB 0030-0100 EE nx G (GW, DCJ)
 15235 W GERMANY DW Wertachtal, *1320 CC//21580 Juelich(European logging)
 (ESB)
 15240 SWEDEN RS 1620 EE SCDXers F (RZ), 1850 EE/MidEast, P(EH)
 15240 AUSTRALIA RA 0400-0715 EE football onSat. E (JC)
 15240 ITALY RAI *0100 SS/LA F(GW)
 15245 ZAIRE RTVC 2345 FF, Afro mx G(Bly, GS)
 15250 ETHIOPIA ETLF 0430 EE ID and IS G(MI)
 15260 MALAGASY R RN relay, 1400 EE Happy Station P-F (RBO, RZ)
 15260 ASCENSION IS BBC relay, 0205 EE nx (BCv), 0800 EE nx F(JH)
 15260 JAPAN FEN 1500 EE mx F (DCJ)
 15265 BRAZIL R. Excelsior 0025 PP Sports E(ARN)
 15280 USA KGEI 0305 SS nx G(ES), 0400-SS nx F(BCv), 0430* EE P (MI)
 15280 HAITI 4VEH 1100 EE rel. pgm F(DCJ)
 15285 CUBA RHC 0310 SS ID F (EH)
 15285NF BELGIUM: RTB *2330 DD nx, ex 15235 (BP)
 15290t SYRIA Probably R. Damascus, 2315 SS P (NAP)
 15290 AUSTRALIA ABC(Perth), 0600 EE nx, F(CG)
 15295 SWEDEN RS 0200-0230 EE nx, E-G(DCJ, AS, JA, AAM)
 15295 FRANCE ORTF 0515 EE nx E (JA), //17730, 15190, 11920 (DCJ), 2010
 FF mx P (JDT)
 15300 PHILIPPINES FEBC 0830 EE mx, rel. pgm F-G (DCJ)
 15300 JAPAN NHK 2305 EE nx P (AEM)
 15305 SWITZERLAND SBC *2100-2130* EE/NA, F(GW, JPR, RD, RZ), 2315 RR mx F(EH,
 0145 EE nx commtry G(DCJ, BCv, MWI), 0345 II nx F(CG).

15310 SWEDEN RS 0200 EE nx, mx to Africa G(JA), *1400 EE P (GB, BK)
 15315 ITALY RAI 0315 SS mx F (CG)
 15320 W GERMANY DW Juelich(?) *1600-1810* GG ex 9655 (ESB)(European logging)
 15325 BRAZIL R Gazeta 2330 PP pops , ID, 0000 time pipe G (RD)
 15330 ITALY RAI 0355 EE nx F (NAP)
 15335 S KOREA VOFK 0300 EE nx, mx F-P(DCJ)
 15335v LUXEMBOURG RL 0100-0205* EE pops, rock mx, G//6090 (NAP,ARN)
 15340 PORTUGAL RP *0445 PP nx E (Bly)
 15345v GRECE HNBI 1729 Greek IS, nx (AAM), 1946 Greek mx, IS 2000, nx F (JDT)
 15365 CANARY IS RNE 0215, 0304 SS/LA mx, E//11800 (EH, DJM, NAP, Bly), *1950 SS E (GT, DCJ)
 15400 IRAQ RB *0227-0300 AA ID under VOA F (HS, ARN), 0330-0400 AA nx G(MWI), 0430 AA nx P(Bly)
 15410 BELGIUM RTB 1830 FF pops F (RS)
 15410 RWANDA DW relay 2315 GG nx, mx F(EH)
 15415 BRAZIL ZRY216 2330 PP mx, talks F (ARN)
 15420 VATICAN VR 0103* EE ID G(CAW), *0109 FF ID (MWI)
 15420 JAPAN NHK *1930 RR ID F (ARN)
 15425 NETHERLANDS RN 2144 SS nx ID G (WT)
 15425 AUSTRALIA VIW15 0400 EE mx, talk, P(DCJ), 0740 EE pop mx G(DWW), 0915 EE pop mx and serial G(CW)
 15430 SWITZERLAND SBC 1100 EE nx P (RZ)
 15435 MALAYSIA BCFES 1300 EE nx F (JPR)
 15440 PHILIPPINES FEBC 1315 EE rel. pgm P(RZ), 1430 EE ID P(BK)
 15445 JAPAN NHK *2345 EE P (DJM)
 15449v BRAZIL RNacional, Brazillia 0000 EE IDs, Brazillian mx, F(DWW, LKM, DCJ, AEM), 0100 EE IDs, local mx, PP talks F-P(Bly, EH), 0510 EE IDs P(MI), 2330 EE IDs PP mx F(DJM, ESB)
 15475 EGYPT RC 0546 AA cmtry ID F (NAP), 1140 AA mx P(JPR)
 15510a USSR Radiostanya Rodina *2000 RR mx F (MI)(15490 1st--BBC Ms-ED)
 15520v PAKISTAN RP 1745 EE dictation nx F-P (DCJ), 1945-2130 EE/lingo P-G (JA, MI, RZ, WT, ESB, FH, MWI, GT, JDT, RD, LKM, AAM)
 15520v BANGLADESH RB 0230 EE nx, mx P (DCJ)

