

NORTH AMERICAN SHORTWAVE ASSOCIATION

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FEBRUARY 1969

VOL. 8 NO. 2

NASWA HEADQUARTERS

POST OFFICE BOX 989

ALTOONA, PA. 16603

PLEASE NOTE

Being that our club continues to grow, perhaps more readily so than any other of clubs in North America, members must realize there are problems to solve and pitfalls to elude. Our monthly bulletins are not simply thrown together, but are, in most cases, quite carefully planned by each editor of every section. Said editors give much time and good effort to their works every month. Same is true at club headquarters, center of every operation. It should be pointed out that each of the editors and officers in NASWA are either employed vocation-wise full time or are furthering education, some are doing both; therefore it is not always possible for them to reply to mail received, at least not as expediently as some members seem to think they should. Keep in mind that even though each editor/officer has certain obligations regarding his club work/duties, he should not be expected to neglect his private/personal interests/pursuits. We are here concerned with a hobby, not an avocation.

Presently our Log Report editor, Dan Ferguson, finds that he is having difficulty in finding necessary time to devote to his section. The support he has been getting is overwhelming (and much appreciated) and he has requested assistance. Therefore, as of beginning with the April edition of *Friendx*, reports for the Loggings section will be sent to two different editors, Dan, and his co-editor to be appointed. Reports for all frequencies 9775 and lower will be sent to Dan, reports for all frequencies above 9775 will be sent to his co-editor. Hdqs has already approached a few members considered capable and worthy for the co-editorship and it is expected his appointment will be officially announced next month. All members are asked to be alert to this so that the change will be made smoothly and efficiently. More complete/concrete information hereto will be in both the Hdqs and the Log Report sections of March bulletin. Watch for it!

FALSE RUMOR

Word has been going around that the R.L. Drake Company is going to discontinue the SW4A receiver. This is not so! According to letters sent the company by NASWA members (A. Stillman and Clarence Poole), replies from Peter W. Drake-Customer Service, and E. V. Delaney-Sales Department, state "We do not have any present plans at all for discontinuing the SW4A receiver. The sale of this receiver has further convinced us that the SWL market is a good one. We have found it an enjoyable experience to deal with the SWL and his fascinating hobby." Mr. Drake also said, "We are working on a more sophisticated unit which will sell for considerable more money. In fact it is a commercial unit. Nonetheless, our present thinking is to continue the SW4A." (Thank you SS and CP)

Frendx is the official publication of the North American Shortwave Assn. and is for the SWL/DXer expressly interested in international shortwave broadcasts. There are no subscriptions; only active and in good standing members are entitled to receive copies other than samples or exchanges. Membership in NASWA is \$5.00 per year with 12 monthly editions mailed via 3rd class (surface mail abroad) or \$7.00 per year with 12 monthly editions mailed via 1st class (North America). Airmail rates are available on request. This edition, as all, is made possible through the combined interests/efforts of the bulletin staff, club officers and supporting members.

Executive Editor/Hdqs, William Eddings
 Shortwave Center Editor, Richard Wood
 Log Report Editor, Dan Ferguson
 QSL Report Editor, Gregg Calkin
 NewsRoom Editor, Dan Henderson
 Special Reporters, this month: Del Hirst, Dr. James Robinson, Al Sizer, Rod Williams, Hank Michalenka, Craig Koukol, Gerry Dexter, Cesar Objio, Gary Galo, Glenn Hauser and Steve Smith.

FlashSheet Editor, Al Niblack
 ANARC Reporter, Douglas Benson
 Awards Chairman, Warren Nordgren
 Contest Chairman, George Schnabel

LATE NEWS/NOTES...

VOA-Rhodes noted w/local ID at 0600 signoff on 6015, 24 Jan, says Dan Ferguson, Fla... As described in report on the SX-130 (Dec. 1968 Frendx) I have removed the amateur band markings from the rear of the dial glass with acetone and substituted a homebrew template of all SWBC bands 90 - 13 meters. It may readily be attached to the black background and under the tuning dial needle. Anyone desiring a sample template with full instructions, simply send SASE. Ed Shaw, 6350 Blanchard Rd., La Mesa, CA. 92041..... Index for 1968 Frendx can be had by sending SASE to NASWA Log Report editor at his QTH (See Log Report section!).... Dont miss the questionnaire, on another page, in this bulletin. Read, complete and mail it to Hdqs as soon as possible. It is important!... By the time this bulletin arrives, the new-revised NASWA Country List will be ready for release. Members desiring copy should send 10¢ (coin or mint stamps) to Hdqs.....

THE BUSY BODIES

SOMEBODY, EVERYBODY, ANYBODY AND NOBODY were DXers. Odd people they were, hard to understand. The way some of them operated was a shame and EVERYBODY knew it. For example; SOMEBODY was always running down his fellow members and EVERYBODY was aware yet NOBODY did anything about it. ANYBODY knew that EVERYBODY was talking about SOMEBODY. All four, members of the same club, still NOBODY wanted to cooperate and wouldn't because they were not speaking to SOMEBODY. NOBODY was loyal. NOBODY contributed. NOBODY gave a helping hand. NOBODY wrote. NOBODY worked harder than ANYBODY. But, when they needed a volunteer, NOBODY thought ANYBODY would do it, and EVERYBODY thought SOMEBODY could do it better. When a new DXer wanted to join the club, EVERYBODY thought SOMEBODY should drop him a welcome card. ANYBODY could have done it, but didn't. Who finally did? Yep, NOBODY!

(Author Unknown, Adapted)

SUPPORT YOUR CLUB - DON'T BE A BUSY BODY. NOBODY WANTS ANYBODY

TO DO NOTHING. INSTEAD DO SOMETHING. EVERYBODY TELL SOMEBODY!

Ed Shaw

The ANARC Report

This month;
QSL Committee
Report, NASWA
member submits
hot idea, new
Constitution'
balloting...

A summary report to members on activities within the Association of North American Radio Clubs, compiled and edited by your three NASWA reps, Bruno Colapietro, Gerry Dexter and Doug Benson. ANARC is a parliamentary body composed of representatives from the major radio clubs in North Amer. and the Carribean areas.

Next month;
More news &
views from
your assoc.
serving you
and your own
sw hobby...

Has been quite awhile since we filled you in on the latest happenings among the various committees operating for your hobby benefit, and for the hundred-odd members we've enrolled since last rundown and who might be in the dark over jus' whuts whut, les' take a look;

The manufacturers Liason Committee, one of the oldest ones in terms of formative service to the association, which was originally headed up by Stan Stanbury, now is under the auspices of Gordy Nelson. You remember the effort this committee fostered three years ago when we were trying to get manufacturers to take an interest in producing such SWL-only items as bandspread receivers (they're all over de place these days), listening antennas cut and designed for the listener alone, rather than the ham operators freqs, and such items as SWBC-preselectors. The committee, notes Chairman Nelson, is at work on another project, but apparantly tis a closer-guarded secret than Katy Winters' deoderant.

The Broadcastband Committee (Jerry Starr, Chrman) reports further verie improvements in that end of the hobby.

Gerry Dexter, NASWA Rep and ex-Executive Secretary of the association, is amassing a tremendous list of shortwave and broadcast commonly-used abbreviations. Gerry's interest in this compilation has drawn attention from J.M. Frost of World Radio Handbook for possible inclusion of parts of the list in an upcoming WRH publication. Dexter reports the list is in its final draft phases, thence to be stenciled and sold for a buck a copy. We have reserved plenty for NASWAers, and will jet you the word when it's ready. You won't beleive the size of this monster.

By far the most energetic committee ever drawn by the association has been the QSL Committee, now under the chairmanship of NASWA's own SW Editor Prof. Dick Wood. This committee, year after year, has been informing the various shortwave broadcasters of the world on the proper form for veries, and has been especially instructive in the fields of getting the Latin American broadcasters to comprehend the purposes of reports and the issuance of legitimate QSLs. Some of the revelations unearthed by this committee while in pursuit of verification standardization have been startling, to say the least. After 50 years of radio, many stations still do not know the differences between a verie and an acknowledgement letter to the listener. Wood's Boys ala Hawaii report that the QSL Committee's January trget was Radio Vila, New Hebrides. Reports Wood, a new Information Officer there has begun the formidable task of backlog checking the amassed reports. The committee, found Wood, reported a stenciled letter titled "QSL from Radio Vila" was being sent out, but no verification text was included, and the letter was composed of general information on the station. Dick notes that the committee pointed out, by example, the information needed on a real QSL. In addition, noted the Chairman, the committee spelled out the difference between the station between answering an enquiry letter with a "QSL" and with a standard informative reply. Good show, old boy.

That's a rough look at your association's current committees. Now, let's

flip a page and cover this month's news....

Headlining the association's heads-up steamrolling under the new Executive Secretary, Toronto's Gray Scrimgeour, we find that the constitutional changes and by-law alterations, sorely needed by the growing association, have been presented in the newsletter this month for representatives' vote. If possible at deadline time next issue, we will carry the results here. Complete and detailed coverage then....Right now, though, we're just spitting on fingers and holding them in the air to see which way the wind is blowing.....

Dan Ferguson of Coral Gables sends along a suggestion to Ye Ed. Benson that we found to be worthy of sending to the association, and so it has been so mailed to Scrimgeour. You're getting a sneak look at it here this month. Briefly, Dan suggested that perhaps the Association "could accomplish what one man (Dan) has been unable to do", ie make certain shortwave stations carrying DX Programs wake up to the fact that much of their listener-aimed DX Programs do not carry up-to-date station reports and information. Dan mentions a specific station, largely respected in the listening fraternity, whose staff has ignored his letters offering up-to-date station reports. Said Dan, nothing was asked of that station except that due credit be given him on the air. Hand in hand with that comment, he offers instances where stations have used, for their DX Program purposes, information from club bulletins without crediting the publication or the source of the item. Dan, we think you have a legit gripe, and have sent the information to the assoc, whose next newsletter we feel sure will put it up for grabs and discussion.

Bill Sparks of California has been appointed Association Parliamentarian, to advise reps and the ES of the aptness and correct wordings of proposals, ballots and the like. A small appointment that may have far-reaching and good effects. Many errors have been committed and time lost in the past four years of ANARC business over incomplete ballots, poorly-worded though well-meant proposals, and other such human errors of speech and thought. (There is a special proviso in the now-being-voted-upon Constitutional changes specifically creating the post of Parliamentarian to the association)

Any NASWAers who'd like to correspond with English pen pals may want to write Douglas Perry, 8 Kingsbridge Road, Harold Hill, Romford, Essex, Eng. He's requested such information from the Association, and you can write him direct if you'd like. Don't forget to mention that you caught the info via the Association of North American Radio Clubs, eh?

An interesting point raised by ES Scrimgeour, although the possible failure of the endeavor cannot be laid to him, is the proposed DX Census of...yes..almost a year ago. This Census was suggested by a representative who was then in turn appointed by the outgoing ES to the chairmanship of the effort. This writer exchanged a letter or two with the appointed chairman, got what appeared to be an interested reply from him with suggestions for the basics of the Census, and then - poof! Not another word from that individual. Zero. 'uttin'. Apparently he didn't want to get involved in the effort, and that not to his discredit. But we cannot help but wish that he had let us know so that another could have gotten the ball rolling. It may come to pass after all, notes the new ES. What's the reason for all this rigamoroll over a DX Census? Well, DXers buy equipment and influence manufacturers just for one, and the amount of outlay each provides might be a good clue to the future outlays available to manufacturers. Such a DXC wd seem to fall right in step with the Manufacturers Liason Committee, wouldn't it? A total sum spent by every club member on receiving equipment just might be an eye-opener to other sources, also. Its sure uses are almost unending...from salable mailing lists to excise taxation, hi!

NEW MEMBERS - WELCOME!!!!

Edward McIntyre, Kansas City, Missouri
 John Gries, Bedford Heights, Ohio
 Ray Barrett, Annandale, Virginia
 John Ramsey, West Hartford, Connecticut
 Nils-G. Sandvik, Nykarleby, Finland
 William Wells, Livermore, California
 Bernard Pellet, Warehouse Point, Conn.
 W.Allison Capson, St.John,N.B., Canada
 Robert Gabbard, Livonia, Michigan
 David Rose, East Hampton, Connecticut
 Robert Byers, Gananoque, Ont., Canada
 Bill Migley, Lancaster, Ohio
 Peter Taylor, Coulsdon, Surrey, England
 Ian Lindley, Florence, So.Carolina
 Frank LaSelle, Montreal, Que., Canada
 Tom Alleman, Rochester, New York
 Earl Whitbeck Jr.,Saratoga Springs,N.Y.
 Roger Tardif, Meriden, Connecticut
 Robert Adkins, Kansas City, Missouri
 Robert Kozlarek, No.Arlington, N.J.
 Frank Barratt, Quebec City, Que.,Canada
 Meredith Porter, Media, Pennsylvania
 Hal Loewer, Cleveland, Ohio
 Colin Vos, Hamilton, Ont., Canada
 Leon M. Wise, Tiffin, Ohio
 D.E.Hodge, Knoxville, Tennessee

RENEWALS

Second year- Doug Edmonds, Edward Feith,
 Kanji Haitani, John Poepchian, Brad Hull,
 John DeSmith, Scott Moeller, Kim Elliott,
 David Deitz, Bob Chaffee II, Roger Horie,
 Jeff Dubin, Mark Mohrman, Chris Stark,
 Charles Orekar, Tony Smitka, Geoff Oates,
 Tom Burnett, James Daley, Daniel Evans,
 Walter Miscichowski. Third year- Norman
 Jacobson, John Zaharek, Gary Mickle, Paul
 Burns, Bruce Goldman, Stan Cabral, Robert
 Palmer, Trev Burke, Clarke Thacher, Carl
 Roberts. Fourth year- Warren Nordgren,
 Pete Feges, Dan Henderson.

ATTENTION!!

Will the following please complete and re-
 turn application forms (if already done so,
 disregard.) E.M.Leonard, Edward Tafel,
 W.R.Mitchell, Wallace Glavich, Leonard J.
 McQueed, Bruce Sebastian.

NOTE

Those members recently joining, who did
 not receive membership certificates, due
 we were out of supply, drop a note/card to
 Hdqs. Certif will then be mailed. Tnx!

CONTEST WINNERS

Results of NASWA Winter DX competition
 show that Bob Hegerman took first place
 in the Class I group; Glen Fauser won the
 Class II and Roger Camire topped Class III.
 Total points scores were 6825, 8107 and
 22,934.4 respectively. Our congrats to
 all three winners!

Other entrants and their scores; Class I-
 Ed Shaw 4312, Tom Williamson 760 and Don
 Kenney 269. Class II- Bruce Churchill 16890,
 Tom Upton 1105, Hank Michalenka 1058,
 Walter Fair Jr. 1001, Rudy Menna 840, Mark
 Mohrman 840, John Mraz 810, Rog Horie 31.5
 Class III had only one entry, Mr. Camire.
 Submitted logs showed that many Bolivians
 and Peruvians were heard, also Lake Tchad,
 Fiji, Papua and Yemen as well as other of
 the more rare DX catches. Some contestants
 complained about the shortness of the con-
 test period, others that the meterbands
 were not defined clearly enough in rules.
 Others pointed out that the time lapse
 between notification re the contest and
 the actual event was too close. Well bear
 with us fellows and we will try to smooth
 things out as we go along. Right now the
 annual Spring competition is being planned
 and we hope to come up with a good one.
 Complete data will be released in advance
 of the starting date so that more members
 might enter. We hope you will be one.
 So again congrats to the winners who will
 receive trophies suitably engraved...and
 tanks to all others who entered/supported.

George Schnabel, Contest Chairman

OVERSEAS MAIL GRM

Our members abroad are advised that the
 January edition of Frendx was returned by
 USPO due to embargo on all surface mail.
 Embargo was brought about by dockworkers
 strike. Said bulletins will be remailed
 as soon as strike is settled. We regret
 the delay/inconvenience (and extra work.)

WANT TO TAPESPOND??

Member Bill Flynn informs us that a DJ
 for Radio ECO (OAX8V), Sr.Rony Linares,
 whose address is Lores 457, Iquitos, Peru,
 wants to swap tapes of pop music. Anyone
 interested should first write him before
 sending tape. His DJ show can be heard
 nightly at 0200GMT via Radio ECO, 5010kHz.
 Let's all listen in!

ANARC Report, page 3...

Whoops. Must be getting absent-minded. As long as we're listing the more important Association Committees, must not forget the following;

The Frequency Recommendations Committee, headed by Roger Camire of Hudson, N.H. They advise broadcasters on the most advantageous frequencies for use in broadcasts to North America. Numbering six fulltime monitors, two parttime advisors and a telecommunications expert, this committee is the single most important effort to come about in terms of the Association's usefulness to international broadcasters. In the years of its existence, the FRC has advised dozens of stations, upon request, of the optimum freqs for use to North America. It has been especially helpful in the areas of QRMing broadcasters, and nigh each suggestion of the committee's has been adopted by the station seeking assistance. The FRC, serving with no financial rewards and purely in the interest of better communications between stations and listeners, has aided especially those stations whose financial status prohibit largecale commercial monitoring systems. To list here the stations following committee advise would require a full mimeographed page.

Ralph Irace's man of The Year Committee, which was recently mandated to give out more than the annual Convention man of Year Award three months ago and which we expect to hear from now and again with an award to a deserving DXer.

The Convention Site committee, headed by Bruce Reynolds of Missouri, is a group formed this year to choose the site for the next annual association convention. Whether this be a 68-69 only endeavor, or whether the comm. will stay on as a permanent part of the ANARC's makeup is not clear at this time.

Now, seeing that our rough synopsis of committees so rapidly turned into a complete listing of "things going on", is there any committee I've inadvertently skipped over? I think not.

And..just in case anyone should innocently ask "What's in the works" for the association, possibly items that haven't appeared here in detail; Ho boy. Where do we start? Rudy Menna's suggested worldwide DX Contest, to which the association and its EDXC Counterpart are braintrusting? How about The application from the New York State DXers Association pending? The appointment of Chris Lobdell of Reading Mass. to the QSL Committee as a special member with responsibility for French-speaking stations? How abt Larry Godwin's recent suggestion for a BCB International Contest (as vs. Rudy's idea of a SW one)? Add to that the recent Association decision to try getting club bulletins into the Library of Congress. The Communication Club of Williamsville New York requested membership, as do many of the wee clubs, and have been advised to wait untill stronger. Still up for grabs is Glenn Hauser's idea on the DX Archives. An ANARC Fund-Raising Committee has been proposed for a full year now. And the VOA is still remaining mum on our protests over discontinuance of local xmtr id's. There's still a rumbling underfoot to get the Loose Leaf Reference Book Committee going again.... many, many spurious and lengthy ideas, proposals and random thoughts that filter into the Association's Monthly Newsletter, but whish, untill they bear readable fruit, we feel may be superfluous here to Frendx readers. Space herein costs money to our non-profit organization, and it is this writer's thought that you would be more interested in the newer proposals than a line-by-line (often boring) dissertation of old issues & minor happenings. As always, though, your personal thoughts on the content of this report are solicited, carefully weighed and taken into consideration. We are deeply proud of the accolades and comments offered by members of NASWA, other clubs and ANARC officialdom in the years we have been doing this column. Your reaction to it is, and ever will be, the determining factor in the way in which this writer presents it.

73s again from Gerry Dexter, Bruno Colapietro and Doug Benson, Ye Ed.

QUESTIONNAIRE

For a number of months now, NASWA has been investigating possibilities of having all future Frendx done by offset printing instead of mimeo as at present. It has been found that such could be possible, provided members approve and are willing to pay a higher membership fee. The following questions therefore are asked so that club Hdqs and Board of Directors can a judge facts/data, pursue further action.

To date, the only information we can give is that proposed bulletins will be printed by offset method, will be approximately 5 $\frac{1}{2}$ x8" in size, will contain photo's, etc., and have minimum of 24 pages per issue. They will be mailed flat, not folded, and all via first class mail. Using this info a guide, please complete below and send to Hdqs.

Are you interested in NASWA having an offset printed bulletin? _____

Would you be willing to pay membership fee of \$10.00 per year? _____ If not, what is maximum amount you would be willing to pay? _____

Would you be satisfied with a 24 page bulletin? _____

Would you want new bulletins to contain same sections/columns as present Frendx? _____ If not, what would you prefer? Be specific.

How amny years do you plan to remain a NASWA member? _____

Are you now a regular - occasional - nonactive reporter? (Circle one)

Which section/column of present Frendx do you find most interesting? _____

" " " " " " " " " " " useful? _____

" " " " " " " " " " " helpful? _____

" " " " " " " " " " " less interesting? _____

" " " " " " " " " " " useful? _____

" " " " " " " " " " " helpful? _____

Give any/all comments you so wish on the matter/possibility of going to offset. If you need more space, use another sheet of paper.

Name _____ How many years have been in NASWA? _____

Address _____ Your present age _____

City _____ . Sate/Prov. _____ Country _____



SHORTWAVE BROADCAST CENTER

RICHARD E. WOOD, EDITOR, 1630 Ruth Place, Honolulu, Hawaii 96816. Deadline 10th.

STUDIO PALEMBANG

One very interesting station, and often quite well heard, is Studio Palembang. This is a regional outlet of Radio Republik Indonesia (RRI), located in the city of Palembang, which is the capital of South Sumatra. On a nominal frequency of 4855 kHz., currently observed as 4856 kHz., it is powered by a 10 kW Gates transmitter, and radiates on a three-wire folded-dipole antenna. The antenna is strung from the Northeast to the Southwest, so that the strongest lobes are at right angles, thus giving coverage to the length of the island of Sumatra, as well as to the Western end of Java.

The programming caters to local tastes, needs and cultures. Regional news bulletins are broadcast direct from the station, and national news is relayed from D Jakarta. One national newscast has been heard at 1400 GMT. Talks on politics and social events are given; on occasion they may be heard in parallel with other RRI regionals for events of national political or religious significance. Drama, poetry, Mosque and church services are aired, along with women's sessions, children's programs and rural broadcasts. Musical programming consists of Indonesian classical music and pops, as well as some Western classical and generally old popular songs.

Palembang's population is estimated at around one million, and is increasing rapidly. Lying between Palembang and the East coast are extensive oil fields, and there are now two large refineries in the city. One is operated by the Indonesian government, the other by Socony Vacuum. The city is being further industrialized with the addition, in 1962, of a urea fertilizer factory, which supplies one-fourth of the country's present needs. Rubber is very important, and a tire factory is now located here, as well as numerous other rubber mills.

As of December, 1968, the schedule of RRI Palembang is: 2230-0100; 0330-0630; and 0800-1500, G.M.T. The latter is heard in North America, with 1200-1400 perhaps the best time to try for this. On the West Coast, it may be possible to hold the signal until the 1500 s/off. The Director says Studio Palembang has received many reports from Sweden, Norway, Finland, the U.K., U.S.A., Japan, Malaysia, Australia and New Zealand. This is a very friendly station, and the director, M. N. Supomo, has a good command of English. When you hear this station with enough details for a report, send it, with four or five IRC's or 75 Rupiahs in mint stamps, to M. N. Supomo, Direktur, Studio Palembang, Djalan Merdeka 2, Palembang, Sumatera, Indonesia. Registered mail is advisable.

LAFAYETTE HA - 700

The HA-700 is a tube-type superheterodyne communications receiver manufactured in Japan for Lafayette Radio Electronics Corporation. It has been replaced in the latest Lafayette catalogue by the HA-600T transistor-powered model, which is otherwise similar, but it is probably available at many Lafayette retail outlets and should be available at an attractive price used also. Allied Radio offers an almost identical transistor-powered model A-2515.

The HA-700 covers .55 to 30 MHz plus 150 to 400 kHz and receives CW and SSB signals in all bands also. Power is through 6 vacuum tubes and 7 diodes. There is a tuned RF stage, two IF stages, and two 455 kHz mechanical filters. Tuning is via a conventional calibrated slide rule dial supplemented by a calibrated bandspread dial for 5 amateur bands and a G-100 logging scale for shortwave (see below). Controls include an antenna trimmer and S-meter, RF-IF gain control, automatic noise limiter (see below), and BFO control. There is a speaker output on the back of the set for a 4 or 8 ohm speaker and a headphone jack on the front panel. The set measures 7 5/8 in. high, 15 in. wide, and 10 in. deep, and is finished in grey with an attractive aluminum panel. Retail price at the time of purchase (Dec. 1967) was \$99.95.

Having moved this year, I have had a unique opportunity to use the set at near sea-level in South Carolina and at 2100 ft. in Virginia, and with several types of antenna. Ease of operation is excellent, particularly for the beginner, with all controls marked clearly and a complete instruction book provided. Knobs are large and knurled. Tuning is complicated by an ever-present tendency for the dial cord to slip with consequent "slippage" in dial accuracy. This problem renders the bandspread useless for calibration much of the time. The S-meter is sensitive and is a useful adjunct. The ANL circuit has no perceptible effect.

Selectivity and sensitivity are very good, particularly in the context of this set's price. All of the "powerhouse" stations and the more usual Latin American stations are received with ease plus some of the more difficult catches with a little extra effort and some patience.

In summary, the HA-700 is a good choice for the beginning DX-er. It should be available at an attractive used price and at a discounted new price at some retail outlets.

...D r. James W. Robinson

** ** * * * * * ** * * * * *

Galaxy R-530. To those of you who have asked, yes, the Galaxy R-530 has finally been delivered here, and I am beginning to form an impression of it. It is too early to give a definite opinion, but I will try to have a critical review as soon as possible, perhaps, all going to plan, in time for the next issue. REW

New USLA Head. Frmk Shakespeare, new USLA Head, replacing Leonard Marks, is the former head of the CBS international television program. Those of you, especially those abroad, whose voices may be listened to, still displeased with the "no local identification" policy, should try writing Mr. Shakespeare now. Perhaps a new man will bring a new policy, if we can get through to him.

Brazil in foreign languages. Brazil's national radio plans daily shortwave broadcasts in French, Spanish and English for listeners outside this Portuguese-speaking country. The magazine *Veja* says the aim is to influence foreign friends and sell Brazilian products. The broadcasts run (sic; assumed "will run", Ed.) 21 hours a week, with the Ford Motor Co. and the Brazilian coffee industry among the sponsors.

...AP, via Al Sizer

(Radio Nacional - a commercial station - is evidently meant. Present frequencies, from Brasilia, Rio or S. Paulo, are not too good for international coverage. RE!)

BEC - SPY STATION?

The USSR has accused the BEC of being a branch of the British Secret Intelligence Service, claiming that certain melodies and phrases broadcast by the station are used to convey messages to British agents and their European collaborators. The BEC's external service head, Maurice Lately, has described the accusation as "ridiculous", and foreign sources say that the Soviets are trying to scare the Soviet people into not listening or writing to the BEC, whose Russian broadcasts are already being jammed.

...Copley News Service, via Craig Koukol

*** ** ** ** **

QUESTION BOX.

Q. What are the best times to try for Greenland in the Middle West?
A. The frequency is 5980 kHz and the tuning signal goes on the air at 1027, which is probably the best time, if there is no interference (quite a big if). Sign-off has been reported fairly recently as 0230. The station was heard in Australia last year, and recently in Alberta. To aid identification, learn the sound of Eskimo by listening to CBC Northern Service, and of Danish by listening to Denmark.

*** ** ** ** **

TURKS ISLAND TALKS TURKEY

As a sequel to the November article on Turks Island, and at the suggestion of your editor, Al Sizer tried to persuade Peter Wolfe, the station manager, to put on a special DX program during darkness hours (the station is only on for five or ten minutes daily, at 1830 GMT, broad daylight, on 8000 kHz.)

Al had no luck but Wolfe did promise that he would be the first to know if broadcast schedules are changed or extended. Wolfe also extended an invitation to any NLSWA members who visit the islands to call on him: "I would be only too pleased to show them around the station and perhaps have a beer with them."

*** ** ** ** **

Hindi/English dispute hits AIR. According to a news item broadcast over Radio Australia, heated disputes and linguistic rioting have again broken out in India. At issue this time is the timing of English and Hindi news broadcasts on All India Radio. At present, the main national and international newscasts are broadcast in English on the full hour (half-hour GMT), the chief morning bulletin being at 8 a.m. and the evening bulletin at 9 p.m., Indian Standard Time. They are followed by a Hindi translation of the English news.

Linguistic nationalists demand that the Hindi news be given the prime time slots and the English broadcast fifteen minutes later. REW

*** ** ** ** **

Welsh Protesters seize BEC Studios. About 30 members of the Welsh Language Society seized the newsroom of the BEC Cardiff studio Friday night in a protest contending BEC slights the Welsh. A similar sit-in was reported in North Wales. A BBC spokesman said the demonstrators, including young girls, had barricaded themselves inside. The demonstrators stuck up posters in Welsh inside the studio reading, "Hours of the BEC. English-480 hrs. Arabic-80 hrs. Welsh-18 hrs." Another poster called for a Welsh-language channel for Wales. In North Wales about 50 people walked into the foyer of the BBC studio at Bangor, sat on the floor and said they were staying all night. They also put posters on walls demanding more Welsh language programs.

...AP, via Rod Williams

RADIO FREE EUROPE?

Washington—One of the many loose ends left by the lame duck Johnson administration for President Nixon to tie up poses an acute problem of credibility on a most sensitive and difficult issue: clandestine financing of Radio Free Europe.

There is scarcely any doubt that the Nixon administration will maintain the hefty U.S. subsidy, size unknown, that is funneled through the Central Intelligence Agency (CIA), to provide almost all the financing for Radio Free Europe's massive propaganda effort beamed to Communist Eastern Europe. The question Nixon must decide is whether to maintain the subsidy under the table or to bring it out in the open...

The 18-year history of RFE is a classic case of the credibility gap. Its own literature has described RFE as "financed through tax-contributions in the United States." Such contributions were solicited over American television through the years, in appeals designed to give the impression that RFE's continued existence was at stake.

The facts were considerably different. Public contributions did not meet a small fraction of the cost of RFE's main operation in Munich and its transmitters in Munich, Lisbon and Heidelberg beaming broadcasts to five Eastern European nations—Bulgaria, Czechoslovakia, Hungary, Poland and Rumania. The vast proportion of its costs was met by the U.S. taxpayer in the form of secret payments from the CIA. A smaller CIA subsidy covered the costs of the more modest Radio Liberty, in Munich, aimed at the Soviet Union.

This arrangement was undisturbed until the 1967 exposures of clandestine CIA subsidies for the National Students Assn. and other supposedly private organizations. When Pres. Johnson named Under Secretary of State Katzenbach to head a special committee to study the problem, CIA's subsidy to RFE came under high-level scrutiny for the first time.

At one point...Katzenbach seemed inclined to end RFE's subsidy...raising apprehensions among highly responsible students of Communist Europe both inside and outside the State Department. They pointed out to Katzenbach that in the dozen years since the tragedy of the 1956 Hungarian revolution, Radio Free Europe had halted all appeals for violent overthrow of Communist rule and instead advocated peaceful liberalization of Red regimes. In fact, RFE's young staff researchers often seemed more interested in E-W bridge building than did hardened old foreign service officers in State.

Most important, apart from the BBC's excellent overseas service, RFE provides most E. Europeans with their only reliable information about what's going on in their own countries (in contrast with the dismal programming to E. Europe by the Voice of America, the official U.S. government agency.) Consequently, although Katzenbach's report a year ago recommended an end to all CIA secret subsidies, he has permitted continued financing of RFE and Radio Liberty from CIA funds, with one change in the direction of credibility: a demand that RFE cease its misleading appeals for money on television...

With some of Nixon's financial supporters among RFE's sponsors, the subsidy will assuredly continue - in one of three forms: (1) as a secret CIA contribution not acknowledged by the government; (2) as a CIA contribution whose existence is announced but size not disclosed or subjected to congressional scrutiny or (3) as a regular congressional appropriation subject to normal congressional procedures. The last would be most difficult, perhaps eroding RFE's influence by underlining dependence on US tax funds and subjecting its quasi-public operations to the same congressional dead hand...as Vol. This shows...credibility is not always...even desirable. Excerpted from Inside Report by Rowland Evans and Robert Novak, via Hank Michalenka.

FRENCH BROADCASTING IN LATIN AMERICA

While it is not widely known that several million people in Latin America call French their mother tongue, it is astonishing to learn that commercial interests have built a French-language station of 200,000 watts on a tiny British island in order to tap a market represented by only 600,000 people living on two adjoining French islands. Thus big Radio Antilles on Montserrat joins the effort of 20,000 watt Radio Caraïbes on St. Lucia to the south of French-speaking Guadeloupe and Martinique in the chain of small islands north of Trinidad called the Lesser Antilles. These two islands, and minuscule French Guiana, pop. less than 25,000, comprise the only segment in Latin America to have a government radio monopoly excluding commercial radio. While the program content is often of the highest value from a cultural standpoint, the islanders complain that the government radio was on the air only a few hours each day, the performers and technical standards were poor, the programs old, and the local color almost entirely lacking. All that is changing now that competitive commercial stations are on the air from neighboring British islands with crack disc jockeys hired from Radio Monte Carlo and Radio Luxembourg.

Haiti has the largest population of French-speaking people in Latin America. However, scarcely 10% of the four million people can read or write French, though it is the official language, in which all children in schools are taught. Not 15% can understand French, though it can be simplified and spoken very slowly on the radio. The real language, Creole, though derived from French is far removed from the grammar of Paris...Radio has been an opportunity for people to hear French spoken properly, and only recently have the Creole-speaking masses begun to buy radios. No station in Haiti has ever had a Creole format, as far as I have been able to learn, but use varying ratios of French to Creole programming, even the most sophisticated using Creole for comedy. As the number of stations has grown to a reported 22, some ten of which are in the capital, so has specialized programming. All but five are of less than 1,000 watts power, including the government station...

While the French islands can boast a radio in almost every home, and Haiti's city dwellers are almost within earshot of a blaring set, wherever they go, the small town and country dwellers who comprise 80% of the population have few. Not one home in ten has one. A radio is often found with travelling sales people, and often in shops at remote market centers. With only three daily newspapers (four to eight small pages), whose combined circulation would scarcely equal 4,500 copies, the only effective news media in Haiti is radio. Control of news content by government agencies makes the population reluctant to buy radios with no short-wave band. Thus radio is an effective and potentially dangerous media of communications in French-speaking Latin America. Missionary stations in Haiti have been cited for their spectacular contribution to public health, and have been the object of national attention at times of hurricane danger and disaster. Staying on the air after power failure had put all others off, they have been able to maintain contact with the outside world and to assure national coverage with vital information. The Haiti Red Cross asked to make Radio Lumi ère its emergency headquarters in the event of another hurricane disaster.

The Roman Catholic church has had at least three stations in Haiti beginning before 1946. The last one was a modern 1,000 watt Jesuit-run expensive installation in the capital (Radio-Monrèse. REW) Political intrigue was the reason given for its seizure and destruction in January 1964. A small transmitter still functions occasionally to broadcast the mass on 6100 kHz. in Cap-Haitien from the bishop's residence (La Voix de l'ave Maria. REW) The West Indies Mission's Radio Lumi ère went on the air 1958, 4VEH ten years earlier.

OPTICAL ILLUSIONS?

If the Post Office Bill, recently before Britain's House of Commons, becomes an Act, it may be illegal to look at anyone through spectacles in a public place.

It might also be an offense for a police car to sound its siren, or a shop to test its burglar alarm. Conceivably, it could be punishable to play pop records through a loudspeaker, or on a taperecorder.

The Bill - which looks like becoming another little headache for the Postmaster General - was published fourteen days after an advertisement in the Times announcing the first optical broadcasting station, a system which transmits and receives on light rays instead of sound waves. The intending broadcasters, who call themselves Radio Love, believe that the Post Office rushed some extra and alien clauses into a Bill which was principally concerned with setting up the GPO as a corporation. "We believe the intention was to block optical broadcasting," ...said David Williams, one of the founding fathers of Radio Love. "But it looks as if they were in a great hurry, and accidentally they've made all sorts of communication illegal."

The relevant section is entitled Exclusive Privilege of the Post Office with regard to Telecommunication. It reserves for the GPO exclusive power over systems for "conveyance through the agency of electric, magnetic, electro-magnetic, electro-chemical, or electro-mechanical energy" of speech, music and other sounds, visual images, and assorted information,

Williams is quite right in assuming that the Bill is an attempt to quash his free radio before it even starts. The Post Office admits as much. An official ...said: "If the Bill becomes law it certainly could be used to control transmission by light-waves."

...It wouldn't be illegal to transmit and receive light through the human eye. This, you might think, is big of them. But the wording actually says "by the eye and nothing more". Williams takes this to mean that the wearing of glasses in public would therefore have to be licensed by the Post Office if the Act is passed. Also, he argues, you'd need a ticket to use binoculars or telescopes.

As for burglar alarms, hooters, loudspeakers, even automatic light dippers on card, these are all forms of communication operated variously by electrical and magnetic energy. They'd need a license to operate too.

"They've made a muddle of the phrasing of the clauses in their hurry to block us in time," says Williams. "I should think they'll have to change the wording. But our message is that the GPO is trying to seize power over this new medium of optical broadcasting. We visualize optical radio stations subject to the same laws that govern the Press. There is absolutely no reason for other controls."

...Sunday Times (London)

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DX CALENDAR

On national festivals, radio stations often extend their schedules. Especially in Latin America, this may give DX-ers a chance to log these stations. We will be featuring some important dates, from time to time.

January 26 - February 27 Carnival (Roman Catholic Countries).

February 4 - Independence Commemorative Day - Ceylon.

February 24 - 26 Carnival, Rio de Janeiro, Brazil. (This is reflected on radio.REW)

February 25 - National Day, Kuwait.

February 27 - Independence Day, Dominican Republic. ...Gerry Dexter

AWARENESS OF SWBC IN THE PUBLIC MEDIA

One of the few newspapers which has a consistent record of publication of occasional features on shortwave broadcast radio is the Christian Science Monitor of Boston. The following clipping, sent by Al Sizer (one of our NASWA members himself an active pressman), makes an interesting proposal which should be made by interested members to their favorite newspaper; and, although some time has elapsed since the letter appeared in the December 19, 1968, Monitor, NASWA'ers who take, or might consider taking, the Monitor, should consider writing the Editor, endorsing reader Smith's proposal. Public awareness of SWBC is definitely growing, and a newspaper of such standing as the Monitor could help our hobby greatly.

"Letters from America"

To the Christian Science Monitor:

In the Nov. 29 issue, your reviewer states that Alistair Cooke's "Letter from America" broadcast may well influence the rest of the world, but not America: "...the only continent not beamed into his programs."

Anyone with a short-wave-equipped radio (and an estimated 15% of all receivers in the U.S. are) can hear Mr. Cooke exert his "gentle tyranny" every Monday evening at 6:45 e.s.t. over the BBC World Service, beamed to North America on frequencies of 11.78, 9.58, and 6.11 megacycles (25, 31 and 49 meter bands respectively).

In 14 years as a short-wave enthusiast the only material I have found for the "average" s.w. owner and listener, has been in specialized magazines with articles written in very technical language, and, unfortunately, with reception and program information that is hopelessly out of date.

The solution is for a newspaper to present a regular, short feature, in everyday language, on the many aspects of international broadcasting, including, of course, the how, when and where to listen, and what programs can be heard from the many hundreds of stations on the air.

The Monitor, being an international paper and having the avowed intent of promoting better understanding in the world, would be the perfect publication for such a column.

Stephen E. Smith

Binghamton, N.Y.

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NBC, Benin City. The Nigerian Broadcasting Corporation, Benin City, uses a Marconi transmitter BD268A with 10 kW output on 4932 kHz. It is feeding a simple folded dipole aerial. The hours given in the 1969 WRTM are wrong. The correct times NBC Benin is on the air are 0430-1230 and 1400-2230 GMT. This information was received from L. Salami, acting for the Engineer-in-Charge, Mid-West Region, at the station in Benin City.
...Richard Murphy

Clarification of Soviet situation. Thanks to the determined efforts of NASWA members, more light is being shed on the previously dubious question of Soviet transmitter locations. A very nice post-card verification from Alma Ata, in Russian, received by Alan Roth of Connecticut is before me as I write this. Translating: "Dear Mr. (the non-communist term "Gospodin" is used...a very pleasant surprise) Alan H. Roth!
"In answer to your letter of July 22, 1968, the Kazakh Radio confirms the correctness of your reception of our broadcasts on frequency 9380 kHz. Sincerely, (unr. sig.)"
Exact transmitter locations and powers of all Radio Moscow's tx's in the foreign service are registered with IFRB and may be obtained from IFRB publications. The Gilfer band surveys reflect these accurately. These, and direct verifications such

INDIAN DIALECTS IN BOLIVIA

In books and other information sources on Bolivia it is unusually reported that Spanish is the country's language. Contrary to the situation elsewhere in Latin America, however, Bolivia is perhaps the only country where most natives do not speak it as their native language. Several Indian dialects are widely spoken and preferred in most parts of the country, comprising together more than half of the total population. These age-old dialects are direct remnants from the ancient Inca empire. The people have maintained their everyday language, although the schools daily teach Spanish to all children. It has to be learned as one more subject. It is needed for business and rated as a high-class language worth learning, besides being the official language of the country. But really only 20% of the population speak it as their main language. For this reason, almost everybody is bilingual in Bolivia.