17000-19000 kHz

17655 EGYPT RC 1630 Swahili nx F (WT), 1730 EE nx cmtry F-P(DCJ)
 17670a UNID 0445 AA chanting, abrupt 0515* (AS)
 17695 ENGLAND BBC 1420-1430* EE P (GW)
 17700 E GERMANY RBI 1230 EE nx P (RZ)
 17705 ENGLAND BBC 1354 EE talk F//21470(BCv)
 17710 USSR RM 2045-2130* African Scvc G(GW)
 17715 AUSTRALIA RA 0540 EE pop mx G (NAP)
 17715 CHINA RP EE talk F(EH)(time?--ED)
 17720 TAIWAN VOFK 0200 EE nx//17780, 17890 P(RZ, NAP)
 17725 EGYPT RC 2155-2158* EE/WAfrica F(NAP)
 17730 FRANCE ORTF 0520-0545* EE/Africa G//15295, 15135(NAP), 1100 EE nx P(RZ)
 17755 USA WNYW 1805 EE, CBS nx F (AAM)
 17770 N ZEALAND RNZ 0200-0215 EE nx G (BK), 0300 EE mx, F//15110(DCJ), 0415 EE mx to Australia P (RZ), 0545* EE Kiddie show P (NAP)
 17775 NETHERLANDS RN 1530* EE test(?) G (RZ)
 17785 USA VOA 1810 EE nx G (BCv)
 17795 AUSTRALIA RA 0145 EE mx G(BCv), 0240 EE nx, mx F (JD), 2150 EE nx P(CAW)
 17795 NORWAY RN 2200-2230* EE ID, nx F (CAW)
 17795 SWITZERLAND SBC 1100 EE nx to Africa P (RZ)
 17815 CUBA RHC 1900 FF talk G(HS, EH)
 17815v SWEDEN RS 1300 Swedish ex 15105 G(BP)
 17820 CANADA RCI 2100-2141 EE nx, F(CAW, GW)
 17820 AUSTRALIA RA 0430-0500* EE nx, DXers Calling, G (RZ, NAP)
 17825 NORWAY RN 1600 EE nx, Talk, F-P (DCJ)
 17825 JAPAN NHK 0220 EE nx F (EH)
 17855 JAPAN NHK 0300 EE nx VP(RZ)
 17875 MORROCCO VOA relay 1803 EE nx (BCv)