Quechua is the main dialect. At least 50% of the population speak it fluently as a major native tongue. And it is natural that many radio stations should broadcast many hours of their daily time in this dialect as a way of reaching the people with programs and especially advertising. Best hours are usually early in the morning (around 8 a.m., some stations in the main cities change to Spanish) or in the evening. Cochabamba, the most important city in the agricultural region, is the center of the area from which this dialect radiates to other places, and where it is difficult to find anyone who does not speak it. Other departments speaking Quechua are Chuquisaca, where the capital city of the country, Sucre, is located - La Paz is the seat of government - and Tarija in the south, also agricultural places. One fact which has spread the dialect is that many natives from the Cochabamba area have moved elsewhere to seek new opportunities, mainly to the east, to work in sugar mills, mines, or in tropical fruit production. Potosí and Oruro, important tin mining places, also speak this dialect.

Aymará follows in importance as a native tongue, being spoken by 20% of the population, mostly near La Paz; then follow Guarani, near the Paraguayan border, in the department of Santa Cruz, Aracauno, near the Chilean border, and Guarayo and Yura, in the north and north-east, in Beni and Pando departments.

Stations with programming in Quechua and Spanish:

In Cochabamba: R. San Rafael, R. Nacional LAB, R. Cochabamba, R. Cultura.

In Potosí: R. Indoamérica, R. Pio XII, La Voz Mincra, R. Sumac Orkko.

In Sucre: R. Loyola.

Programming in Aymará, Quechua and Spanish:

In La Paz: Emisora del Estado, R. Méndez.

In Oruro: R. Universidad.

Programming in Aymará and Spanish:

In La Paz: R. La Cruz del Sur, R. El Cóndor, R. Amauta.

Programming in Guarani and Spanish:

In Santa Cruz: R. Grigotá.

Other stations broadcast in Spanish only.

Acknowledgement to Mr. Fortunato Quispe, a Bolivian citizen now working at the same place I do, for his kind help in the preparation of this article.

...César Cbjlo

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Your contributions - keep them relevant to shortwave broadcast, please - are always welcome. Please type them, with double spacing. Comments and suggestions, too. REW

LA VOZ DEL TRÓPICO

La Voz del Trópico, HIL, was one of the first stations installed in the Dominican Republic. The exact date was April 22, 1932. It was founded by its owner Mr. Joaquin Custals, the son of a Spanish family which was living in this country. The frequency used was 790 kHz, the same one still used today, with a power of 50 watts in a homemade transmitter, situated on the second floor of 149 Avenida Mella. At this time there were in Santo Domingo two more MW stations, HIJ, belonging to Tuto Báez, and the other, HIX, a government station. HIL and HIJ were supported by their owners and maintained as a hobby, operating with a schedule sometimes from around 10 a.m. to 10 p.m., most of the time daily, but their transmissions had to cease when HIX, the official station, signed on, so that government news could be heard. HIX was not regularly on the air; they would sign on sometimes in the evenings and two or three days a week without any previous announcement. La Voz del Trópico had no speakers or advertising, Mr. Custals and his friends worked at the station just for the fun of it. He had to work elsewhere to make a living and keep the station on the air. Advertising was not obtained until after many years of operation because Dominican businessmen did not realize their sales advantage, and because of this, progress in broadcasting was very slow.

After various moves, around 1950 a new concrete building was erected to house the station at Abreu 30; the transmitters were moved to Arroyo Hondo (km. 5, Carretera Duarte), a place outside the city limits, at this time. A homemade short wave transmitter on the frequency of 5055 kHz was added around 1934 with 100 watts, which remained in operation until around 1954. In the meantime, MW power was again increased to 3 kW.

When Rafael Trujillo, the late dictator, was killed in May 1961, La Voz del Trópico was the only station which started criticizing the remnants of the dictatorship, urging the people to fight them in order to get rid of the regime once and for all after its 31 years' total rule over the country. This was an unusual and bold action at the time, when everyone was still afraid of possible retaliation.

Also 1963 the station undertook a publicity campaign ^{to expose} ~~for~~ the leftist inclinations of President Juan Bosch, who was later overthrown, on September 25. But on April 24, 1965, when the civil war broke out, the station was assaulted by mobs, as were other anti-communist organizations, as a result of their anti-Bosch campaign. All equipment was stolen or destroyed and the station had to get new equipment, which was used at the transmitter site at Arroyo Hondo, outside the rebel zone. The Abreu 30 site was occupied by the rebels during the civil war. When the Provisional Government took office in Sept. 1965, the Inter-American Forces took over the place and held it until Sept. 1966, when it was delivered to the Dominican police, which still occupies the place. Despite all Mr. Custals' efforts, he has not been able to recover it, but has been offered another place instead, an offer which has not become a reality up to the present time.

Around May 1968 a new move took place, to Ensanche Neto, a new residential section which sprang up on the grounds of the old Santo Domingo airport as a result of the civil war, since many people afraid of the fighting moved far away from the business district. At this place a new building was erected to house the studios and offices much more comfortably. Address is Calle Rafael Sánchez Sanley 38, but all the best mailing address is Apartado 335.

A new shortwave transmitter will be added very soon on the usual frequency of 5055 kHz., with a power of 5 kW. Daily operation is from 5 a.m. to midnight. Director is Mr. Vinicio Portalatin, who promises to answer all correct reports and is preparing a new QSL card for prompt answer. No IRC or stamps needed. All this information was kindly furnished by the owner, Mr. Joaquin Custals.

KNIGHT-KIT STAR ROAMER

The Knight-Kit "Star Roamer" is a 4-tube, single conversion superheterodyne receiver made by Allied Radio Corp., Chicago. It covers 5 bands- 200-400 kHz, 550-1800 kHz, 1.8-4.8 MHz, 4.8-12 MHz and 12-30 MHz. It sells for \$39.95 and is in kit form.

The converter section of the Star Roamer consists of a 6BE6 tube producing an IF of 455 kHz. The IF is amplified by a 6HR6. The detector consists of a crystal diode. Audio is amplified with a 12AX7 audio amplifier and a 6AR5 (or 6AK6) audio output tube.

This receiver has many controls for its price range: power, AVC, and ANL switches, volume, sensitivity, (BFO), band selector, main tuning, bandspread and antenna trimmer. The power, AVC and ANL switches were originally slide switches. After wearing out two of them, I replaced them with toggle switches. The bandspread was originally not very selective. I improved its selectivity by installing a geared vernier dial with an 8-1 ratio on the bandspread. I have installed a tone control which is an aid in cutting out high frequency QRN. It is also handy when listening to music.

The set takes about 15 hrs. to build. The instruction manual is very clear and detailed.

The set's initial alignment is quite simple and can be done quite accurately without test instruments. WWV can be received quite well on all frequencies. The metal cover must be removed in order to align the receiver. The built-in S-meter is accurate enough to permit alignment of the IF transformers without test equipment provided you are able to receive a MW station powerful enough to move the S-meter.

The built-in ferrite rod antenna provides relatively poor MW reception in rural areas. Reception can be greatly improved, however, by wrapping the lead-in from your SW antenna around the ferrite rod before connecting it to the set.

The long wave (200-400 kHz) band is absolutely worthless where I live. I imagine it would work better in coastal areas.

The sensitivity and selectivity of the SW bands are rather limited, but all of the larger S WBC stations come in without difficulty. The set comes with a built-in 4" speaker which provides fairly good sound reproduction. To improve the sound I have installed an external speaker jack to which I have connected a used, 8 ohm, 10" Westinghouse TV speaker which works very well. There is also a head-phone jack on the front panel of the receiver. The ANL works quite well to cut out QRN, but it does hinder the overall efficiency of the receiver. The AVC works very well.

The power supply is fused, contains a selenium rectifier, and is transformer-operated for efficiency and safety.

SUMMARY: Despite the drawbacks that the Star-Roamer contains, there is, in my opinion, no set equal to it for under \$50. I strongly recommend it for any beginning SWL-er or any SWL-er with a very limited budget.

...Gary A. Galo

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How to Listen to the World. Deadline for articles to reach Hellerup was Feb. 1, and the publication can be expected in late spring. It will sell for \$3.95. A must for all.

An item from Bill Matthews: - Voice of People of Thailand. Drew Pearson in his "Merry-go-round" states, "An underground radio, which calls itself the 'Voice of the People of Thailand', also broadcasts out of Yunnan...merely an echo of the harangues heard in S.Vietnam..."

DX-ing Harmonics (Continued from January Trendx)

Q. One editor has claimed that since harmonics "cannot be verified", it's pointless to DX them. Is this true?

A. Not unless your only goal in DX-ing is to plaster your wall as rapidly as possible. The truth is, some stations will, some won't. Some will not believe that anyone could possibly hear their harmonics. Others will not admit that their equipment is faulty or obsolete. Some stations are quite helpful and interested in harmonic DX reports. A few excerpts:-

From the BBC: "The rated limit of radiation on any harmonic frequency from our new 250 kW senders is 250 milliwatts, although we try to get down to 50 milliwatts. These figures are in accordance with the Radio Regulations. As installation work is still in progress in Ascension (May 1967, GH) it may be that the limit is exceeded temporarily on occasions, but I doubt very much whether more than a watt or so of harmonic power is ever radiated, and this will soon be cleared up."

From the VOA: "It would be difficult to estimate the actual power radiated on the 30,860 KHZ harmonic of our 15430 KC transmission... Normally, however, the harmonic filters within the Greenville transmitter suppress harmonics by more than 80 decibels. As you state, however, at this power and antenna gain, there still could be sufficient signal to be received under suitable conditions."

From Deutsche Welle: "For the observation resp. the reception of the 3rd harmonic we have two explanations. It could have been that you really received the third harmonic which, however, is quite improbable. The radiation power for the 3rd harmonic is 25 milliwatts, that means that the attenuation is 66 db. The 2nd possibility is that your receiver input, i.e., in the first RF stage, the 3rd harmonic of the frequency 9765 kc/s. is formed." (The station was not audible on 9765, nor were other nearby 3lm stations audible where their 3rd. harmonics would fall. GH)

From the CBC: "The power we radiate on harmonics of certain of our frequencies depends of course on a number of variables, as you are aware. On our second harmonic, we radiate about 5 - 10 watts. This would be enough to propagate over long distances during the top half of the sunspot cycle, especially over night-time transmission paths."

From WNPS, 1450, New Orleans LA: "We have checked our logs and are fairly sure you heard us as described... Now here is the incredible part of it, Mr. Hauser. We are a 250-watt, 24 hr/day station. If my 50 db figure is correct, we are putting into our 2nd harmonic .0025 watts. We will continue to check carefully to see if we have a problem...."

From KREO, 1400, Indio CA: "I suspect that you may very well have picked up our fourth harmonic on 5600 kc. as...the FCC Monitoring Station in Livermore, Calif., was also getting us at the same time, as was the control tower at San Francisco International Airport. (5604 kHz, GH) You no doubt can no longer receive our harmonic because I installed a 5.6 Mc. wave trap at the tower."

While most of the stations above hedged to one degree or another, it remains for a utility station to provide the most definite "confirmation".

From WWVH, Hawaii: "What you...hear occasionally on 30 MHz when conditions are optimum for this frequency is the 2nd harmonic of our 15 MHz transmissions. We estimate that we are transmitting approximately 2 watts of power on 30 MHz."

Q. What stations are the "best" harmonic-producers?

A. Radio Habana Cuba takes the cake. It's obvious they simply don't care how strong their harmonic radiation is. Despite their disclaimers, the BBC has actually been monitored on more harmonic frequencies than R. Habana. All in all, I've logged over

DX-ing Harmonics (Continued)

30 harmonic countries. The list (in next month's bulletin) covers all broadcast harmonic frequency stations monitored in the past two years from my QTH's in New Mexico, Oklahoma and Colorado.

Q. Does DX-ing harmonics serve any useful purpose?

A. Yes, indeed. Harmonics can be extremely useful in bringing to light new fundamental frequencies, even new stations. Also, with some receivers, fundamentals can be measured more accurately than would otherwise be possible, via their harmonics. When R. Reloj de Costa Rica first abandoned its 6200+ channel for one within the 49 m.b., I first heard it on 24265 kHz., and later in the evening confirmed that the fundamental was 6066.25. I knew it had to be this from dividing the 4th harmonic by four, although I could actually measure the new fundamental down to only the 6066-6067 area. DX-ing harmonics also increased your chances for hearing more different broadcasting organizations, which may transmit at unfavourable times for their fundamentals. If you're a student of propagation, and any serious DX-er must be, there's nothing like harmonics to indicate when a given band is "wide open". Harmonic DX openings can be correlated with DX in nearby ham or broadcast bands.

But most of all, harmonic DX-ing is the only consistently low-power DX-ing mode. Imagine having a band set aside for nothing but stations with powers under 100 watts, often below even 1 watt! Since all harmonic stations are inherently low-power, different standards must be applied in comparing "how good" the catch is. For example, VOA Greenville may be as good a harmonic catch, or even better, than some Central American harmonic, whose actual harmonic power may be greater than the VOA's!

The SWBC Center Editor and I hope that all of you who have adequate equipment will try harmonic DX-ing, and report your findings.

...Glenn Hauser

WHERE THE HARMONICS COME FROM

constructed by Glenn Hauser

By consulting this table, you can tell at a glance which SWBC bands may be producing a harmonic heard on a given frequency. Simply divide by the appropriate harmonic numbers to find the possible frequencies of the fundamentals. Usually all but one can be eliminated because they are not "even", ending in five or zero. If this fails, then it is possible the fundamental is out-of-band. While the higher harmonics of the 90m and 120m bands are very unlikely, they are included for the sake of completeness. (I have bracketed these, Ed.)

kHz	harm	fund. m. b.	kHz	harm	fund. m. b.
4600-5000	2	120	(16100-17500	7	120)
6400-6800	2	90	17850-18600	3	49
6900-7500	3	120	(18400-20000	8	120)
7800-8000	2	75	19000-19550	2	31
9200-10000	4	120	19000-20240	4	60
9500-10120	2	60	(19200-20400	6	90)
9600-10200	3	90	19500-20000	5	75
(11500-12500	5	120)	(20700-22500	9	120)
11700-12000	3	75	21300-21900	3	41
11900-12400	2	49	(22400-23800	7	90)
(12800-13400	4	90)	(23000-25000	10	120)
(13800-15000	6	120)	23400-24000	6	75
14200-14600	2	41	23400-23950	2	25
14250-15180	3	60	23750-25300	5	60
15600-16000	1	75	25000-24800	4	49

the Harmonics come from(Continued)

kHz	harm.	fund.m.b.	kHz	harm.	fund.m.b.
25600-26800	8	90)	28500-30360	6	60
27300-28000	7	75	(28800-30400	9	90)
27600-30000	12	120)	29750-31000	5	49
28400-29200	4	41	(29900-32500	13	120)
28500-29325	3	31	30200-30900	2	19

Harmonics don't stop at 32 MHz.; if your coverage extends higher, extend the list.

AREAS FREE OF SWBC BAND HARMONICS

4600	5000-6400	6800-6900	7500-7800	8000-9200	10200-11500
12500-12800	13400-13800	15180-15600	17500-17850	20400-20700	

...Glenn Hauser.

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Pidgin English Competition still on. No complete solution has yet been received for our fun competition published in the December issue. Try reading the Pidgin out loud. Remember that the verbs end in -im. It contains information of interest on the building of a new station in New Guinea. On the face of it, Pidgin may look strange, but it is really very easy. So send those entries in!

Bonaire studio complex complete. The majestic studios of Trans World Radio, Bonaire, have now been inaugurated. They were erected to the north of Kralendijk, Bonaire's pocket-size capital (known to the inhabitants as "Playa", the beach ...a little easier to pronounce than Kralendijk.) It incorporates the latest in studio design and engineering. There are 80 staff members working there. Their live voices, however, will not be heard, as every program, including news, is pre-recorded on tape. The objective in this procedure is to insure quality production as well as programming. (But robs the programs of life and makes for some very bored broadcasters, as I observed when on Bonaire. Ed.) The studio building is constructed with two floors. On the first floor is the control room for feeding programs to the transmitters. Next to this is the tape traffic department where all tapes are processed and stored for future use. Adjacent to this is a small news room where two teletype machines give adequate news service. There is a workshop for maintenance and repair of the equipment. The studio was erected directly opposite the Casino, an interesting confrontation. ...Information from ICB Bulletin.

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SW Center Questionnaire. Your SWC Editor would like your opinions, to guide future article publishing policy. Please detach this (or copy it), fill it in on both sides, and send it to: NASWA SWC Editor, 1630 Ruth Place, Honolulu HI 96816.

Articles enjoyed: (please check, or comment in words, or name specific articles)

- On large international broadcasters _____
- On smaller, rarer stations _____
- On broadcasting in one country/area _____
- On clandestine, pirate stations _____
- Brief items of station news _____
- History of broadcasting _____
- On programs (Happy Station, etc.) _____
- Biographies, personal features _____
- Personal experiences, station visits _____
- Studies on listening in 1 country _____
- Propagation studies _____
- Band surveys _____
- Question box _____

(Over)

VOICE OF AMERICA - THE WHY AND THE HOW

Seventy-nine days after the attack on Pearl Harbor, the Voice of America, as USIA's radio operation is called, first went on the air. Its mission was to explain to the world at large why America was in the war, for what we were fighting, and to combat enemy propaganda.

Before Pearl Harbor the U.S. was far behind the other major powers in the field of international broadcasting. By early 1942 the Axis was broadcasting to the world over a large network of high power transmitters. The United States possessed a dozen SW transmitters operated by five commercial companies. These formed the nucleus of the Voice of America's network when it began broadcasting on February 24, 1942.

In the ensuing 26 years, the Voice has come of age. Forty-one transmitters in the United States range in power from 50 to 500 kilowatts. Overseas, USIA has 61 transmitters ranging in power from 35 (actually 8, Ed.) to 1,000 kilowatts. These facilities are strategically located to provide effective coverage of all important target areas in the world.

In developing a global radio network, three major technical problems had to be resolved. The first of these was to overcome the deterioration of the signal that occurs in broadcasting from the United States through the auroral zone to East Europe and Asia. The second problem was that of overcoming the vast distances between the U.S. and other major areas of the world with a signal strong enough to be heard competitively in those areas. The third major problem which had to be overcome, or at least alleviated, was Communist bloc jamming which, since 1948, had sought to prevent clear reception of USIA broadcasts in the languages of the USSR, the satellite countries, and more recently China and Cuba.

Wartime experience proved that effective worldwide broadcasting required an integrated network to resolve these problems. Creation of such a system was found to be contingent upon long range planning and piecemeal development was considered to be impractical. In developing its worldwide broadcasting system the Agency has adhered closely to the technical philosophy of considering the performance of such a system as a whole. A key to this system is the use of overseas relay stations located where maximum advantage of radio propagation conditions can be taken to overcome the problems of direct SW broadcasting from the U.S. The relay stations are integrated into a single system so they can receive programs direct from the U.S. or from other relay stations. A network of feeder facilities, consisting of 40 high-power SW transmitters, has been created in the continental U.S.

The majority of broadcasts originate in Washington, D.C., where there are 23 studios, a central recording control capable of producing 40 simultaneous recordings, Master Control capable of selecting material from 100 sources and feeding 26 programs simultaneously, offices and the newsroom. ...USIA

QUESTIONNAIRE (Cont. from overleaf).

- Equipment reviews _____
- Broadly technical articles _____
- On individual reception phenomena _____
- On antennas _____
- On preselectors, accessories _____
- On languages, station identification _____
- Report & follow-up forms in languages _____
- Hints on reception techniques _____
- Hints on verification _____
- Stories, poetry, jokes _____
- Quizzes, competitions, crosswords _____
- Your suggestions: _____

QSL REPORT

GREGG CALKIN - EDITOR
 402 NEEDHAM STREET
 FREDERICTON, N.B., CANADA



SCOREBOARD

Our SCOREBOARD this month, the first of 1969, puts the limelight on EUROPE. With every succeeding SCOREBOARD the number of our members represented in it grows, and this is, of course, our objective. If your name does not appear in the following list, why not drop your editor a line today, stating the number of countries heard and verified (HIC/VIC), the number of stations heard and verified (HIS/VIS) and the number of countries heard and verified per continent, with the name of your best or most prized verification in each continent, with its frequency.

N°. Reporter/State/Province	HIC/VIC	HIS/VIS	EUROPE		EUROPEAN PRIZED/kHz
			HIC/VIC		
1. Don Jensen, Wisconsin	198 194	--- ---	35	33	Polish Pathfinders 7306
2. Bob Padula, Australia	196 183	-- 1747	35	35	Radio Riga, Latvia 7140
3. Barry Williams, New Zealand	192 180	-- 1792	36	34	LkJ, 6130 kHz
4. Gerry L. Dexter, Wisconsin	182 179	709 490	36	35	R. Renascenca, 6154 kHz
5. Bill S. Sparks, California	179 172	--- 390	33	33	Radio Riga, Latvia, 7140
6. Jan Tunér, Sweden	176 148	--- 390	38	32	R. Shkodra, 8215 kHz
7. Dan Henderson, Maryland	175 145	--- ---	34	31	Radio Minsk, 5920 kHz
8. Alan H. Roth, Connecticut	172 155	452 332	34	33	Reykjavik, Iceland, 11780
9. Wendel Craighead, Kansas	171 153	--- ---	33	29	NHBI/Athens, Greece 15345
10. Richard Wood, Hawaii only	171 92	565 167	33	16	R. Luxembourg, 15350 6 kW
11. Roger Camire, New Hampshire	169 99	--- ---	37	29	R. Des Vallees, 6305
12. Marlin A. Field, Michigan	166 153	534 386	40	39	R. Luxembourg, 6090 kHz
13. Gregg A. Calkin, N. B.	157 142	310 178	34	33	Tallinn, Estonia, 6085 kHz
14. Beli-Matti kuparinen, Finland	157 124	250 171	34	33	La Voz de Andalucia, 6280
15. Edward Shaw, California	150 121	227 174	31	29	Belgrade, Yugoslavia 7200
16. Keith kwiecien, Nevada	150 90	160 90	30	20	Andorra, 5995 kHz
17. Del Hirst, Texas	148 97	335 101	29	22	Radio Denmark, 9520 kHz
18. Bruce W. Churchill, Calif.	146 117	--- ---	23	21	Bayerischer Rundfunk, 6085
19. René Chicoine, P. Q.	142 134	--- ---	---	---	-----
20. Bill Flynn, California	141 141	--- 292	32	32	Reykjavik, Iceland, 12175
21. Bill Matthews, Pennsylvania	140 118	282 162	32	32	"Legal R. Prague" 11990 kHz
22. Don W. Billingsley, Calif.	135 108	--- ---	29	28	R. Luxembourg, 15350 kHz
23. William Via, Maryland	131 118	240 137	33	32	RIAS, West Berlin, 6005
24. Bob Hagerman, Michigan	126 98	256 125	32	28	Minsk, Byelorussia 15150
25. Bruno Colapietro, New York	125 113	210 183	32	32	EN/Açores relay, 4865 kHz
26. Chris Lobdell, Massachusetts	125 91	183 113	28	26	Belgrade, Yugoslavia 9620
Bill Eddings, Pennsylvania	122 103	168 151	32	30	Athens, Greece, 15345 kHz
28. Mike Kamp, Texas	120 105	192 139	27	27	TWR, Monaco, 7260 kHz
29. Brent M. Wolfson, Calif.	116 61	159 67	30	25	R. Luxembourg, 15350 kHz
30. Robert Getman, Wisconsin	115 89	222 102	28	26	VCA/Thessalonika, 5995
31. Larry A. Lundberg, Minn.	114 88	393 261	---	---	-----
32. Mike Macken, Massachusetts	114 59	--- ---	29	25	Minsk, Byelorussia 15150
33. Richard D'Angelo, New York	113 65	--- ---	29	23	Minsk, Byelorussia 15150

4. Robert H. Wilkner, Florida	112	55	---	61	32	25	Vilnius, Lithuania, 9740
5. Gary Mickle, California	111	89	212	133	28	25	Südwestfunk, GFR, 7266
5. Alex T. Frimm, Missouri	109	81	112	81	28	27	Athens, Greece, 11720 kHz
7. Art Poulis, Massachusetts	109	75	---	73	28	28	Athens, Greece, 15345 kHz
8. George Schnabel, New York	106	81	---	---	27	26	-----
9. Dan Ferguson, Florida	105	--	---	---	29	--	-----
0. Alvin Sizer, Connecticut	101	75	140	76	29	29	Pori, Finland, 15185 kHz
1. Andrew Pappas, Illinois	96	80	---	---	--	--	-----
2. Steve Kamp, Texas	96	76	249	121	19	17	Monte-Carlo, Monaco, 7295
3. Jerry L. Green, Virginia	94	80	105	80	29	29	Monte-Carlo, Monaco, 7140
4. Barry Glassberg, New York	91	63	148	80	29	26	Monte-Carlo, Monaco, 7295
5. Norm Jacobsen, Wisconsin	90	78	111	86	26	26	R. Euzkadi, 15085 kHz
6. John Zaharek, Connecticut	87	76	141	105	28	28	Vilnius, Lithuania, 11710
7. Charles J. Artiss, Michigan	87	71	148	107	27	26	Monte-Carlo, Monaco, 7260
8. H. Price Kagey, Pennsylvania	84	55	92	59	29	24	Radio Euzkadi, 15032 kHz
9. Craig Koukol, Illinois	81	41	99	45	24	12	Oslo, Norway, 11850 kHz
0. Bruce Reynolds, Missouri	80	69	---	--	26	25	Vilnius, Lithuania, 7560
1. John Mraz, Pennsylvania	80	58	108	67	27	26	Voice of The West, 6025
2. John L. Osborne, Ontario	77	63	111	74	27	27	Belgrade, Yugoslavia 7200
3. Stanley D. Mayo, Maine	76	74	---	--	26	26	Warsaw, Poland, 11840 kHz
4. Dan Trigilio, Connecticut	75	10	---	10	26	6	Deutsche Welle, 9795 kHz
5. William G. Caldwell, Calif.	74	60	---	--	--	--	Pori, Finland, 15185 kHz
6. Luis S. Valdivieso, New York	73	51	73	51	26	23	-----
7. Michael J. Seth, New York	73	41	102	43	28	24	Radio Finland, 15185 kHz
8. D. J. Weber, Ohio	72	63	105	88	26	26	VOA Wooferton, 6150 kHz
9. Harry Smith, Ohio	72	62	81	70	26	25	Warsaw, Poland, 7205 kHz
0. Kim Elliott, Indiana	72	50	101	59	27	26	TWR, Monaco, 7295 kHz
1. Michael Silverstein, New York	72	50	87	60	29	23	Warsaw, Poland, 11875 kHz
2. Bruce Goldman, New York	71	56	100	66	27	26	Radio Finland, 15185 kHz
3. J. D. Thornton, California	70	69	---	--	23	23	Warsaw, Poland, 11840 kHz
4. Donald F. Herbert, Penna.	70	43	---	--	28	22	Radio Nederland, 9590 kHz
5. Bob Kirkpatrick, B. C.	69	66	69	66	27	27	TWR, Monte-Carlo, 7295 kHz
6. Henry Michalenska, R. I.	69	58	---	--	28	27	VOA/Thessalonika, 7205
7. Walt Fair, Texas	69	29	---	34	20	13	Radio Tirana, Albania 7265
8. Douglas Anderson, Florida	68	61	100	67	27	26	ORU, Brussels, 6125 kHz
9. Bob Citronberg, New York	68	60	71	64	25	24	Vilnius, Lithuania, 11730
0. James S. Wilkie, Missouri	68	58	68	58	26	23	-----
1. Richard L. Murphy, Texas	68	51	85	53	21	20	Minsk, Byelorussia 15150
2. Marty Kane, N. J.	68	51	81	53	26	24	TWR, Monte-Carlo, 7245
3. Jerry M. Stuart, Oklahoma	65	55	---	86	23	20	VOA/ Thessalonika, Greece
4. Kevin Brown, Michigan	65	40	94	43	24	19	Vienna, Austria, 15430
5. Andrew Rugg, P. Q.	64	60	109	101	25	25	Tirana, Albania 7265 kHz
6. Walter Miscichowski, N. Y.	64	42	---	---	--	--	-----
7. Alan Jeeves, Pennsylvania	64	19	88	20	23	5	Prague, Czechoslovakia 7345
8. Rowland Archer, N. Y.	63	54	72	53	25	22	Radio Denmark, 9520 kHz
9. Thomas J. Daly, New York	63	31	70	34	25	15	Kiev, Ukraine, 11980 kHz
0. John Forsythe, P. Q.	62	51	64	41	--	--	-----
1. Rudolph Menna, Pennsylvania	62	38	65	38	26	20	Copenhagen, Denmark, 9520
2. Greg Barman, Illinois	62	25	75	29	26	13	Copenhagen, Denmark, 9520
3. James S. Hurst, Maryland	61	49	76	61	25	25	Helsinki, Finland, 15185
4. Bob Penn, Georgia	61	49	72	55	25	23	Copenhagen, Denmark, 9520
5. Paul Moore, Ohio	59	46	65	48	27	23	Copenhagen, Denmark, 15165
6. Larry Zamora, Texas	58	50	65	61	25	25	Radio Denmark, 9520 kHz
7. Robert Moser, Illinois	58	44	--	70	25	20	DIQ5, Deutsche Welle, 5980
8. W. Allison Capson, N. B.	57	51	67	55	26	23	TWR/Monte-Carlo, Monaco
9. David M. Baltimore, Penna.	56	50	58	52	28	28	Radio Portugal, 6185 kHz

91. Len Hoskins, Wisconsin	56	36	68	48	26	22	-----
92. Bert Adams, Ontario	55	46	--	--	24	22	Prague, Czechoslovakia 7115
93. Chris Pygott, Ontario	55	37	66	37	26	23	Radio Denmark, 9520 kHz
94. John T. Soneff, Louisiana	53	45	60	49	24	23	-----
95. A. A. Jinkinson, Ontario	53	43	--	--	24	22	Radio Portugal, 6025
96. Ken Lyon, New York	52	46	67	46	23	18	Radio Denmark, 9520 kHz
97. Chris Kennedy, Maryland	51	41	53	41	24	21	Finnish Bc. Corp, 15155
98. Irwin Glasberg, P. Q.	51	32	67	37	25	19	Radio Finland, 15185
99. R. C. Standish, Ohio	51	25	53	25	25	15	Radio Norway, 11735 kHz
100. Dale Landolt, Illinois	50	20	60	18	22	12	Radio Portugal, 9680 kHz
101. Lee Boggus, Georgia	49	38	58	46	18	16	Belgrade, Yugoslavia 9620
102. Audie Kaufman, N. Y.	48	39	63	48	22	21	Radio Nac. España, 9760
103. John W. Banta, New York	48	39	53	44	22	21	R. Bucharest, 9510 kHz
104. Charles F. Davis, N. C.	46	32	46	32	20	18	Prague, Czechoslovakia
105. Norm Perdue, California	45	39	45	39	16	14	Radio Portugal, 11935 kHz
106. Bruce Klemens, N. J.	45	38	54	43	25	23	Vilnius, Lithuania 15210
107. J. R. Mappin, Washington	45	20	71	37	13	5	PCJ, Holland, 15220 kHz
108. Joseph A. Breton, Mass.	44	35	39	36	21	20	ORU, Brussels, 9615 kHz
109. Andy Rodau, New York	44	27	53	35	18	11	Tirana, Albania 7265 kHz
110. Dennis Patrick Driscoll, NC	44	27	50	27	--	--	-----
111. W. P. Kilroy, D. C.	44	26	49	27	22	16	Radio Norway, Oslo 15345
112. Ken Sedlacek, Nebraska	44	15	48	17	18	7	Deutsche Welle, 11945 kHz
113. Edward Kelly, Pennsylvania	44	14	44	14	21	7	Prague, 11990 kHz
114. R. E. Estand, Texas	43	35	53	43	21	17	Budapest, Hungary 6234 kHz
115. Larry Maroney, Missouri	43	33	45	35	19	16	Austrian Radio, 6155 kHz
116. Chris Stark, N. S.	42	39	--	--	23	22	Radio Finland, Helsinki
117. Trev. Burke, B. C.	41	39	73	68	17	17	Voice of the West, Lisbon
118. Dennis A. Doonan, Wisconsin	41	31	48	33	20	11	Radio Finland, 15185 kHz
119. Peter Rudolph, California	41	28	45	32	17	12	Vatican Radio, 11895 kHz
120. John A. Figliozzi, New York	41	6	47	6	22	2	Sveriges Radio, 5990 kHz
121. Bill Vogt, Illinois	40	35	55	47	20	18	Radio Sweden, 11705 kHz
122. John De Smith, Minnesota	43	33	50	35	20	14	Vienna, Austria, 9770 kHz
123. Joey Nonnast, Texas	40	25	--	--	--	--	-----
124. Lyle D. Hulser, Tennessee	39	30	45	35	24	19	Radio Prague, 7345 kHz
125. Bob Chaffee II, N. Y.	39	17	43	17	23	9	Kiev, Ukraine 11890 kHz
126. Scott Moeller, Pennsylvania	38	24	44	28	23	12	I.C.R.C., Geneva, 7210
127. Paul Manning, Massachusetts	36	7	39	7	21	5	Prague, Czech. 11990 kHz
128. Al Rasmussen, N. J.	34	23	37	25	22	16	Radio Safari (Lisbon) 9680
129. Ken Hildreth, Illinois	33	24	40	29	16	12	RAI/Italy, 9710 kHz
130. Arthur L. Skopec, New York	32	27	40	34	20	17	ORU/Brussels, 9615 kHz
131. Bob Peritz, New York	31	22	38	27	15	11	Kiev, Ukrainian SSR 9410
132. Brian Goedke	30	20	50	20	8	2	RNE, Madrid, Spain 11800
133. John Semenc, Alberta	28	21	30	23	13	9	Kiev, Ukrainian SSR
134. Eddie L. Gafford, Kentucky	27	22	34	25	16	12	Radio Norway, Oslo, 11735
135. Don Dinkmeyer, Illinois	27	19	35	--	10	8	Deutsche Welle, 9640 kHz
136. Rick Kolb, Ohio	26	12	27	12	13	6	Sveriges Radio, 15275 kHz
137. John A. Beggs, Ontario	24	22	27	23	14	13	Prague, Czech. 7345 kHz
138. Gary A. Galo, Vermont	24	20	29	23	--	--	-----
139. Thomas S. Murphy, Texas	24	13	27	17	8	5	Radio Denmark, 9520 kHz
140. Dutee R. Yaghjian, Mass.	21	11	21	11	2	4	RAI/Roma, Italy, 11910 kHz
141. Richard Miller, Virginia	20	17	20	17	7	4	Radio Prague, 7345 kHz
142. Paul Curran, Massachusetts	20	15	--	--	10	8	Radio Prague, 7345 kHz
143. Roger S. Horie, Idaho	20	12	24	14	4	3	Radio Norway, 15175 kHz
144. John Carson, Pennsylvania	16	13	17	14	9	7	Radio Budapest, 11910 kHz

Next SCOREBOARD will appear in April 1969 Frendx, when the featured continent will be OCEANIA. Be sure and update your totals, particularly for OCEANIA by deadline of

QSLs RECEIVED

- ALBANIA:** Radio Tirana, 7300 kHz, folder card seamailed in 3 months, 25 days. Full data (Murphy, Texas) card and sked in 76 days for 9500 (Wastradowski, Washington) 2½ mos (De Smith, Minn.) 9509, 4 months; no frequency specified (Estand, Texas)
- ALGERIA:** RTVA, Algiers, arabic card with insignia for 11810 kHz in 3 months seamailed. 1-IRC; station also sent blank reception report form in French (Sizer, Conn.) 11835, 1½ wks seamailed; 3 IRCS; full data (Pappas, Ill.)
- ANGOLA:** Radio Clube de Melanje, 7115, letter in 6 weeks airmail giving only date, but saying report was correct. Power listed as 500 watts; 3 IRCS; QSL in Port. (Shaw, Cal)
Voz de Angola, 5960, letter by airmail in 2 months from Manuel H. de Carvalho, Diretor, in Portuguese for report in same. Also sent tape of Portuguese, Angolan and Cape Verde Music (Wood, Hawaii) in 14 days from Box 3159, Luanda (Roth, Conn.)
- ARGENTINA:** Radio El Mundo, LRX2, 9710, card, pennant and personal note in English by technical manager: Charles N. Cutler. 1 month time; mint stamps sent (Sparks, Calif.)
- ARMENIA:** Yerevan sent card, p/cards, sked all via airmail in 3 weeks registered for 15305. No IRCS. (Padula, Australia) 15140, 3 months surface; 3 color photo cards too. Complete data (Estand, Texas)
- ASCENSION IS:** BBC, 11865, card with location typed in in 2 months by air. No IRCS (Forsythe, P. Q.)
- AUSTRALIA:** Radio Australia, 8 QSLs in 2-5 months for 11710, 9580, and 17840. Red Gum Tree and Kangaroo cards. Full data (Reed, Kansas) 15240, 106 days (Rabone, N.Y.)
- AUSTRIA:** Vienna, 6155, card in 21 days; 2 IRCS (Doonan, Wisc) 2 mos airmail; card has various drawings of scenes in Austria (Rabone, N.Y.) 9770, IRC (Glasberg, P.Q.)
- AZORES:** Emissor Regional dos Açores, Ponta Delgada, 4865, card and calendar in 1 month by air. 3 IRCS sent; states only "62 meter band" (Matthews, Pa) 10 days; IRC (Sizer)
- BELGIUM:** ORU, Brussels, 6125 kHz, card, sked and mailbag script mentioning my rpt, in 3 wks by air (Hurst, Md) 9615, multicolor card in 6 weeks (Brown, Michigan)
- BONAIRE:** Radio Nederland, 11730, relay card in 1 week airmail; full data (Banta, NY) card and states lessons 21-24 of All-Round DXers Course not yet ready (Wastradowski, Washington) 10 wks (Forsythe, PQ) 1 month with new card: an aerial view of new Bonaire Noord relay station (Glasberg, PQ)
TWR, 9695, card, sked in 9 weeks (Lachmann, Idaho) 9575, 5 weeks; no IRCS (De Smith, Minnesota)
- BRAZIL:** Radio Jornal do Comercio, Recife, 9565/11825/15145, card from Cecy Pontual, Secretaria in 2 wks on 7th try. Full data (Field, Michigan)
Radio Rural Brasileira, 15105, 2 different cards by air. No pennant (Field)
Radio Nacional Brasilia sent personal letter from Luthero Toledo in 15 days. 2 IRCS and p/card sent (Wastradowski, Washington)
- BRITISH HONDURAS:** Radio Belize, p/card in 3½ months airmail. Card features an economic map of British Honduras. 1-IRC sent; for 3.3 MHz (Renwick, Sask.)
- BULGARIA:** Sofia, 9700, card in 52 days; 3 IRCS sent (Doonan, Wisc) color photo card of seashore in 71 days airmail (Estand, Texas)
- CANADA:** Radio Canada, 9625, card in 16 days with full data. V/S: B. Duke; also copy of "Electron" Magazine (Banta, N. Y.) 10 days seamailed (Estand, Texas)
CHNX, Halifax, 6130, white card with blue printing. 6-cent stamp sent (Glasberg)
CFVP, Calgary sent card 12 days for 6030. Card is photo of Xmtr (Wastradowski)
- CANARY IS:** RNE relay sent QSL with pic of studios in 9½ wks. Mint stamps sent, but not used (Brown, Michigan)
- CEYLON:** Ceylon Broadcasting Corp, 15230, letter by air in 28 days. Date and freq. 3 IRCS. Required f/up (Pappas, Illinois)
- CHILE:** Radio Agricultura, Santiago, 11810; Xmas card with thank-you for report of September 1966. Reply mailed December 1968, so 2 years 3 months total (Wood, Hawaii)
- COLOMBIA:** Radio Reloj sent card from Gladys Cecilia in 15 days for 4795 (Wastradowski, Washington)

ZOI (Dem. Rep. of) Kinshasa, 15240, registered airletter from V. Nikuna, Director of technical services in 3 months. (Sizer, Connecticut)

ZONGO REP: ORTF, Brazzaville, 15445, card and thankyou note for rpt in 74 days from V/S: R. Branellec, Station Manager. Usual card (R. Murphy, Texas)

COSTA RICA: Radio Atenea, 6150, letter and pennant in 10 days airmail; mint stamps sent. V/S: Sergio Araya Duarte, Dpto. de Produccion (Sparks, Calif) Address: Apt. 2208, San José, Costa Rica (GAC)

Radio Titania, Apt. 512, San José, 6150 kHz, letter from Edward I. Barrantez, C.E., in 2 weeks. Also letter from Fernando Lopez F., in 3 weeks, with pennant. Formerly on 825 kHz MW only (Field, Michigan) Very good Marlin (GAC)

CUBA: Radio Habana, 9525, card in 7 months airmail. No IRCs; rpted on aerogramme (Stuart, Oklahoma) 103 days; sked too (Wastradowski, Washington)

CZECHOSLOVAKIA: Radio Prague, 21450, card of Lobkovic Palace in 27 days air. V/S: Vladimir Kučera; also Xmas card & 1969 calendar (Banta, NY); 9540 in 38 days (Wastradowski, Washington) 7 weeks (Forsythe, PQ)

DENMARK: Radio Denmark, 15165, map card in 2 months w/full data (Reed, Kansas)

DOECANESE IS: VOA/Rhodes, 6015, card with date, freq. & location in 5 days (Stuart)

ECUADOR: HCJB, 15115, N° 5 card in series, miniature painted picture, sked and relig. data seemail in 71 days. Complete and correct data (Estand, Texas)

ENGLAND: BBC London, color card of Thames, no IRC; 9 wks air (Hurst, Md) 3 wks (Moore)

ETHIOPIA: Radio Ethiopia sent large colorful sked with "QSL confirmed" written in; for 7290 in 1 month. 3 IRCs sent (Padula, Australia) 6165, 2 months after f/up; by registered airmail. 3 IRCs (Field, Michigan)

G.D.R. RBI, Berlin, card showing "Rotes Rathaus" in 30 days airmail, with mimeo letter No IRC (Robinson, Va) 15135, 51 days; 2 IRCs (Doonan, Wis) 62 days, card and sked (Lewis Maryland)

GHANA: Accra, 11850, card and sked in 20 days. 1-IRC (Fryshepa, Ohio) 21720, 5 weeks, no IRCs (Padula, Australia) 9760, 4½ months; 2 IRCs (Doonan, Wisconsin)

GILBERT & ELLICE IS: Tarawa, 4912.5, acknowledgement form letter in 19 days airmail. Mint stamps sent; date of reception and new call signs typed in, but no specific confirmation statement. (Flynn, California)

GUATEMALA: TGNA, Radio Cultural, 5955, card & sked in 2 1/4 months airmail. No IRCs; gives date and freq (Hulser, Tenn.) card with drawing of Quetzal bird in 11 wks air V/S: Wayne Berger, Station Engineer (Hagerman, Michigan) 2 months 28 days (R. Murphy, Texas)

GUINEA: Voix de la Révolution, 9650 kHz, by postal card with English message, not signed. After 6 other unanswered reports over past 9 years (Roth, Connecticut)

HONDURAS: HRVC, 4820, card in 19 days; 1-IRC (Doonan, Wisconsin)

Radio Juticalpa, 4780, letter in Spanish by Victor Rubi Zapata, Gerente-Proprietario; by air in 3 weeks; very friendly letter (Field, Michigan)

INDIA: AIR Bombay, 17705, card in 2 months. IRCs sent back (Sparks, California)

INDONESIA/JAVA: Radio Angkatan Udara, 11900, letter with very specific confirmation by air in 4 months from F. H. Hasibuan, 1st Lt. Mint stamps sent. QSL asks for more report: especially on 2475 kHz. (Flynn, California) Wisc.)