17875 BRAZIL R. MEC. 2230-2300 PP ancmts G(ARN)
 17880 ECUADOR HCJB 1230 EE/NA IDs, G//11875, 15115, 21460 G(MW)
 17880 JAPAN NHK 0300 EE nx, mx, VP(RZ)
 17890 TAIWAN VOFC 0200 EE nx, mx, F-G//17720, 15345 (DCJ)
 17925 EGYPT RC, 2345 AA IS, P (RBO)
 17938a BANGLADESH RB 1230 EE nx VP (RZ)
 18002 CUBA RHC 2135-2145* Lingo, IS, F(NAP)(Spurious, likely//17815-ED)

21000-26000 kHz

21455 MOROCCO VOA relay 1630 EE nx F (BCv)
 21455 LIBERIA VOA Relay 2130 RR to USSR F(BP)
 21470 ENGLAND BBC 1345 EE talk F(BCv)
 21495 PORTUGAL RP 1757 FF mx (BCv)
 21530NF USA WNYW 1735 mx F-G(GW), 2135 EE documentary ex 21525 (BP)
 21535 S AFRICA RSA 1615 EE talk, mx F(NAP)
 21540 USSR RM(Kursk) 1330 EE to Africa, QRM de DW (AVS)
 21545 GHANA RG 1445 EE nx, cmtry, mx F(DCJ)
 21555 INDIA AIR 1200 EE Indian mx F (ECS)
 21570 NETHERLANDS RN 1840-1935 EE mx, talk, nx F(DN, BCv)
 21580 FRANCE ORTF 1600-1750 FF ECNA, mx F//21675, 15120 (GW)
 21590 PAKISTAN RP 1330 EE nx P(DCJ)
 21670 NORWAY RN 1830 NN Africa, heavy QRM P (AVS)
 21685 HUNGARY RB 0100 sked to NA--no signals--what gives?(AVS)
 21705 MEXICO XERMX 0000 SS mx, talk, ID, G(DCJ)
 21710 ENGLAND BBC 1545 EE talk G(GW)
 21740 AUSTRALIA RA 0100 EE mx, talk, F(BCv, DCJ)
 25790 S AFRICA RSA 1245 EE mx F-G(RZ)

THOSE WHO MADE IT POSSIBLE:

AAM	A.A. Miller, OH/HRO500	GT	Gary Toncre, FL/DX-150A
AEM	A.E. Martin, England/AR-88	GW	Glenn Window, QU/
AR	Al Reynolds, TN/SPR4, SX130	HMA	Hiro Matsuura, JA/A-2515
ARN	ARNblack, IN/SX100II	HS	Harold Sellers, OT/Trio 9R-59D
AS	Arthur Smith, AL/StarRoamer	JA	John Alcock, FL/SX-43
AVS	Al Sizer, CT/HQ-180, SPR-4	JC	John Campbell, TX/S1S1
BBy	Bob Bundy, CIs/SPR-4, R530	JDT	J.D. Tuchscherer, WI/HQ-100A
BCv	Bruce Cusawell, CN/SX-190	JH	Joe Helm, IN/SW-4A
BK	Bob Kelleher, NY/SX-190	JPR	Jim Ronda, OH/SW-4A
Bly	Brian Lynn, CA/DX-120	KH	Ken Hunt, CA/Zenith TO-7000
BP	Bob Padula, Australia/CR100	LKM	Larry Marshall, CA/SX-190
CAW	Craig Wicks, MI/DX-150A	LM	Larry Magne, PA/R4B
CG	Ciro Guarducci, BC/HA-600A	MAF	Marlia A. Field, MI/SX-100
CRP	Carroll Patterson, GA/	MB	Mike Branbley, NJ/SX-190
CW	Corky Webb, TX/SPR-4, SX-190	MI	Martin Imbert, VA/DX-150A
DCJ	Don C. Johnson, CA/	MJK	Mary Jo Kelleher, NY/SX-190
DEM	Dave Megyesy, NJ/	MWI	Michael Wiseburg, OT/SX-190
DH	Dan Henderson, MD/HQ-180A	NAP	Neal Purdue, TN/SW-4A
DJM	Doug McClellan, NM/GR-64	NK	Neale Kolb, FL/SX-190
DMD	F. Earle Hall, MA/HQ-180A	PR	Pete Romeika, PA/PT-914
DN	Doug Nathman, FL/RE8000	RBO	Richard B. Odin, WA/R4B
DR	Don Rydell, NY/DX-150A	RD	Rich D'Angelo, NY/
DWV	David Whaley, CA/SW-4A	RFB	Robert Bruce, Scotland/Eddy 830/7
ECS	Ed Shaw, VA/SX-190	RZ	Robert Zilmer, WI/SPR-4(2)
EH	Elton Hewitt, ID/NC-57B	SDA	Steve D'Adolf, MA/
EH	Eric Herson, OH/SX-110	SK	Steve Kamp, CA/HQ-140X
ESB	Ernie S. Behr, OT/	WJP	William Plum, NJ/WR600
FH	Fred Heutte, DC/HQ-129X	WT	W. Trkula, PA/SPR-4
GB	Gordy Brill, WI/S-120A	WWS	Woody Seymour, Jr, NC/SX-190
GLD	Gerry Dexter, WI/HQ-180	"X"	Magne & Campbell, PA/R4B
GS	George Schnaebel, NY/SW-4A		