IRAQ: Radio Baghdad, yellow card and schedule in 60 days by airmail. 2 IRCs (Jacobson/

ISRAEL: Kol Israel, Jerusalem, 9009, card featuring picture of towers; in 2 months. Complete data; no IRCs (Koukol, Illinois; Seth, N.Y.)

ITALY: RAI, 11810, regular card in 62 days. 2 IRCs (Doonan, Wisconsin) 2 months surface mail; card has pic of antennae (Rabone, New York)

JAPAN: FEB, Tokyo, 6155, card from Hal H. Harlan, Lt. Col. USAF, in 2 weeks by air (Field, Michigan)

JAPAN: NHK, Tokyo, 15105, card by air in 1 month, w/sked, pennant, rpt forms and p/card (Field, Michigan)

JORDAN: Hashemite Bcing Sce, Amman, 11610 (5 kW), w/card of Church of the Nations in Gethsemene, by air in 2½ months. Full data. 5 IRCs (Matthews, Pa) Gethsemene now in Israel - don't let them fool you. hi (GAC) photo card of Jerash, the Temple of Artemis & sked, by air in 7½ weeks. Full data. 2 IRCs (Hagerman, Michigan)

KUWAIT: colorful card folder, w/map on one side, gorgeous stamps and reproductions of others on cover; for 11920 kHz. Has data complete. 45 days; no IRCs (Sizer, Conn.) 9520, 2 months by air. Reported by registered air (Flynn, California)

LITHUANIA: colorful card shows 3 country maidens with full verification data, in 4 months from Radio Vilnius; no IRCs sent (Moore, Ohio)

MALAYSIA: Radio Malaysia, Penang, 9515, card with date only in 43 days airmail. Colorful card of map and flag (Flynn, Calif) 4985, 5 weeks by air. IRCs sent (Flynn, Calif)

MALDIVES: MIBS, Malé, 4740, card stating date and frequency, and indicating that details have been checked; by registered airmail in 6 weeks (Wood, Hawaii)

MAURITANIA: Nouakchott, 4850, card by air in 5 months (Billingsley, California)

MAURITIUS: Mauritius Bd. Corp, 4850, card airmail in 3 wks. IRCs (Sparks, California)

MONACO: TWR, Monte-Carlo, folder type QSL plus religious lit for 11865 in 7 days only! V/S: Al Stewart, DX Editor (Padula, Australia!)

MOZAMBIQUE: Radio Clube Moçambique, Lourenco Marques, 2 cards in 18 days w/sked. All came separately, but on same day. For 11820 kHz (Burnett, Calif) 4855, 19 days by air; card is pic of RCM studio (R. Murphy, Texas) 11777 (nom. 11780) 19 days, card is pic of large office bldg in LM (R. Murphy, Texas)

Radio Pax, Beira, 7205 kHz, letter, all data, sked and beer bottle-label from P. (=Padre) Manuel Carreira das Neves; by air in 2 wks (Wood, Hawaii)

NETHERLANDS: Radio Nederland, 15425, "Happy Station" card picturing Eddy Startz in 5 wks airmail, with sked (Hurst, Md.)

NEW HEBRIDES: Radio Vila, Port Vila, sent letter from A. R. Warner, Information Officer British Service of the New Hebrides, in 1 year after f/up; 16 months after original rpt. Letter gives data on station (Billingsley, California) 3903 (nominal 3905), letter w/unsatisfactory text, no confirmation text. Rpted 10 months ago and f/up 6 months before QSL. (Wood, Hawaii) 16 months (Sparks, California)

NEW ZEALAND: Radio New Zealand, Wellington, card and schedule for 11780 kHz; in 3 months. IRCs (Seth, New York)

NIGERIA: Voice of Nigeria, 21455, card and sked in 19 days. IRC returned (Pryshepa, Ohio) 3 wks air from V/S: G. N. Nwuli, Propagation Engineer. F/up addressed to H. Foote, but he has now retired (Padula, Australia) 4 months seaimail (Reed, Kansas) 18 days (Mohrman, N. Y.)

PAKISTAN (E): Dacca, 5985, card and letter in 21 weeks after f/up from Masud Qureshi, Director, Listeners Research. IRCs sent (Sparks, California)

PAKISTAN (W): Radio Pakistan, Rawalpindi, 17950, card in 377 days airmail. V/S: Masud Qureshi (Mohrman, New York)

PAPUA: VLT9, Port Moresby, 9520, ABC card in 1 month exactly; by airmail; 4 IRCs sent; full and complete data (Pappas, Illinois)

PERU: Radio Tawantinsuyu, Cusco (note revised spelling), 6175 kHz, letter, card and magnificent pennant in red, white, blue, black, yellow, green and purple for station's 20th anniversary. V/S: was Maria N. Montesinos E., Administradora; by air in 11 months after follow-up (Wood, Hawaii)

Radio Nacional Tumbes, 9550 kHz, letter by air in 13 days. Mint stamps sent. V/S: Fior de Maria D. de Abt; Secretaria (Sparks, California)

PERU: Radio Eco, Iquitos, 5009A, letter in English with very definite confirmation statement, in 19 days airmail. Mint Stamps sent; V/S: Rony Linares, D.J. Letter is very cordial and friendly (Flynn, California)

POLAND: Radio Warsaw, 11870, 7th card of Polish map series, by air in 1 month. Also sent p/card, and letter which mentioned upcoming series of "Polish Monuments" QSL card; sked also sent w/verification (Field, Michigan)

PORTUGAL: Emissora Nacional, Lisbon, sent card for 21735, in 3 weeks. 1-IRC sent w/rpt. 1st QSL this frequency?? (Padula, Australia)

QATAR: QBS, Doha, 9570, fine personal letter in only 20 days from V/S: Taher Shihabi, Director of Broadcasting; Box 1414, Doha (Roth, Connecticut)

ROMANIA: Radio Bucharest, 15250 kHz, picture of pelicans in Danube Delta. 9 weeks. 1-IRC (Rabone, N.Y.) also pocket calendars, pennant and data on Listeners Club in 69 days for 11940 (Wastradowski, Washington)

RWANDA: Deutsche Welle, Kigali relay, verified with card and letter for 11795 kHz in 7 weeks from Mr. Thiele. Card states: "First-Day QSL card"; first day of xmsn from Kigali to N.A. (Matthews, Pa) 17765, card in 2 weeks airmail, w/sked via Köln; No IRCs; full data (Forsythe, P.Q.)

RYUKYU IS: VOA/Okinawa, 7165, card in 7 days from Opal Lau in Washington, via surface mail (R. Murphy, Texas)

SAUDI ARABIA: SABS, Riyadh, folder card for 6000 kHz with English Statement. V/S: Werner Storg, CE. 19 days (Roth, Connecticut)

SENEGAL: Radio Sénégal, Dakar, 9720 kHz, card seamail in 7 weeks. 2 IRCs (Forsythe, PQ)

SINGAPORE: Radio Singapura, 11940, card showing village scene in 3½ months. Verie statement only. 2 IRCs (koukol, Ill.) card in 82 days for 5052; verifies date only. 3 IRCs sent (Wastradowski, Washington)

SOUTH AFRICA: Radio RSA, card in 53 days airmail w/booklet telling about S.A. life and sked (Lewis, Nebraska) 9705, card in 22 days with number of booklets; full data (Banta, N.Y.) 11875, 3 months seamail. Complete and correct data (Estand, Texas)

SOUTH KOREA: Seoul sent card and sked in 31 days for 15430. 1st report not answered. (Wastradowski, Washington)

SWITZERLAND: SBC, Berne, 6165, B/W photo card of airport by airmail in 20 days. No IRCs and complete info/data (Estand, Texas) 2 months for 11715, 21540, 5985 after 1 f/up. Card shows Swiss mountain scene (Glasberg, P.Q.)

I.C.R.C., 7210, card from G. Penard in 20 days airmail. Full data. 3 IRCs sent (Michalenka, R.I.)

TAIWAN: VOFC, Taipei, 17720 kHz, regular card in 18 days. 2 IRCs (Doonan, Wisconsin)

THAILAND: Thai TV Co. Ltd, 7105, letter with full data in 4½ months; 16 days after f/up aerogramme sent. V/S: Mr. Choo Na Lampang, Director. Mint stamps sent, and reply by air (Flynn, California)

TOGO: Radio Togo, Lomé, 5047 kHz, card seamail in 7 weeks. 3 IRCs; date and time given (Pappas, Ill) 7 weeks seamail; 3 IRCs (Pappas, Illinois) 20 days; card with green map of Africa; full data; 2 IRCs (Jacobson, Wisconsin)

TURKEY: TRT sent QSL in 6 months after f/up w/SASE and 1-IRC. For 15160; also letter denying receipt of original rpt (Burnett, Calif.) white card and outdated sked in 3 months (Brown, Michigan) 16 weeks, neat card with full data; 2 IRCs (De Smith, Minn.)

UKRAINIAN S.S.R. Radio Kiev, 2 color card in 3 months airmail. Full data (Reed, Kansas)

U.A.R. Cairo, 9475, card, sked and p/card in 4 months seamail. 1-IRC; full data (Hulser, Tennessee) 7 weeks; 3 IRCs sent; reply by seamail; complete & correct data (Estand, Texas)

U.S.A. AFRTS, Bethany, Ohio Xmtr, in 6 days airmail with sked. (Lewis, Nebraska)

KGEI, San Francisco, 15245, card, pennant & sked with rpt forms for complete weekly rpts. 2 months (Lachmann, Idaho) 15240, 36 days (Pryshepa, Ohio)

ELBC - MONROVIA

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ELBC



THE LIBERIAN BROADCASTING CORPORATION

Sound of Progress

verification of our signal heard on 3,255 Mc's:
 at 2212 G.M.T. March 29th 1964
 (Date)

Signed [Signature]

The Liberian Broadcasting Corporation ELBC, or as it is known affectionately "The hard way to hear Liberia" broadcasts the official government policy, ELBC is rarely reported on this side of the Atlantic. Transmitting in the 90 meter band, at 3,255 kHz it is a rare and worthwhile catch, and much more of a challenge than ELWA, or the Voice of America/Monrovia.

U.S.A. WINB, Red Lion, Pa., 11795 kHz, card and sked in 27 days (Pryshepa, Ohio) card with full data and details of station from Rev. John M. Norris, in 3 wks (Moore, Ohio)
URUGUAY: SODRE, Montevideo sent card seaimail in 10½ months. Card appears to be quite old, and features map of world, with 6 language overprinted text discussion the "mission of SODRE. No data, a simple thank-you statement (Calkin, New Brunswick)

VENEZUELA: Ecos del Torbes sent red, blue and white pennant, with data typed in. Via airmail after f/up; for 4980 kHz (Padula, Australia)

Radio Barquisimeto, 4990, card in Spanish in 3 wks airmail (Hurst, Md) in 18 days (R. Murphy, Texas) 15 days airmail; green and white card giving date and frequency only (Mohrmann, N. Y.)

Radio Nacional, Caracas, form letter verie from V/S: Francisco Fossa Andersen Encargado del Departamento de Relaciones Extranjeras. As result of f/up QSL received in 1 month after f/up in Spanish. 4 IRCs; for 6170 (Padula, Australia)

WEST BERLIN: RIAS, 6005, card, 37 days with IRCs sent (Sparks, California)

W.I. Grenada, card, w/sked in 2 months. IRC sent (Lundberg, Minn; Capson, N. B.)

And that, gentlemen, completes QSL REPORT for another month. All in all, the above includes reports of QSLs from stations in some 84 countries, and were submitted by 40 reporters in 3 countries, 20 states and 3 Canadian provinces (for those of you who enjoy statistics). Urtill next month then, Best 73s es loads of QSLs, GREGG.

NEWSROOM

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Deadline 15th of Month

The following schedule has just been received from Radio Clube De Mocambique, Lourenco Marques:

In Portuguese on Program A from 0430-1800 on 6115 and 11820 kHz; from 0620-1600 on 15295 kHz, and on 4925 kHz from 1645-2100. In English and Afrikaans from 0315-0700 on 11780 and 4855 kHz, from 0700-1900 on 11780 kHz, from 0415-1800 on 6050 kHz, 0820 to 1400 on 9620 kHz, from 1505-2200 on 4855 kHz, from 1815-0400 on 3218 kHz.

For Program B, the following sked is transmitted: from 1940-2100 on 4762, 3373, kHz, and from 0430-0500 on Sundays on the same frequencies.

Program C can be heard in the African Service on the following frequencies: 4865, 3338, kHz with afternoon and evening transmissions.

Regional transmissions from Porto Amelia can be heard on 7150, 4875 kHz; from Nampula on 7255, 4958, and 3366 kHz; from Quelimane on 7145, 4895, and 3210 kHz. Transmissions from this station may also be heard on 5010, and 7280 kHz; with all broadcasts limited to afternoon and evening hours. (Radio Clube de Mocambique via Richard Murphy, Texas).

Radio Veritas, Manila, continues to test with all Filipino music and very few announcements. Frequencies noted are 11830 and 15170 kHz, used irregularly during the 1100-1300 time slot. (Richard Wood, Hawaii).

Kol Israel has been observed with experimental broadcasts to the USA on 9012.5 (slightly higher than 9009 kHz) at 0400. English is heard from 0400-0415, and Russian from 0430 to 0445. Reports are requested. (Geo. Schnabel, New York, and Martin Fogel, Pennsylvania).

Radio Ulan Bator, Mongolia, is now noted on two frequencies. Nominal 7260 kHz is measured as 7258.5 kHz, and is noted daily around 0800-1030, extended much later some days. An entirely different program is heard on 6386 kHz at similar times. The foreign service in English is totally inaudible in Hawaii. (Richard Wood).

RAE, Argentina, sends the following schedule for their overseas service: In English to Europe from 2300-0000 on 11710 kHz; to ECNA from 0300-0400 on 9690 and 6090 kHz; on 11780 kHz from 0300-0330 to WCNA; from 0400-0700 on 11780 kHz; to the Far East from 0300-0400 on 6090, 9690, and 11780 kHz; In Spanish to ECNA from 0100-0300 on 9690 kHz; to WCNA from 0400-0600 on 6090, 9690, and 11780 kHz. To Africa from 1900-2000 on 6090, 11710, and 11780 kHz. Japanese to the Far East and the Pacific from 0900-1000 on 9690 kHz. French to Europe and Africa from 2230-2300 on 11780 kHz; German to Europe and Africa from 2000-2100 on 11710 and 11780 kHz; and in Italian on 11780 kHz from 2100-2200. The Above sked is for Monday-Friday Only. (RAE, Argentina, via Bob Hagerman, Michigan).

The current frequency for Radio-diffusion Nationale Khmère, Phnom Penh, is 4908 kHz, signing on in Cambodian at 1100. (Richard Wood).

Radio Berlin International's current sked has English to ECNA from 0100 and 0230 on 9500 and 9730 kHz, and to WCNA from 0330 on 6080, 9650, and 9730 kHz. To ECNA in German from 0145 on 9500 and 9730 kHz, and to WCNA from 0415 on 6080, 9650, and 9730 kHz. (RBI via Jim Robinson, Va).

One frequency recently tested by Radio Kuwait is 17810 kHz, blanking out FEBC, Manila on the same channel. Voted in Arabic 0400-0700, but not nightly. (Richard Wood).

Radio Bucharest sends the following schedule, valid until March 2:

To Europe in English from 1300-1330 on 17850 and 15250 kHz; from 1930-2030 and 2230-2300 on 11940 and 9510 kHz. To North America from 0130-0230, 0300-0330, and 0430-0500 on 15380, 15250, 11940, 11885, 11810, 9570, and 9510 kHz. To the Pacific from 0645-0715 on 17850 and 15380 kHz, for Asia from 1500-1530 on 17750 kHz; and for Africa from 1500-1530 on 17850, 15380, and 11810 kHz. (Radio Bucharest via George Rabone and Ren Atkins, Sr.)

Radio Austria, Vienna, sends the following updated sked, valid until March 2: To Europe from 0400-2305 on 6000 kHz; To Europe from 1800-2000 on 11925 kHz; from 1000-1200 on 9770 kHz, from 0500-0700 on 7245 kHz, from 1300-1500 on 11785 kHz; from 0700-0900 on 7245 kHz, to North America from 2300-0400 on 6155 and 9770 kHz. (Austrian Radio, via George Rabone and direct from the station.)

According to the magazine Veja, the Brazilian national radio plans daily shortwave broadcasts in English, French, and Spanish, for listeners outside the Portuguese-speaking country. The aim is to influence foreign friends and sell Brazilian products. The broadcasts will run 21 hours a week, with the Ford Motor Co. and the Brazilian coffee industry among the sponsors. (Al Sizer from the Associated Press).

The Windward Islands Broadcasting Service sends the following sked: To the Eastern Caribbean from 1545-1800 on 9550 kHz, and from 2155-0215 on 3280 kHz. To Jamaica on 15105 kHz from 1545-1800 and on 11970 kHz from 2315-0215. To the British Isles on 15105 kHz from 1945-2130 and on 11700 kHz from 2135-2245. A new sked will be issued from March thru October. (WIBS via Larry A. Lundberg).

The Kashmiri Service of Radio Pakistan, Karachi, nominally on 7240 kHz, is in fact on 7242.5 kHz; plays the interval signal at 1230 and signs on at 1235. (Richard Wood).

The following sked has been received from TGNA, Guatemala City: from 1100-1430 in Spanish and Indian languages daily; On Sunday in English from 0030-0430, and daily in English from 0300-0430, with all transmissions on 5955 KHZ. (TGNA, via Bob Hagerman).

Radio HRVC has an evening English language broadcast from 0300-0400 daily on 4820 kHz. Just a comment--the programs are quite good! (Marlin Field).

Radio Warsaw, Poland has two half-hour programs to North America in Polish and English on Tuesdays and Saturdays from 0315-0345 on 11870 kHz. (Radio Warsaw via Marlin Field)

Radio Nigeria transmits on the following sked: From 0600-0730 in English on 21455, 15365, and 7275 kHz; from 1330-1430 in French to Africa on 9690, 7275, 21455, 11770 kHz; In Hausa from 1430-1530 on 15365, 9690, 7275, and 11770 kHz; from 1530-1700 in English to Africa on 9690, 21455, 7275, and 15365 kHz; from 1700-1800 in Arabic on 15365, 21455, and 7275 kHz; from 1800-1930 in English on 21455, 7275, 15365, and 11770 kHz, and from 1930-2030 in French on the same frequencies, with 9690 replacing 21455 kHz. (Radio Nigeria via Larry Lundberg).

Radio Occidente, Tovar, Venezuela, has left 3365 kHz, possibly due to QRM from Radio Exitos, Dom. Republic, and moved to new 3225 kHz, where the station is noted at 1000 s/on. The 31 meter band outlet is unchanged. (Richard Wood).

Radio Japan's General Service sked to America can be heard from 0000-0030 and 0100-0130, 2200-2230, and 2300-0000 in English and Japanese on 17785 kHz. (Radio Japan via Marlin Field).

Well, that's it for this month!

LOG REPORT

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Deadline 15th of Month

- 2410 HAITI. 4VU, tentative, Fr talk 1040. (Poullis)
- 2446 REUNION. ORTF, s/on Fr 0230, rapid fadeout, 12/31. Don't confuse 4VSO (Berghammer)
- 2480 USA. KCYN, Williams, AZ, 2x1240, ads around 1425. Also 0330-0430. (Hauser)
- 3200 CHINA. Peking (probably), weak in Chinese talk 1110. (Poullis)
- 3204 NIGERIA. Ibadan, 0530 Eng, Yoruba. Ads. (Berghammer)
- 3206 INDONESIA. RRI, Bandung, 1200 out of the mud, daily. (Berghammer)
- 3225 VENEZUELA. R. Occidente, Tovar, new freq, ex-3365, full ID 1030. (Wood) New, ID, s/off 0157. Also, 12/25 w/Mass after 0400. (Hirst) Mx, IDs to 0200 s/off. (Dexter)
- 3230 PERU. R. El Sol, 0530 Sp thru RTTY. (Berghammer)
- 3245 BRAZIL. R. Educ. Palmares, 0115 Port., under Venezuela. (Berghammer)
- 3255 BRAZIL. R. Clube de Marilia, 0130 Port, under Venezuela. (Berghammer)
- 3264 CONGO REP. Brazzaville, 0500 in Lingala. Is RTC, shares ORTF tx. (Berghammer)
- 3265 GUYANA. R. Demerara, relay cricket matches 0415, //3230-WIES. (Sparks)
- 3300 ER. HONDURAS. R. Belize, Eng nx 0140. (Sparks) ID 0533, 12/25. (Hagerman) 0352 ID, (Koukol) Pops 0210. Eng/Sp. (Kagey) Ad for 'Spoiler' 0305. (Michalenka)
- 3302 PERU (Tent.). R. Junin, 0430 Sp. Hard to ID. (Berghammer)
- 3305 PAPUA. R. Daru, starts to peak 1145, but s/off 1202a w/GSTQ. Sat. on till 1230, strong by 1215 w/pops. (Hall) 1145 C-W mx. (Berghammer) Pidgin 1214. (Poullis)
- 3308 ECUADOR. Ondas Quevedenas, 0400 Sp. (Berghammer) Tentative, Sp mx, 1120. (Poullis)
- 3315 MARTINIQUE. ORTF, 0528, on late 12/25. (Hagerman) Fr 2315, mx. (Ferguson)
- 3316 VENEZUELA. R. Maracay, drift from 3315, 0145 Sp. (Berghammer)
- 3320 PERU. R. Eipa, San Vicente de Canete, (Tent.), 0230 Sp. Also ECB harm. (Berghammer)
- 3322.5 BOUGAINVILLE IS. R. Bougainville, choral mx 0800. (Wood) Mx, Pidgin, chimes 1000 (Sparks) Best 1200 s/off. RTTY. (Hall) S/off after devotional 1104 on a Sun GMT. New s/off, or Sun sked? (Hirst) Tentative, believe hrd ID 1201, 1/4. (Poullis)
- 3325 VENEZUELA. R. Monagas, ID 0950 s/on. (Poullis)
- 3335 N. GUINEA. R. Wewak, 1130 in bad QRM. (Berghammer) Consistent 1200-1230 s/off. (Hall) Weak w/pops 1206. (Poullis)
- 3335 SENEGAL. R. Ziguinchor, 0701 Fr, drums, ID 0716, Arabic 0728. (Hirst)
- 3350 GHANA. Accra, National Svc, 0618-0640 in African lang, // 4918A. (Palmer)
- 3355 INDIA. AIR, Kurseong, lang talk, Eng nx 1530. (Sparks)
- 3355 NEW CALEDONIA. Noumea, local announcements 0310. (Wood)
- 3375 INDIA. AIR, Gauhati, Hindi mx, singing. Eng nx 1530, //3355-Kurseong. (Sparks)
- 3380 GUATEMALA. R. Chortis, Sp ID 0141, mx. (Hagerman)
- 3380 MALAWI. (Tent.), Man in Eng, Afr/pops. 0348 10 min to 6' = GMT+2, right for Malawi. Blotted 0355 by RTTY. (Hirst) Tent., 0315 Afr mx. (Berghammer)
- 3383 VENEZUELA. R. Barcelona, drift here from 3385, 0215 Sp. (Berghammer)
- 3385 N. BRITAIN. R. Rabaul, 1145, QRM Dom. Rep. (Berghammer) Consistent 1130-1245 after Cayenne fadeout. Pops w/Pidgin, Eng. (Hall) Pidgin 1209. (Hagerman) Eng nx 0800. (Rowell) Pidgin, rel mx, 1140 on 1/4. (Poullis) (Poullis)
- 3390 FR. GUIANA. ORTF, late s/off New Year's, 0315. (Berghammer) Strong 0915 s/on.
- 3390 ECUADOR. R. Zaracuy, Sto. Dom. de los Colorados, 0550-0555 s/off; full ID and QTH at s/off. No anthem. Is established s/off time for this station. (Palmer)
- 3925 PAPUA. Port Moresby, time check 0815. (Wood) Consistent after 1000, //4890. ABC pgms, good when hams are gone. (Hall) Tent., Eng, mx thru hams 0850. (Poullis)
- 3945 JAPAN. Tokyo, frequently after 1045, local pgms in Japanese. (Hall)
- 3970 W. GERMANY. RFE, 0400 Hungarian, unsked WRTM. (Berghammer)
- 3971 CAMEROONS. R. Buea, s/cn 0500, Eng nx 0515. (Wood)

- 3986 NIGERIA. NBC, Lagos, 0600 Eng nx, Potent sig. (Padula-Fiji) 0604-0618 Eng com'l svc. Anti-Biafra commentary to 0615. (Palmer) Poor 2145. (Ferguson)
- 3995 W.GERMANY. RFE, 0400 Czech, unsked WRTH. (Berghammer)
- 3995 SOLOMON IS. SIFS, consistent w/ABC nx 1100. Pops to 1130 s/off w/GSTG. Pidgin, Eng. (Hall) BBC drama 0935, beautiful ID 1030, mx, 12/29. No ham QRM. (Hirst) ABC nx 1100, for 10 min, then hams. (Poulis)
- 3998 IRAN. R.Iran(Tent.), 0400 Persian, ham QRM. (Berghammer)
- 4020 CHINA. Peking, s/on Korean, //5950. (Wood) Time? (Ed)
- 4610 RSFSR(As). Vladivostok, Russian mx 0800. (Wood) 1444 Korean. (Palmer)
- 4650 ECUADOR. CRE, Guayaquil, 0330 Sp. (Berghammer) R.Dif. del Ecuador, list 4652 (Ed)
- 4712 ECUADOR. R.Luz y Vida, 0340 Andean mx. ID 0406 s/off. (Hauser)
- 4725 ECUADOR. R.El Progreso, 0556 Sp ID, time, anthem, s/off, 1/4. (Hagerman) Noted 0650-0711 s/off. Music with no breaks. ID at s/off. (M.Kamp)
- 4741V ECUADOR. R.El Mundo, 0400 s/off Sp. (Berghammer)
- 4753 COLOMBIA. 'Caracol', 'R.Internacional' IDs. Alka-Seltzer ads 0532. (Hirst) Annce 'Em. Nueva Mundo', or 'Transmitte Caracol'. (Niblack) Ex 4795, 04-05, later (Dexter) 4752A, La Reina Caracol de Col., 0603-0635. (Palmer)
- 4752.5 INDONESIA(C+M). RRI, Makasar, call to prayer 1025. (Wood) Out of order, sorry (Ed)
- 4767 CONGO REP. RTC, Brazzaville, Afr mx, Fr, 0528. (Hirst) 2155 Fr nx. Off 2200. (Marcus) 2030 daily in Fr, w/Afr mx. (Calkin)
- 4769.5 N.KOREA. Pyongyang, Korean talk 1025. (Wood)
- 4770 INDIA. AIR, Gauhati, 1300 mx, nx. (Field)
- 4770 LIBERIA. Elwa, s/on 0615 Eng ID, rel pgm. (Padula-Fiji) 0640-0650 Eng rel. (Palmer) 2045 end Eng rel pgm. (Marcus) Eng 0600. (Seth) Rel pgm 0615. (Mas)
- 4770 VENEZUELA. R.Bolivar, well hrd w/IDs around 0300. (Brown) Sp IS, mx 0445. (Akins)
- 4775 AFGHANISTAN. R.Afghanistan, Afghan mx, talk 0210. (Sparks)
- 4777 GABON. Libreville, native mx, 0555. Weak, but clear. (Sparks) Fr ID, mx 0645 (Akins)
- 4780 VENEZUELA. LV de Carabobo, ads 0546, on late 12/25. (Hagerman)
- 4785 AZERBAIJAN SSR. Baku, carries Moscow H.S. 2100. (Berghammer)
- 4795 DCM.REP. Onda Musical, pop dance mx and ID 0300. (Sparks)
- 4800 INDIA. AIR, Hyderabad, Eng nx 1530. (Sparks)
- 4800 VENEZUELA. R.Lara, Sp ID 1009, Venez. political report, 1/9. (Hagerman)
- 4801.5 PERU. La Nueva Voz del Centro del Peru, Huancayo, full ID 0400. (Wood)
- 4805 BRAZIL. R.Amazonas, pop songs, ID 0400 s/off. (Sparks)
- 4806 INDONESIA[Java]. RRI, Djakarta, 1200 'Prog. Nacional'. (Berghammer)
- 4807V ECUADOR. R.Popular de Cuenca, 0500 Sp. (Berghammer)
- 4815 UPPER VOLTA. Ouagadougou, fair 0616 w/na mx. Fr ID 0625. Nx 0631. (M.Kamp) 0635 to 0701 fair w/nx to 0640; then IS, pops. ID 0645. Native mx. (S.Kamp)
- 4820 ANGOLA. R.Angola, s/on 0500 w/IDs, 'A Portuguesa'. (Padula) s/on 0500. (Palmer) Weak 2055 Port talk. (Marcus) IS, anthem, ID 0500. Dly from 2100. (Hagerman) IS, anthem, s/on 0503, 12/26. (Koukol) Mx, 0430. (Field) ID, nx, mx 2200. (Matthews)
- 4820 HONDURAS. HRVC, 0350 Eng rel pgm, 12/5, (Palmer) 0320 Eng rel pgm. (Koukol)
- 4820 RSFSR[As]. Magadan, 1200 Russ thru Honduras. (Berghammer) 0650 Russ HS pgms, believed of local origin. (Palmer) 1320 Russ. (Randall)
- 4822V VENEZUELA. LV de Apure, here 0330 in Sp. (Berghammer)
- 4825 PERU. R.San Jose, on late 12/25, s/cff 0430. (Field)
- 4825 TURKMEN SSR. Ashkabad, tentative, weak 0200 w/talk. (Marcus)
- 4830 VENEZUELA. LV del Tachira, s/on 1000. (Wood) Two men talking 0015. (Field)
- 4835 BRAZIL. R.Triangulo Mineiro, mx 0100. ID 0203, to 0306 s/off, 12/31. (Field)
- 4836 BOTSWANA. R.Botswana, Gaberones, s/on w/anthem, Eng 0400. (Wood) 0358. (Sparks)
- 4837V BRAZIL. R.Triangulo Mineiro, 0915 Port. (Berghammer)
- 4839 CONGO(DR). Bukavu, s/on 0400. Congo mx. (Berghammer)
- 4840 VENEZ. R.Valera, 0344-0412 s/off. This s/off time believed daily. (Palmer)
- 4850 MAURITANIA. R.Mauritania, native talk, mx; 0800 s/off. (Sparks) 2105 Arab. (Marcus) Tentative, vern./type lang, drums 0750. S/off 0800 'Houna...'. Arabic sked to 0800 in WRTH. Bad RTTY made ID incomplete. (Hirst) Arab, chant 0736, Fr 0749. S/off 0759 by which time signal was almost inaudible. (M.Kamp)
- 4850 MAURITANIA. R. San Pedro, 1200 into Blessing. List R.Corona. (Hirst)

- 85 INDONESIA[Sumatra]. RRI, Palembang, relay Djakarta 1335 to past 1400. Nice sig, old US pops, national nx 1400, 12/28.(Hirst)
- 855 BRAZIL. Rdif. Taubate, music, anmts 2345.(Dexter)
- 855 COLOMBIA. R.Neiva, Sp 0230. Caracol ads.(Berghammer)
- 855 MAURITANIA. Nouakchott, 2130 Arab nx, mx.(Calkin)
- 865 AZORES. Emissora Nacional de Radiodifusao, Ponta Delgada, Port 2145. Swear I hrd an auto race!(Sizer) Good 2135 Port.(Marcus) Port 2200 daily.(Macken) Port ID 2158, talk by man.(Hagerman) Closing 2305 w/'A Portuguesa'.(Niblack) Noted 2130, faded by 2155.(Kagey) 2240 mx to 2300 ID.(Ferguson)
- 865 BRAZIL. R.Clube do Para, 0930 Port.(Berghammer)
- 870 DAHOMEY. Cotonou, Eng lang lesson 0600, strong.(Padula) 0600 Eng by Radio in Fr. (Berghammer) BBC's E.by R. 0601-0610. Also 0529-0535 w/Fr and native mx. Believe than listed 0530, as already well into pgm.(Palmer) 0640 native mx.(Mas)
- 872 GUATEMALA. R. Santa Cruz, 1200 daily, in Sp.(Berghammer)
- 875 COLOMBIA. R.Villavicencio, Sp ID, s/cff 0505.(Hagerman)
- 875 ECUADOR. LV de Esmeraldas, local nx 1200.(Wood) 0345 relay R.Quito nx.(Field)
- 875 S.AFRICA. SABC, fair 2100 in Afrikaans.(Berghammer)
- 880 VENEZUELA. R.Universo, 0305-0320 in Sp w/Christmas ads, 12/16.(Palmer)
- 885 COLOMBIA. Ondas del Meta, Villavicencio, usual Latin fare 0513-0525.(Palmer)
- 890 PAPUA. Port Moresby, best 0900-1000 when R.Dif. s/on. Consistent.(Hall) Eng ID, TC as 30 past 7 at 0930 GMT.(Macken) Light mx, Eng armts, ID 1230.(Calkin) 1200-1330, Sunday Nite Concert, BBC and local nx, rel pgm.(Tuchscherer)
- 890 SENEGAL. Dakar, fair 2055 in Fr.(Marcus) Fr talk by man 0705.(Ferguson)
- 890 VENEZ. R.Dif. Venez., 0250-0300 s/off, Sun.(Palmer) 0342-0404, 12/20.(Tenenbaum)
- 896 PERU. R.Chanchamayo, Peruvian dance mx, fiesta mx, lots of IDs, 0700.(Sparks)
- 900 VENEZUELA. R.Juventud, 0340-0358 s/off, Sun. Think same s/off weekdays.(Palmer) ID, fqys 0301.(Koukol) Sp ID 0350, poor.(Kagey) ID, fqys 0300.(Michalenka)
- 901V PERU. R.Inst. Linguistico, around 0315 in Sp on days w/better skip.(Berghammer)
- 905 CHINA. CPBS, Peking, Cantonese 2200.(Berghammer) 2300, unusual time.(Field)
- 908 CAMBODIA. Phnompenh, s/on Cambodian 1100.(Wood)
- 912.5 GILBERT + ELLICE IS. R.Tarawa, on late for New Year, 1000 Eng.(Wood)
- 913V ECUADOR. LV Gran Colombia, 0445 Sp.(Berghammer)
- 915 BRAZIL. R.Cult. de Araraquara, Port 0930.(Berghammer)
- 915 COLOMBIA. R.Guatapuri, new stn, pop mx, ID 0458 s/cff.(Sparks) See Jan-4905(Ed)
- 915 GHANA. Accra, Eng nx 0600, //4980.(Padula-Fiji) Time pips 2100, //4980, Eng. (Macken) Afr mx, native lang 0710.(Seth) 0600-0613 Eng nx, lang.(Tuchscherer)
- 918A GHANA. Accra, 0535 Afr lang, mx. Also 0618-0640, //3350.(Palmer)
- 920 AUSTRALIA. VIML, Brisbane, 0830 Eng talk.(Rowell) Classical mx 1130.(Calkin)
- 920 INDIA. AIR, Madras, 1300 man talking behind ABC Brisbane.(Field)
- 920 VENEZUELA. R.Caracas, around 0205. Several IDs by 0230. 'R.Nacional en Caracas', 'Emisora Nacional'. Sometimes 'Radio TV Nacional'. Many ads.(Niblack)
- 923 ECUADOR. R.Quito, Sp ID 0403, 20/S9 on 12/30.(Koukol)
- 930 VENEZUELA. R.Junin, 0720-0805 Sp, LA mx. 12/25.(Palmer)
- 930 DOM.REP. R.Mil, 0435 seems to be established s/off time. QRMs Venez.(Palmer)
- 932 INDONESIA[Java]. RRI, Surakarta, relay Djakarta nx 1200.(Wood) (Hagerman)
- 932 NIGERIA. Benin City, Eng nx 0600.(Padula-Fiji) 0606 nx, ID, ads, comment.
- 937 PERU. R.Tropical, Sp 0400.(Berghammer)
- 940 ECUADOR. R.Nac., 'musica nac. del Ecuador' 0400(Wood) 4939, ID 0430 s/off(Sparks)
- 940 HAITI. R.Diff. Haitienne, Port-au-Prince, noted 0645, 12/31.(Mas)
- 940 IVORY COAST. Abidjan, s/on w/antherm, Fr nx 0600.(Padula-Fiji)
- 940 UKRAINIAN SSR. Kiev, in Ukrainian HS. Very strong- S3 on SW4-A, 0530.(Calkin)
- 945 COLOMBIA. R.Colosal, usual Sp pgm 0515.(Hagerman)
- 950 VENEZUELA. R.Coro, ID 1004, at s/on.(Hagerman)
- 955 COLOMBIA. R.Nac., Bogota, 0410 concert, s/off 0430.(Rowell) Class. mx 0300(Koukol)
- 970 MALAYSIA[Sabah]. R.M. Sabah, Eng 1130. Beware WOR 7th harmonic.(Berghammer)
- 972.5 CAMEROONS. Yaounde, 'Ici Yaounde' 0445.(Wood) Fr ID, Afr mx 2105.(Sizer)
- 973V BRAZIL. R.Copacabana, Port 0900.(Berghammer)
- 980 GUANA NBC. Com'l Svc. fair 2105 in Eng.(Marcus) Live mx 2220.(Akins)