Thanks to 61 reporters this my first month as an editor for LR. Apologies to the "EH" above--the duplicate listing won't happen again! Please, put your name and/or initials with each item--it helps me out greatly! Until next month--
 Dan Henderson

FLASHSHEET

FREQ: KCS

TIME:GMT

AL NIBLACK, EDITOR; 420 SHELBY STREET, VINCENNES, INDIANA.... DEADLINE 20-TH MONTH

ANGOLA Emisora Official irregularly heard S/on in EE at 1500 on 9535//11875. (August
ARGENTINA 11880 R. Splendid 0003 in SS, lots of chatter. (Joe Helm, Ind.) / Balbi,
 ... Time signals on 15000, heard well under WWV around the 2330 time slot / Calif.)
 says Ed Insinger, N.J.)(LOL)

AUSTRALIA 4800 RA, 1120, play, music and news in EE. (Joe Helm) (Is this logging
 correctly reported, Editor)...RA on 11945 from 1323 tune in language(Thai?) with EE
 ID 1331. Rechecked. (John Tuchscherer, Wisc.)...11945 Must be a new fgy, S/on 0930 with
 EE ID, is vvy probably the Darwin Relay, formerly 11760. Good signal. (August Balbi)
BANGLADESH 15337 RB 1500-1546 S/off in native language, some music, gud lvl. (Ernie
 ...11650 RB's fgy varies some, EE to Europe 1715-1800. (August Balbi) / Behr, Canada)
BOLIVIA R. Altiplano, 5045, indeed at nice lvl, usually after 0300, SS.(John Tuchscherer)
BRAZIL ZYR61 noted 0255 in PP amidst QRM, music and ads. (Ernst Lohe, Va.)...5037 (TENT)
 R. Anhanguera, 0320, weak lvl, with mention of Brazil, all PP. (Dan Jamison, Va.)
CANADA 6160 St. Johns, with a wee 300 watts, surprised this morning, 1325-1400, with
 music,, discussion. IDs as, "This is the CBC Radio Network, CKZN, Shortwave!" (Ed Insinger)
C. AF. REP. 5995 Bemako observed at 2300 with Afro music, FF anncts. (Ernst Lohe)
CHINA 4759V Tune in 1350-1405 tune out, UNID, but seemingly new provincial station;
 usual Chi fare, local ID 1402 seemingly, "?Tsinghai, JKT"; however, not parallel known
 Tsinghai outlets. (Bob Bundy, Truk)(Note; In recent report I gave this as Peking HSI!
 I located this from the third harmonic on 14277! (Bob Bundy)...4833,5 1515 S/off, TENTA-
 TIVE Liaoning Provincial Stn. S/off 1515 without "Int", which unusual. Gets bad hets
 from Bangkok and Sarawak. (Bob Bundy)...6935 S/on 1030, Yunnan Provincial Stn; 1030,
 "Yunnan, JKT, Yunnan JKT". Then instrumental version of "East is Red", fair. (Bob Bundy)
COLOMBIA 15500 TENT RDF Nacional, in SSB xmission, 2100, SS. (Dan Jamison)(Think this a
 P-T-P station relaying Radio Nacional, Editor)...R. El Sol heard with fair sigs, 6140,
 at 0800, SS. (Frank Orcutt, N.Y.)...R. Santa Fe logged no strain lvl, 4965, SS.(Frank
COMORO IS. From tuning 1640-1701 leaving, ORTF, Moroni, in FF, mc. RTTY QRM / Orcutt)
 and Jammers make this one rough. Was really looking for R. Maldives! (Bob Bundy)(3331)
CONGO (R) 6114.75 RTV Congolaise in FF 2320, an ID, "La Voix de la Rev Congolaise"(Ernst
COSTA RICA 4832V What annos as R. Capital hrd nightly, SS, 0530.(Frank Orcutt) / Lohe)
DOMINICAN REP. 4881 R. Commercial, SS, 0542, music, ID. (Ernst Lohe)...R. Mil heard
 nightly at good lvl, 4930, around 0500 checks. (Frank Orcutt)
ECUADOR R. Dif. Nacional logged 0310, SS, music, sports, and complete ID, 4765.5, call
 letters. (Ernst Lohe)...R. Rio Amazonas, 1110, language under QRM, followed with piano
 and instrumentals. 4870, On first try after Sizer's article, via Ralphus! (R.B.Olin,
ENGLAND BBC seems to be operating 9860A, heard daily. Prgmng in EE and / Wash.)
 music, fair lvl. (Harold Sellers, Canada)

ETHIOPIA Voice of Ethiopia heard around 1415, Somali type music, 9578A, new fgy. (Al
FALKLAND IS. Al Sizer, Conn., FLASHES that during excellent reception from / Niblack)
 LA, tentatively Stanley observed on 3942.5, from 0105-0117, pops, and YL annor, seem-
 ingly in EE. Possibly FIBS. (Via Don Jensen, Wisc.)
GERMANY(W) 7265 Suedwestfunk Baden-Baden, 0355 religious prgm, 0400 news, folkmusic,
 all GG, weak lvl with ham QRM. (Editor Magne, Penn.)
GRENADE WIBS(annos R. Grenada), EE news at 0200, on 3300. S/off 0213, no sign of Be-
 lize, wonder if on the air? (Ed Insinger) (Belize is intermittent, plans to definitely
 return to the air on SW, Editor)
GUYANA Action Radio hrd with Indian music, ads, poor signal, 3290, at 0845.(Frank Or-
HAITI 15280 4WVI noted with religious prgmng at 1200, in EE.(Ed Insinger) / cutt)
 ...4VEJ, 11835 with religious format at 1305, SS, but ID in EE, good. (Joe Helm)
INDONESIA I wish to report the following: 3975 RRI Surabaya, clear ID at 1159 as,
 "Inilah R.R.I., Surabaya," news 1200. CF July LR-2...3960 R.R.I. Padang, talk and Indon-
 esian pops 1330-1400; ID 1340...3893 R.R.I. also, QTH unknown, native pops at 1215,
 says Hirootsu Matsuura, Japan...Djakarta, 11720, found with EE news 0900, under Peking,
 severe QRM. Strong signal in clear 1330-1530, native only ID at 1500. (August Balbi)...
 9586 Djakarta, EE 1430-1530, news 1445, some QRM. (August Balbi)

PLEASE TURN OVER

ISRAEL Neal Perdue phones at last moment that Jerusalem noted on new 11855, with EE news and comments on a Sunday from 2035-2046....Also noted earlier 7/31, on new 11715, 2035-2115, in parallel with 9625, says Neal from his Term., QTH.