- 983 VENEZ. Ecos del Torbes, 0335-0357. May be all nite. (Palmer) Singing ID 0302 (Koukol)
- 990 VENEZ. R. Parquisimeto, 0345-0400 s/off usual time. (Palmer) 0445 ID, mx. (Koukol)
- 994A SUDAN. SFA, Arabic 2130. Weak, local noise ruined positive ID. (Macken)
- 000 ITALY. IBF, Torino, CW, voice IDs 0645-0700. (Dexter)
- 010 PERU. R. Eco, Spanish 0415, 1/8. (Berghammer)
- 010 VENEZUELA. R. Bocono, mx 0300. (Field)
- 015 GRENADA. WBS, Eng nx 2215. (Sizer) 2315 mx. (Randall)
- 015 RSFSR [Eur]. Archangelsk, 2045 Russian. (Berghammer)
- 016 RSFSR [As]. Vladivostok, 1445 Russ, Russ mx. Believe of local origin. (Palmer)
Russian 1200. (I lost the credit on this. Scrry! Ed)
- 017 BOLIVIA. R. Universo, La Paz, political speeches 0350. (Wood)
- 018 VENEZUELA. R. Garora, 2340 Christmas mx, IDs. (Dexter)
- 020A YEMEN. (Tentative). Arabic mx 2200 s/off. (Matthews) Niger sked s/off 2200, but not in Arabic. (Ed)
- 022A GEORGIAN SSR. 'Govorit Tbilisi' 0410. Tnx tip from Ed Shaw. List 5040. (Sizer)
- 030 VENEZUELA. R. Continente, 0030 good in Sp. (Breton)
- 040 BURMA. BES, Rangoon, 1448-1507 Eng, C-W mx. ID 0506 'Myanna Athan'. (Palmer) S/on 1100, local pgms. (Hall) Lang ID 1202. (Hagerman) 1208-1246 Burmese. (M. Kamp)
- 040 GEORGIAN SSR. Tbilisi, Russ 0330, 2103 s/off. (Berghammer) S/on 0158 w/ IS, tones, Soviet/Georgian Nat. Anthem, Georgian/Russian. (Marcus) Mx 0430. (Field) (Hall)
- 047 INDONESIA [Java]. RRI, Jogjakarta, relays Djakarta, local pgms. Best 1130-1230. \
- 047 TOGO. Lome, 0635-0640 Fr nx by man. Good lvl. (Palmer) Weak 2005 in Fr. (Marcus)
ID 0540 in passing. (Hauser) Fr ID 2100. (Seth) Afr rhythms 0655, fading. (Ferguson)
- 054 BRAZIL. R. Vitoria, pop mx, ID. Abrupt s/off 0440. (Sparks)
- 055 BRAZIL. R. Juia. 2240-2300, Xmas carols. (Nblack)
- 055 ECUADOR. R. Catolica, Quito, rel svc 1100. (Field)
- 060 ANGOLA. Nova Lisboa, Port 2115, poor. (Macken)
- 065 RSFSR [Eur]. Petrozavodsk, 0330 Russian. Flutter. (Berghammer)
- 075 COLOMBIA. Accion Cult. Pop., Sutatenza, 0315 s/off. (Brown)
- 090 RSFSR [As]. Palana (list), 0345 Russ //5065. 'Arctic night' reception (Berghammer)
- 125 CHINA. CPBS, 2200 Mandarin HS. Unsked. (Berghammer)
- 130 ECUADOR. R. Centinela del Sur, Loja, ex-5120. 0545 New Year pgm, ID 0559. (Hauser)
- 145 CHINA. R. Peking, 2200 Russian. Jammed 1/7. (Berghammer)
- 900 RSFSR [Eur]. Moscow (list), 1425-1535 Russ HS pgms, 12/23. (Palmer)
- 948 USSR. 'R. Kiev' fair 1930 in Eng. (Marcus) Moscow list 5950. (Ed)
- 955 GUATEMALA. TGNA, Eng rel 0355, 20/S9, but poor. (Palmer) Eng rel 0305. Str. (Koukol)
- 957 CONGO (ER). Lubumbashi, French 2030. (Berghammer)
- 960 ANGOLA. A Voz de Angola, 0500 Port. (Berghammer) IS, s/on 0500, native mx. (M. Kamp)
S/on 0500 Port. (Steh) 0508 Port nx. (Tuchscherer)
- 960 FRANCE. ORTF, s/off French 0730. (Randall)
- 965 BRAZIL. Guia. 0305-0315 Port nx. Good early afternoons. (Palmer) (Randall) \
- 975 ENGLAND. BEC, 0415 s/off Sp to LA. Fr to Afr 0430, Eng 0445 (Palmer) 0615 WS to Af
- 980 GUYANA. R. Demerara, Eng 1045. Hour TCs are 15 min ahead of hour. (Macken)
- 985+ TUNISIA. Tunis, chant by man 0627. QRM-Canada. (Haderman) 0630, //15215 (Ferguson)
- 990 CANADA. CBC, quiz pgm in progress 0208. (Horie)
- 990 SWEDEN. R. Sweden, Eng to NA 0200. QRM-VOA. (Michalenka) 0030 Eng. (Randall)
- 996 MARTINIQUE. ORTF, French 2230, //3315. (Berghammer) (Palmer) \
- 6000 BRAZIL. R. Inconfidencia, 0005 Port, mx. Dominates early PM w/R. Americas gone. \
- 6001V VENEZUELA. R. Miranda, Sp 2200. (Berghammer)
- 6005 BOLIVIA. R. Progreso, 1030 in Guarani. Indian lang-beware! (Berghammer) Program in
an Indian lang, Sp ID 0445. (Sparks) Sp 1035 when CFCW off on a Monday. (Macken)
- 6005 CANADA. CFCW, Montreal, 1300. (Brown) Eng 1800. (Moore)
- 6010 CANADA. CJCX, Sydney, N.S., Cape Breton sports nx 0415, QRM. (Sizer)
- 6015 IVORY COAST. Abidjan, 0616-0625 Fr. Good sig and clear. (Palmer) ID, Fr nx from
0700. (Galkin) See 7213.5 - this month (Ed)
- 6015 SWITZERLAND. SBJ, 1930-2030 w/Eng to UK. Fair, //9665, 12/21. (Williams)
- 6025 INDIA. AIR. new fgy, Eng cmtry 1840. (Padula)
- 6025 INDIA. AIR. new fgy, Eng cmtry 1840. (Padula) //6080 6025 list 5040. (Palmer)

- 604 SINGAPORE. Er.Forces BC Svc, still noted here, //5010. BBC nx 1200.(Padula)
 6050 ECUADOR. HCJB, Sp ID 0200.(Hagerman)
 6057 PERU. R.Continental, pop mx, ID and s/off 0705.(Sparks)
 6062 THAILAND. Educational BC Station, Bangkok, Thai talk 1145.(Wood)
 6065 BRAZIL. R.Nacional, Brasilia, s/on, full ID 0800.(Wood)
 6067 COSTA RICA. R.Relej, Sp rx 0400.(Seth)
 6070 CANADA. CFRX, Toronto, relay CFRB 2315.(Brown)Eng 1805.(Moore) 2245.(Randall)
 6075 COLOMBIA. Accion Cultural Popular, Spanish 0230.(Caldwell)
 6075 CEYLON. R.Ceylon, 1245 Tamil, //9720, 11801.(Berghammer)
 6075 URUGUAY. R.Ariel, Montevideo, 0900 nx, ads. QRM D.Welle, same fqy.(Field)
 6077.5 HONDURAS. La Voz del Junco, violin mx 1150.(Wood)
 6080 ALGERIA. Algiers, fair 2025 w/French.(Marcus)
 6080 E.GERMANY. RBI, Eng to NA 0330-0415.(Berghammer)2020 Eng.(Marcus)Eng 2230(Randall)
 6080 RSFSR[As]. Komsomolsk, 1230 Russian, 'Mayak'.(Berghammer) 1824-1910, 20kw(Palmer)
 6085 NETHERLANDS. R.Ned., 2045 Eng nx to Eur.(Tuchscherer)
 6085 ESTONIAN SSR. Tallinn, 2105 Estonian, mx. Covered 2129 by R.Ned.(Tuchscherer)
 6085 INDIA. AIR, Delhi, s/on 1300 flute ID, pops, unknown lang. Strong.(Hall)
 6090 AUSTRALIA. ABC, Sydney, fair 1430 w/Eng talk.(Marcus)
 6090 DOM.REP. HISD, Eng, Sp ID 2305.(Koukol)
 6090 LUXEMBOURG. Dutch news on Sundays 0800.(Calkin)
 6090 MEXICO. XECMT, R.Mantes, full ID 0402 s/off, 12/24.(Hirst)
 6090 NIGERIA. Kaduna, 0600 Hausa nx.(Padula-Fiji) Hausa nx 0600.(Berghammer) Drum IS
 0600, ID and Hausa nx.(Sparks)
 6095 ITALY. RAI, Rome, 0425-0440 Eng to Medit, //7275, ex-6075.(Berghammer)
 6099 BLAFRA. R.Biafra, Eng nx 0600.(Padula-Fiji) Eng nx, ID 0610.(Sparks) Talk, Afr
 mx around 2230 w/heavy het. ID as 'Voice of Biafra, Enugu'.(Calkin)
 6100 YUGOSLAVIA. Belgrade, fair 1940 Fr nx.(Marcus)
 6103.5 INDONESIA[Java]. V.of Indonesia, Djakarta, s/on Chinese 1200.(Wood)
 6105 MEXICO. R.Frecuencia Juventud, 0417 Sp, Mexican mx. First hrd since 1960(Palmer)
 6115 MEXICO. R.Universidad de Sonora, 2215 classical mx.(Caldwell)
 6120 SWITZERLAND. SBC, Eng to WCNA 0410-0545.(Landolt)
 6125 BELGIUM. RTB, Brussels, Eng 0050 to NA.(Randall)
 6130 CANADA. CHNX, Halifax, DJ show 0515. First time hrd here (Wood)
 6130 GHANA. R.Ghana, fair 2125 Eng to W.Afr. Eng nx 2200.(Marcus)
 6130 SPAIN. RNE, 0305 fair in Eng.(Tenenbaum)
 6135 INDONESIA[Borneo]. RRI, Samarinda, Indonesian pops 1040.(Wood)
 6137.5 TAHITI. Papeete, 0600 Fr nx, local mx. Heavy het.(Calkin)
 6140 AUSTRALIA. ABC, Perth, 1432 horse racing, mx between races. Exc.(Tuchscherer)
 6140 MEXICO. R.Universidad de Chihuahua, classical mx and ID 0300.(Sparks)
 6145 W.GERMANY. D.Welle, 0450-0530 Eng to WCNA.(Landolt) 0445-0545.(Randall)
 6150 AUSTRALIA. ABC, Melbourne, fair 1445.(Marcus)
 6150 COSTA RICA. R.Atenea, 0257 ID, fqy, request rpts.(Hauser) 0150 ID, mx.(Hagerman)
 6150 S.AFRICA. Springbok Radio, Eng commercials 0400.(Wood)
 6155 AUSTRIA. Vienna, fair in German 0310.(Tenenbaum)Nx 0000.(Randall)
 6155 JAPAN. FEN, Tokyo, 1240-1301 mx, nx.(Estand)
 6157M URUGUAY. R.Carve, clear ID 0030 in Sp. Long time not hrd.(Nblack)
 6160 COLOMBIA. Em Nueva Granada, RCN ID 0200.(Koukol)
 6165 SWITZERLAND. SBC; s/on Eng to Eur 0700.(Wood) Eng to Eur.0720-0800(Landolt)
 6173 PERU. R.Tawantinsuyo, Cuzco, Sp 1030.(Berghammer)
 6180 ENGLAND. BBC, 2030 WS to Afr, ME, Medit. Fair 12/24.(Williams)
 6185 ETHIOPIA. R.Ethiopia, 0430 Eng ID, then Amharic, //7290. Now 100 kw.(Berghammer)
 6190 DOM.REP. LV de la Libertad?, list 6185, 1115 nx from 'R.Noticias' chain.(Field)
 6195 HAITI. R.Haiti, s/on 1030.(Randall)
 6195 S.KOREA, Christian BC Svc, Seoul, Korean 0835.(Rowell)
 6200 LITHUANIAN SSR. Vilnius, 2230 Moscow Eng to UK, s/off.(Matthews)
 6208 ALBANIA. Tirana, Eng 0328-0400.(Tenenbaum)
 6211 ALBANIA. Tirana, 0630-0700 Indonesian for Europe's Indonesians! (Berghammer)
 0630-0700 Indonesian for Europe's Indonesians! (Berghammer)
 0630-0700 Indonesian for Europe's Indonesians! (Berghammer)

- 6249V PERU. R.Cuzco, 0415 Sp ID.(Berghammer)
6386 MONGOLIA. Ulan Bator, new fqy, Mongolian ID 1000, not //7260V.(Wood)
6841M INNER MONGOLIA. Huhehot(Tent.), lang from 2250. Native mx 2301-2305.(Niblack)
7010 CHINA. R.Peking, 2230 Russian. Jammed.(Berghammer)
7060 CHINA. R.Peking, 2230-2330 Viet. Not Hanoi (see Dec).(Berghammer) Thanks.(Ed)
7065 IRAN. R.Iran, ID 1230, 'Inja Tehran ast, Radio e Iran'.(Wood) 0230 Persian H.S.
(Berghammer) 0335 Persian, QRM Tirana 0500.(Rowell) Jammer on Tirana 04-0430(Ed)
7066 ALBANIA. Tirana, Fr 0500. Also Eng 0630.(Rowell) French 0150.(Palmer)
7100 HUNGARY. Budapest, good 2155 in Eng.(Marcus)
7101 ALBANIA. Tirana, 2052 talk and ID. QRM.(Menna)
7103.5 MALAGASY REP. Tananarive, 0345 Fr, 4 kw.(Berghammer)
7107M INDIA. AIR, Delhi, open 0230 w/IS, lang nx by man(Niblack)Eng nx 0250(Ferguson)
7115 THAILAND. NBS, Bangkok, s/on anthem, Thai 1030.(Wood)
7120 INDIA. AIR Variety Pgm, 0155 in Gujerati. 5 min break in Tirana xmsn.(Berghammer)
7130 W.GERMANY. D.Welle, end Polish 1500.(Padula)
7130 DODECANESE IS. VOA, Rhodes, Arabic 0430.(Seth)
7131.5 TAIWAN. BCC, Taipei, s/on Thai 1200.(Wood) Korean 0935.(Rowell) (M.Kamp\
7140 INDONESIA[C+M]. PRI, Ambon, Indon. 0930(Rowell) Native mx, Eng pop 0818-0850.\
7140 LATVIAN SSR. Riga, 1130 strong in Moscow HS.(Matthews) Late reception.(Ed)
7145 POLAND. Warsaw, s/on 2300 Sp to 2325.(Seth) Sp 2309.(Kagey)
7154.5 JORDAN. Amman, drift, Arab mx 0400.(Wood) Arabic 0525.(Rowell)
7165 NEPAL. R.Nepal, Eng nx 1400. Jammed, intended for RFE.(Padula) Nepali play,
level with Okinawa 1300.(Wood)
7170 NEW CALEDONIA. Noumea, French drama 1115.(Poulis)
7175 RUMANIA. Bucharest, good 2207 ending German nx.(Marcus)
7180 IRAQ. Baghdad, Arabic 0400, irregular.(Rowell) (Ed\
7185 RSFSR[As]. SFE QTH, Str. in Chin. 1606-1625, 12/24(Palmer)Blagoveshchensk list \
7195 RUMANIA. R.Bucharest, opens in Arabic, mixed w/SABC at 1800.(Padula)
7195 S.AFRICA. SABC, internal svc, Eng rel narrative 1730.(Padula)
7199 MALAYSIA[Malaya]. Penang, Malay, SEA mx 1300.(Niblack) Malay ads 0940.(Wood)
7213.5 IVORY COAST. Abidjan, replace 6015, drift, African rhythms 0715.(Wood)
7215 INDIA. AIR, Delhi, Eng to UK, 2030.(Berghammer)
7240 IRAQ. Baghdad, new fqy, s/on Russian, bir IDs, to 1930.(Padula)
7242.5 W.PAKISTAN. Karachi, drift, IS 1230, s/on Kashmiri svc 1235.(Wood)
7244 ANGOLA. Emissora Oficial, Luanda, s/on, anthem, Port 0500.(Wood) In Port, fadeout
0650.(Padula-Fiji) 0500 IS, s/on under Vienna.(Matthews)
7245 AUSTRIA. Vienna, s/on Ger to Eur 0530, //6155.(Rowell) Eng/Ger 0700.(Seth)
7255 NIGERIA. NBC, Lagos, 0715 Eng commentary.(Mas)
7258.5 MONGOLIA. Ulan Bator, drift, 0930 Mongolian ID, songs.(Wood)
7265 W.GERMANY. Sudwestfunk(Tent.), 0603 German nx.(Matthews)
7270 ARMENIAN SSR. Erevan, 'Erevan Khosum' 0430, relay Moscow 0500:Is Erevan.(Wood)
7275 ITALY RAI, Rome, 0445-0505 s/off, Lithuanian.(Rowell)S/off Eng 0440.(Randall)
7275 NIGERIA. VoN, Eng cmtry 0645.(Padula/Fiji)Eng 0600-0730, //15364, 21453.
(Berghammer)S/on Eng nx 0600.(Niblack)0600-0730, Eng. Morning Melodies 0630.
(Rowell) Good in Eng 0635-0730(Tenenbaum) Eng nx 0605.(Randall)
7286M N.VIETNAM. Hanoi, carrier on 1130A. Into Viet with no IS. Eng ID 1200. Gal gives
fqys, times. Classical mx, into tirade. New fqy.(Niblack) 1225 Eng.(Macken)
7287V, begin Eng 1200.(Poulis)
7290 ETHIOPIA. R.Ethiopia, powerful in Amharic 0445.(Padula-Fiji) 0330 Somali, 100kw.
(Berghammer) S/on, anthem, 0330.(Wood) (Berghammer\
7301 BIAFRA. R.Biafra, new fqy, 0515 Eng review of 1968, at least 10kw, //6099.\
7310 USSR. R.Peace and Progress, 0400 in Sp.(Seth) Sverdlovsk, listed.(Ed)
7345 CZECH. Prague, 0210 Sp to LA. 0305-0345 Eng to NA. Best fqy here.(Palmer) 0330-
0425 Eng to NA.(Rowell) 0300-0400 new time for 2nd NA Eng beam.(Matthews)
7580 N.KOREA. Pyomgyang, begin Eng 1100, w/IS, anthem, ID.(Calkin)
9009 ISRAEL. Kol Israel, weak 2015-2030 Eng to Afr. Strong 2045-2100 Eng, then Fr to
2130 to Eur. Also noted 0430 in lang.(Calkin) Eng ID 2045.(Koukol)

- 1475 EGYPT. R.Cairo, 0100 Sp to SA, 0200 Eng to NA to 0330, then Arab to 0430(Rowell)
 1490 ALBANIA, Tirana, 1830 Eng nx.(Seth) 9500, Eng 0125.(Baltimore)
 1500 RSFSR[As]. Magadan, 0440 Russian(Rowell)
 1505 DOM.REP. HISD, 0114.(Baltimore) 1430 Sp ID.(Hagerman)
 1515 MEXICO. XEWW, typical mx 0415.(Sizer) Noted in Sp.-410-0530(Rowell)
 1515 TURKEY. R.Ankara, good signal w/Turkish mx 1735.(Marcus)
 1525 S.AFRICA. R.RSA, s/on 0400-0412 s/off, Zulu to S., E.Afr, as per sked.(Palmer)
 nx in Zulu, Swahili, over Havana.(Rowell)
 1535 PERU. R.Nacional Tacna, Sp 0500.(Berghammer)
 1535 SWITZERLAND. SBC, 0315-0400 Sp to CA.(Rowell)
 1540 AUSTRALIA. RA, Thai sked 1330-1430. Noted 1355-1410.(Palmer)
 1540 CONGO(DR). Lubumbashi, 0515 Swahili.(Berghammer) Mx 0400.(Calkin) Native music
 and French 0420.(Dexter) 0432-0506 Fr nx, mx.(Tuchscherer) (Palmer)
 1545 W.GERMANY. D.Welle, 2206-2240 Port to Brazil. QRM Ghana to 2215 Ghana s/off.
 1560 FRANCE. ORTF, Portuguese 1945.(Berghammer)
 1560 JAPAN. R.Japan, Gen Svc 1500 Eng. Late reception here.(Berghammer) End Eng talk
 1315.(Marcus)
 1560 JORDAN. Amman, weak in Eng till 1700(Marcus) Eng daily 1600-1700. Strong(Calkin)
 1562 PERU. R.Nacional, 1100 Sp, 50 over.(Berghammer)
 1565 RWANDA. DW Relay, Kigali, Eng nx 0445 over VOA.(Padula-Fiji)
 1571 CHILE. R.Portales, 0545 Sp, 12/25 - for Apollo 8.(Berghammer)
 1580 ENGLAND. BBC, pop mx 0050.Poor.(Menna) Fair in Eng 0200.(Lewis)
 1580 AUSTRALIA. RA, Eng mailbag 1245 on a Sun.(Michalenska)
 1585 NETH.ANTILLES. TWR, test to Eur 0500-0515.(Padula-Fiji)
 1590 CHILE. R.Presidente Balmaceda, 0200 Sp, pops. Big signal.(Tuchscherer)
 1600 CZECHOSLOVAKIA. Prague, begin Eng 1700. Covered by BBC.(Marcus)
 1600 ETHIOPIA. ETLF, 0330-0355 Swahili to E.Afr.(Berghammer) Lang 0330, Eng ID and nx
 0400.(Rowell) Eng nx 0400.(Akins) Eng nx, rel talk 0400-0425.(Tuchscherer)
 1600 MEXICO. Universidad Nacional de Mexico, 0130 Sp, mx.(Caldwell)
 1605 GREECE. Athens, rel svcs 0630. Barely audible thru QRM.(Pappas)
 1610 AFGHANISTAN. Kabul, new fqy, s/on Ger 1730, Eng 1800.(Padula)
 1610 AUSTRALIA. ABC, Perth, Eng nx, s/off 1600.(Seth) Eng discussion 1130.(Hulser)
 1610 NORWAY. Oslo, 0210-0220 Norwegian. Also s/on 0300-0305 w/Norwegian nx.(Palmer)
 0320 lang, part Eng. Eng ID 0330.(Tuchscherer)
 1610 RSFSR[As]. Khabarovsk(list, 0755-0810 Russ ID 0800 'Govorit Leningrad---
 Govorit Gorod Lenina'. Definitely SFE QTH.(Palmer)
 1615 BELGIUM. RTB, Brussels, Eng nx 2202-2211.(Estand)
 1615 MOROCCO. RDTV Marocaine, 0756-0810 Arabic.(Palmer) End Fr nx 2225.(Marcus)
 1615 VATICAN. V.R., IS 0027, s/on Sp 0030, QRM VOA.(Baltimore) S/on 2330 Sp.(Niblack)
 1620 YUGOSLAVIA. R.Belgrade, Arabic 1714.(Marcus) 2200 Eng to Eur.(Seth) Eng nx 2203.
 (Akins) Eng nx 2200.(Hulser) Eng nx 2200.(Randall)
 1625 ISRAEL. Kol Israel, Fr 2100, //9009. Irregular.(Marcus)
 1625 SWEDEN. R.Sweden, 1100-1130 Eng to UK. Arctic night reception.(Berghammer)
 S/on to Eur 0830.(Wood) See Jan - The credit (LM) should read (Marcus), (Ed)
 1626 PERU. R.Atlantida, 0545 Sp, 12/25 - for Apollo 8.(Berghammer)
 1628 COLOMBIA. R.Wac. de Col., local mx pgm. Poor mod., heavy het.0030.(Calkin)
 1630 BULGARIA. R.Sofia, new fqy, ex-9660, 20-2100 Ger, 1/7.(Berghammer) Fr nx 2115.
 (Marcus)
 1630 ITALY. RAI, new fqy, 2230-0325 Italian, Port, Sp to LA, 9710, 11905.(Berghammer)
 9 SINGAPORE. R.Singapore, traditional Chinese mx 0915.(Wood)
 9645 VATICAN. Vatican Radio, Eng 1920.(Marcus)
 1650 GUINEA. Conakry, French sports 2215.(Marcus)
 1680 PORTUGAL. R.Port, 0420 DX pgm, 1/7.(Estand) 0400-0430 Eng to NA.(Caldwell)
 S/on 0200, heavy QRM.(Mas)
 1683 ARGENTINA. RAE, s/on, into Japanese 0900.(Padula) S/on Sp to LA 0400. Regular
 drift from 9690.(Wood) 0147 ID, said pgm is Mon-Fri only(Hauser) 0700, exc.(Seth)
 9685 ALGERIA. RDTV Algerienne, 0755 Kabyl.(Palmer) Arabic 0731.(Seth)