MALAGASY M Relay noted on 7295, 2205, though ARO QRM, with fair sigs, in EE and light music, 8/15. (Dan Jamison)

MONACO 11920 TWR at 0815 with religious prgm in AA(?), fair/good lvl. (Joe Helm)

NEW CALEDONIA Noumea S/on earlier, heard 0530, on 11710; 9510 and 7170 deleted. (August Balbi)...3355 ORTF, Noumea, FF, //11710, 670MW; delete 7170, 9510. (Bob Bundy)

NORWAY 11850 Oslo noted 0545 with news, music, arned in language and EE. (Joe Helm)

PAKISTAN 11650 1700-1720 Tune out, occasional EE IDs, anncing test, 8/8. Radio Bangladesh on 11659 under ute. (intentional??) (Bob Bundy)

PAPUA/NG 3235 0835 R. Milne Bay; Pidgin news at 0835, 8/11; checks show RMB has not made the expected switch to 3360, yet. (Bob Bundy)

PHILIPPINES V of P, 9580A, off the air, but returned August 16; news 0710. (August Balbi)

SEYCHELLES 11920 0900 Noted with religious format after Monaco S/off, fair only lvl. In FF, better make this tentative. Taped report sent. (Joe Helm)

TAIWAN (?) 11905 Unid station 1100-1351, CC prgm; 1400-1430, Asian lang perhaps Tibetan 1440-1511 CC type lang, 1520-1550 Asian lang; 1600 past 1800 CC prgm. A powerhouse signal, at least 250kw. Also strong on //7150 past 1300. Minhsiung listed for both freqs but anncing BANGKOK QTH at 1430. (Ernie Behr)

TANZANIA 5985 R. Tanzania weak in Afro lingo at 0315, QRM de VOA. (Dan Jamison)

U.S.A. Station WINB on 17710 at 1900, fair copy, in EE. (Ed Insinger)

VEZUEBLA 5035 Radio Contiente at 0430 check in native SS. (Ernst Lohe)...9660 Radio R. Rumbos in SS chatter, lotsa laughter, from 0408. Sent a tape. (Joe Helm)

VIETNAM(S) 7176 Tune in 1025, VTVN, Saigon in Viet talks; another off freq station I located by means of its 20 meter harmonic; //1920, 6165, 11950. (Bob Bundy)

VIETNAM(N) Hanoi, 15010, from 15005, powerful lvl at 1300-1326 in EE, 8/14; at 2000 EE fair lvl only, also on 12040, 10040 parallels. (August Balbi)

CLANDESTINE (FLASH) ENGLAND 6300 Pirate Blossom Radio heard with prgm of popular music from 1228-1250 S/off (Sunday 8/13). Asks for reports to Blossom Radio, Dept. H, 91 Park Street, HORSHAM, SUSSEX..Promises to verify correct reports.. Quote from above, "This is a test transmission with a radiated power of 5 watts". (A.E. Martin, England)...

SVN Liberation Radio heard on 10030A, 10100A, and 10120A. 10100A with best signal and definite ID in Viet heard. Prgm consisted of revolutionary or opera music till time pips at 1100 and ID. (Harold Sellers)...1430-1500, Liberation Radio, usual EE fare to GIs. Fair except during UTE QRM. (Bob Bundy)...R. Espana Independiente S/on with soft chimes, 10110, full ID, folk melody, OM with SS talk. (Bob Bundy)...(At 1601)

HARMONICS 12015 Radio Reloj, Costa Rica, loud and clear, several IDs; time GMT, 0605-0625, SS, IA music. Hope this is not a harmonic. (Neal Perdue) (Yep, it is, Editor)...14100 China Tune in 1320, Sinkiang Provincial Station, Urumchi; Neo-Mongolian talks, second harmonic of 7050. (Bob Bundy)...14238 Taiwan VOFPC, Korean talks and CC music, 1005. Second harmonic of 7129. (Bob Bundy).

JULY 1972

SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 8-4-72

1-86, 2-74, 3-85, 4-91, 5-104, 6-92, 7-97, 8-86, 9-75, 10-64, 11-62, 12-77, 13-89, 14-86, 15-61, 16-60, 17059, 18-55, 19-73, 20-59, 21-70, 22-72, 23-68, 24-64, 25-62, 26-83, 27-82, 28-86, 29-106, 30-112, 31-115 MEAN=78.6

PREDICTED: AUG-57 SEP-55 OCT-53 NOV-51 DEC-49 JAN-47 (Grady Ferguson, So. Car.)

(COMMENT: Look at that downward trend, with September approaching and the lowering of the QRM level, it should signal the beginning of a banner low band DX season, Editor)

AND NOW, FOR SOME INTERESTING INFORMATION FROM OUR CONTRIBUTORS; "On weak stations I am finding the A20 Presselector of much use. Many stations which barely budge the SPR-4 S Meter rise to S7 or S9 with it. Of course, the noise level rises, but I find most unreadable stations come up to easily readable level thru use of the A20 (Bob Bundy) ...I received this memo yesterday from Hammarlund via Sales Manager Robert W. Fisher: "We regret that due to reasons beyond our control, production of the HQ-180A has been discontinued". (Ed Insinger) (Another general coverage Rx bites the dust. Soon this breed will be as scarce as the Dodo bird, Editor)

ACKNOWLEDGEMENT; Thanks for all the solid support this month. Please keep shootin' in the reports. Without your expert aid this column would not exist. Last minute items may be phoned to 882-3976, after 2200 GMT. Good DX and Vy 73, AL

FRIENDS

fotos fotos fotos fotos fotos

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



Help continue making the photo page a success. Mail your entries to the Corresponding Secretary. B & W photos and color (if clear and not dark) needed.

PAUL PETERSKY

Uses NC-183 and GR-54 receivers with a 60M dipole and SWW-7 Ants. He has totals of HIC 115/ VIC 83. The past year has been most active in his 4 years of SWling.

CRAIG WICKS

is fortunate to be one of the few who have a shack to themselves as this attractive arrangement. His main receiver is a Realistic DX-150.



GARROLL "PAT" PATTERSON

Another of the fortunate ones who has a shack devoted to the hobby. Pat's SX-99 has served him well, and we appreciate his expertise and service as a knowledgeable DXer.

ED RICCHEZZA

Ed has made good use of his SW-4A and Joymatch tuner combination. He also employs a 100 Khz Xtal Calibrator. Oddly, he uses the metal frame of his 12th floor apartment window as an antenna - so far netting him 86 countries in 18 months. He has also added GILFER's new Pre-selector for greatly added gain.



IF THE BLANK is stamped with a date, your membership in NASWA will expire with the _____ issue.

It is the hope of the bulletin staff that you have found your membership useful and enjoyable, and we look forward to having you with us another year. It will help us if you renew early, so we can be sure you continue receiving FRENEX without any interruptions. Dues for members in North America are still US\$10, for First Class delivery of the bulletins. (US\$11 for airmail).

OVERSEAS MEMBERS - due to slowness of seammil, we recommend AIRMAIL delivery. Cost for airmail to your QTH is _____ per year. However,

if you wish the lower rate, seammil delivery is available for US\$10. All members outside the United States should remit via International Money Order, or via a check on a US bank, drawn in US funds....Checks and/or money orders should be made payable to NORTH AMERICAN SHORTWAVE ASSOCIATION, or simply, NASWA....When renewing (And when not, for that matter!) be sure to take advantage of the opportunity to comment on FRENEX and/or the club. Let us know what you like and dislike about the bulletin.

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