- 1685 RSFSR[Eur]. Moscow, 'R.Kiev', 0440 political talk.(Estand)
 1695 NETH.ANTILLES. TWR, Bonaire, Eng 0315.(Caldwell) 0300 mx, nx, DX.(Horie)
 1699 W.PAKISTAN. Karachi, 1600-1700 Persian. Long path. QRM Sofia.(Berghammer)
 1700 BULGARIA. R.Sofia, 0400-0430 Eng to NA.(Caldwell)
 1705 ETHIOPIA. ETLF, 1300 s/on w/multi-lingual ID.(Padula)
 1705 INDIA. AIR, 1240-1315 Tibetan, //11850.(Berghammer)
 1715 NETHERLANDS. R.Nederland, fair 2100.(Stuart)
 1720 SWITZERLAND. SBC, good 0542 in Eng.(Tenenbaum)
 1724 ISRAEL. Kol Israel, Eng 2015-2100, //9625. QRM RFE.(Berghammer) 2015-2059. Prob. set record for most stations on same freq at same time(Kagey) 2015 Eng.(Breton) Eng nx 2045.(Randall)
 1730 E.GERMANY. RBI, Arabic, 1115. Sked 1000-1400, //15340, 21495.(Berghammer) End Eng nx 1740.(Marcus)
 1735 RWANDA. DW Relay, exc in Fr 1635, into Eng 1615.(Padula)
 1745 ECUADOR. HCJB, 12/31, 0230 w/'DX Party Line'.(Michalenka)
 1750 W.PAKISTAN. Karachi, Kashmiri 1300 in external svc.(Berghammer)
 1750 VENEZUELA. R.Tovar, s/on 1000. 40 over S9.(Berghammer)
 1760 GHANA..R.Ghana, s/on 2000, nx. Fair.(Mas) 2003.(Yaghjian)
 1770 AUSTRIA. Vienna, music 2330.(Hulser) Strong at s/on 0400 to SEA, ann 16m(Trigilio)
 1770 RSFSR[As]. Vladivostok, 0630 Russian. Fluttery.(Berghammer) 0805 Russ. I think sked runs 1600-1000. Logged in most 15 min time slots in this interval.(Palmer)
 9800 RSFSR[As]. Kazan(list), 0450-0515 s/off Russian H.S. pgms.(Palmer)
 9810 RSFSR[Eur]. R.Moscow, 1600-1630 Eng to S.As.(Berghammer)
 9915 ENGLAND. BBC, good w/sports in English 1730. In African Svc.(Marcus)
 10530 KAZAKH. Alma Ata(Tent.), after 0300, all Russ, or Kazakh. No ID hrd.(Sizer)
 11290 CHINA. CPBS, Peking 2325-2356 Chinese. Chinese opera 2330.(Palmer)
 11350 N.KOREA. Pyongyang, 2310-2355 Korean, ID 2325.(Palmer)
 11445 CHINA. R.Peking, 0100-0300 Sp to LA, //11600.(Berghammer) Eng 0100.(Seth)
 11570 RSFSR[Eur]. Moscow(list), 1300 Russian Home Service.(Berghammer)
 11696 CHINA. R.Peking, 0100-0200 Cantonese.(Berghammer)
 11700 VATICAN. Vatican Radio, 1630-1645 Eng to E.Afr, //15210.(Berghammer)
 11705 SWEDEN. R.Sweden, Eng, mx 0330.(Caldwell)
 11706 GUATEMALA. TGQB, 2350-0005 Sp. Why move inside band? Best QRM-wise on 11700. (Palmer) 2356 Christmas mx.(Hauser) 11700, from 2140 all Sp, w/TCs, mx, Eng pop record.(M.Kamp) 1325 Sp ID after nx, then mx.(Hagerman)
 11710 AUSTRALIA. RA, mailbag 1245, 1/12. Acknowledged my letter.(Baltimore)
 11710 DODECANESE IS. VOA, Rhodes, 1400 Eng nx. Weak, fading.(Hagerman)
 11715 BELGIUM. RTB, Brussels, fair 1830 beginning Fr.(Marcus)
 11715 SPAIN. RNE, IS, s/on Sp to SA 2305.(Hagerman)
 11715 SWITZERLAND. SBC, IS 0125, s/on 0130.(Baltimore)
 11720 BRAZIL. R.Nac. de Brasilia, pop mx, ad, ID 0015.(Sparks)
 11725 CONGO REP. R.Brazzaville, 0515.(Baltimore)
 11725 INDIA. AIR, GOS to ANZ 1000-1100, //15205(Best). 15430, 17820 also sked. //15105, 17800, 21485 to E.Asia.(Berghammer)
 11730 NETHERLANDS. R.Ned., 2145-2150 s/off. Eng to NA. Is Hilversum.(Palmer)
 11735 MOROCCO. Rabat, 1830 Eng nx.(Padula-Fiji) End Eng 1900.(Marcus)
 11740 AUSTRALIA. RA, 1700 Eng to SW As, 1/1. Believe long path.(Berghammer)
 11740 MEXICO. XEMP, 2312 Mexican mx, ID, ad. Not often hrd here.(Hagerman)Sp mx 0108. (Koukol) Sp, mx 0330. Good.(Caldwell)1800 IDs as 'XFMP', 'La Charita'.(Field)
 11745 MONACO. TWR, s/on Hebrew 1900. New freq, ex-11750.(Padula)
 11760 CUBA. Havana, 1307 Castro speech mixing with Cuban PTP melody marker indicates common transmitter site. San Pedro Bauta?(Hauser)
 11765 BRAZIL. R.Dif. Sao Paulo, 2315 pop mx, commercial.(Sparks)
 11765 ECUADOR. HCJB 0445 Eng, exc, (Breton)
 11779 MOZAMBIQUE. RCM, Lourenco Marques, Eng pops 0515.(Wood)
 11780 N.ZEALAND. R.N.Zealand, 1716 nx.(Hulser)
 11780 BRAZIL. R.Nac. de Brasilia, 0515 drift.(Wood)Eng 0300. poor.(Kagey)

- 1785 W.GERMANY. D.Welle, 1715-2015 Ger to Afr. //15275.(Berghammer)
- 1785 LEBANON. Beirut, 0150 Fr to 0200, then Arab. Alsp, Eng 0250.(Palmer) Eng nx 0230.(Baltimore) Eng to NA 0255, weak.(Tuchscherer)
- 1785 VATICAN. Vatican Radio, 0050-0105 Eng to NA, //6145, 9615.(Berghammer)
- 1800 CANARY IS. RNE, good in Sp 0230.(Marcus)2226 Sp ID.(Hagerman)Sp 0130.(Caldwell)
- 1800 CZECHOSLOVAKIA. R.Prague, s/on Eng to ANZ 0700.(Wood)
- 1800 POLAND. R.Warsaw, weak 1800 in lang.(Marcus)
- 1803M CEYLON. R.Ceylon, s/on 0130, gongs, SEA mx, ads.(Niblack) Drift here 1125.(Wood)
- 1810 AUSTRALIA. RA, 1000 nx to New Zealand.(Randall)
- 1810 E.GERMANY. RBI, 2000-2045 Eng to N.Afr. Thru Algiers, not Amman.(Berghammer)
- 1810 INDIA. AIR, Delhi, GOS noted 1400 with Eng nx.(Calkin)
- 1820 MEXICO. El Heraldo de Sonora, pop mx, ads 2000.(Sparks) Mx 1650.(Field)
- 1820 NETH ANTILLES. TWR, Bonaire, Russian 0430.(Breton)
- 1825 TAHITI. Papeete, 0600 nx, Tahitian mx, //6137.5.(Calkin) Lang 0400.(Caldwell)
- 1830 PHILIPPINES. R.Veritas, Manila, test with Filipino mx 1120.(Wood)
- 1837V HAITI, LVEJ, 2225 Creole French, brass-band waltzes. Also 0150-0200, Eng and Creole IDs 0200.(Palmer) Fair 2308 w/Fr nx.(Marcus) 2230 chimes IS and Fr ID. QRM Algeria.(Hagerman) 1145 nx, mx. 1748 rel pgm.(Kagey)Fair 0200, Eng.(Breton)
- 1840 PORTUGAL. Lisbon, 0145 s/off Port to ECNA. Also, 0300-0345 Eng to NA.(Palmer)
- 1846V MOZAMBIQUE. 'A Voz do Mozambique', drift, in Swahili 1915.(Berghammer) Swahili, African mx 1815.(Padula)
- 1850 GHANA. R.Ghana, 2010 end Eng nx, //9760.(Marcus)2014 mx.(Hulser) Excellent in English 2010.(Tenenbaum)
- 1850 RSFSR[As]. Vladivostok, Pac. Coast Svc -335.(Brown) 0330-0730 Moscow to NA, //9730, 11870, 15180, 17775 at varying times.(Berghammer)
- 1850 RSFSR[Eur]. Kazan(list), 2258 Russian, anthem, s/off.(Matthews)
- 1850 MALAYSIA[Mayaya]. BBCFES, new fqy, 2358 IS, s/on, BBC nx.(Niblack) 0000-0030 WS to E.As., //17880, 15435, 11955, 9725, 9570, all hrd but 3lm.(Berghammer)
- 1851M ALBANIA. Tirana in Eng 1420.(Niblack)
- 1865 R.Clube de Pernambuco, music 0232.(Marcus)
- 1865 CYPRUS. BBC, new fqy, local ID 2200, into Japanese.(Padula)
- 1865 MONACC. TWR, s/on Ukrainian 1505, Fridays.(Padula)
- 1865 SWEDEN. R.Sweden, 1830-1900 Swedish to MF, Eng 1900. New fqy, ex-11705. (Berghammer) Good 1900 s/on Eng.(Koukol)
- 1865 CONGO(DR). Lubumbashi, 1833-1849 Swahili. Mx, nx. 1935 Eng nx. Also, 2005-2100 s/off w/Fr.(Palmer) Good 1930 w/Eng nx.(Marcus) Eng nx 1930.(Koukol) Eng 1900, good sig.(Kagey)
- 1870 AUSTRIA. Vienna, new fqy, Ger ID 0330, s/off 0355.(Padula) Multi-lingual ID 0330, to LA.(Wood)
- 1870 INDIA. AIR, Delhi, Indian mx 1030.(Wood)
- 1870 POLAND. Warsaw, 0340 Eng ID on new and announced fqy.(Niblack)
- 1870 RSFSR[As]. Khabarovsk, 2330-0000, 'R.Peace and Progress' in Mandarin(Berghammer)
- 1875 BRAZIL. R.Guaiba, Port. nx, ID, and dance mx. 0015.(Sparks)
- 1875 S.AFRICA. R.RSA, 0030 in Eng, //15220.(Lewis)0245-0320 Eng.(Horie) 1905-1915 Eng.(Horie) 0153.(Yaghjian)
- 1880.5 ARGENTINA. R.Splendid, 0015 Sp.QRM Mexico.(Berghammer)
- 1884 BRAZIL. R.Maua, Rio, 0015.(Berghammer) 11885, Brazilian mx 0130.(Wood)
- 1890 PHILIPPINES. FEBC, Manila, Russian religious pgm 1015, // 15440.(Wood)
- 1895 SENEGAL. Dakar, Eng nx 1830, Fr from 1900.(Padula)ID 2355, Fr nx. Off 0000. (Niblack) 11899, Eng ID as International Svc, into Fr 1900.(Calkin)
- 11900 MALAYSIA[Malaya]. R.Malaysia, Mandarin 1500.(Berghammer)
- 11900 S.AFRICA. R.RSA, 0402-0412 Ibo to Nigeria, then Eng to 0416 t/o.(Palmer)
- 11905 CYPRUS? BBC, Ger to 0500, then Russ. Fits old sked in WRTH68.(Palmer)
- 11905 RWANDA. DW, Kigali, poor in Eng 0545.(Tenenbaum)
- 11905 ITALY. Rome, 2210-2225 Eng. Said to Japan! (In English, yet?!).(Palmer)
- 11905 USA. UN Radio, (VCA-Greenville tx), 2030 Eng/Fr UN debate daily, //15415(Williams)
- 11905 THAILAND. NBS Bangkok. Eng ID 1130.(Wood)

- 1920 IVORY COAST. RTVI, Fr 1940, good.(Marcus) 2331 Fr ID after native mx.(Hagerman)
- 1920 FRANCE. ORTF, 1655-1730 Fr, then Arabic, to ME acc to sked.(Palmer) French
0030. Christmas Eve Mass. Then pop mx.(Caldwell)
- 1920 KUWAIT. KBS, Eng 1615, 1/11.(Pappas) 1651 at 10/S9 on 11921.(Kagey) Good in
Eng 1700.(Marcus) Hrd some days s/on 1600. This spot usually under heavy QRM.
(Niblack) 1700 Eng ID, QRM Paris, Abidjan.(Calkin)
- 1925 E.GERMANY. RBI, new fqy, 1900-2015 Arabic, QRM Austria.(Berghammer)
- 1925 UZBEK SSR. R.Tashkent, Eng 1220, //9600.(Marcus) Eng nx 1200.(Randall)
- 1930 CONGO REP. ORTF, local ID, Eng nx to 1930, //15190.(Calkin)
- 1930 RSFSR[Eur]. Moscow(list), 0435-0440 Russ HS. Definitely European.(Palmer)
- 1940 KUWAIT. KBS, 1715 time checks, ID, nx, weather, 12/22.(Koukol) 1601-1731 all
Eng, nx, weather, pops. Abrupt s/off 1731, 12/21.(M.Kamp) 1600 s/on Eng, 1/5.
(Michalenska) Eng 1600-1730, 1/7.(Banta) Eng nx 1615.(Brown)
- 1940 RUMANIA. Bucharest, good in Eng 1940.(Marcus) Eng 0455.(Tenenbaum)
- 1945 KAZAKH SSR. Alma Ata(list), 0606-0620 Russ HS, //Armavir-12000. This may be
N.Fur.RSFSR QTH. But I'll buy Alma Ata till someone says different.(Palmer)
- 1948M PARAGUAY. R.Encarnacion, ads 0145.(Niblack) 'musica paraguaya' 0100.(Wood)
- 1950 BRAZIL. R.Min. do Educacao, Port 0100.(Berghammer) 2330 Port.(Seth)
- 1950 UKRAINIAN SSR. Kharkov(list WRTH69), 0425-0435 Russ HS, no ID 0430.(Palmer)
- 1951.5 SAUDI ARABIA. Riyadh, Arab mx 0430, drift.(Wood) Arab 1650-1710.(Palmer)
- 1955 MALAYSIA[Malaya]. BECFES, 0945-1000 Eng by Radio.(Berghammer)
- 1970 NEPAL. R.Nepal, Kathmandu, throughout sked 1220-1520, mostly Nepali.(Wood)
1220-1520 and 0220-0420. Best evenings 0300. Eng ID 0310. Weird IS.(Hall)
Weak, opening w/IS daily at 1218.(Poulis)
- 1970 USA. WNYW, new fqy, 1930-2200 Eng to Eur.(Berghammer)
- 1975 GRENADA. WIBS, cricket 0355. Relay ABC.(Wood) Eng 0135.(Marcus) Eng 0100.(Seth)
- 1990 CZECHOSLOVAKIA. Prague, 2030 s/on Fr to Afr, 12/21.(Williams)
- 12005 EGYPT. Cairo, in French 0230-0245 s/off.(Niblack)
- 12020 RSFSR[As]. Moscow Vietnamese 1500-1600. Armavir unlikely tx.(Berghammer)
- 12030 RSFSR[As]. Novosibirsk(listed), relay Moscow 0324.(Akins)
- 12045 USSR. unlisted, 0045-0505 Russ, Moscow relay. 6 pips 0500, then nx. Isn't it
ever anything but 6 o'clock in Moscow?(Palmer) You mean 0450 or 0045?(Ed)
- 12060 RSFSR[Eur]. R.Moscow Sp to Eur 2130.(Berghammer)
- 12070 UKRAINIAN SSR. Kiev(list), 0600 relay Moscow HS. 6 pips 0600, //12000.(Palmer)
- 12155 HONDURAS. LV del Junco, 2x6077.5, ID 2313. 3rd harmonic hrd 2255.(Hauser)
- 15015 CHINA. R.Peking, 0000 Chinese.(Seth)
- 15020 N.VIETNAM. Hanoi, fair 0009 in lang.(Koukol)
- 15055 EGYPT. R.Cairo, 1515-1600 Dankali to E.Afr.(Berghammer)
- 15060 CHINA. R.Peking, 0053 Eng to NA.(Banta) 0830-0930 Eng to ANZ.(Berghammer)
- 15060 CLANDESTINE. R.Euzkadi, 2040-2110 Sp, Basque, 1/1.(Palmer) 2100.(Marcus) Sp ID
2130. Address?(Baltimore) 2245-2300s/off.(Niblack) 2230 Sp, Basque.(Banta)
2243-2304 s/off Sp, Basque.(Tuchscherer)
- 15070 ENGLAND. BBC, WS 1800, cmtry, drama.(Horie) Eng to ME 1745.(Moore)
- 15080 INDIA. AIR, Bombay, Eng nx 1905.(Marcus) Weak w/Indian mx around 1800.(Dexter)
- 15084 CLANDESTINE. R.Euzkadi, 2150-2205 s/off in Sp, Basque.(Palmer)
- 15099V GRENADA. WIBS, 2300 BBC nx.(Berghammer) 15100, BBC nx 2245.(Palmer) 15095, BBC
nx 2245.(Koukol) 15090, Eng 2055, good.(Marcus)
- 15095 CHINA. R.Peking, 0300 s/on Eng to NA.(Caldwell)
- 15115 CHINA. CPBS, Peking, new fqy, believe //15140. Think s/off 0100.(Palmer)
- 15105 JAPAN. R.Japan, 0200-0230 Gen Svc, //15195, 15300.(Berghammer) Eng 0200(Randall)
- 15115 SAUDI ARABIA. Jeddah, s/on Indonesian 1300, strong.(Padula)
- 15120 ECUADOR. HCJB, 0230 usual pgms.(Baltimore)
- 15125 TAIWAN. VORC, 0200 Eng, good cond. 12/29.(Berghammer) Fades after s/on Eng 0200.
(Macken) Eng 0200.(Miller) Eng to 0230.(Banta) Nx, ID 0215.(Koukol) Eng 0220.
(Marcus) 0225.(Kagey) Eng talk, mx 0212-0240.(Tuchscherer)
- 15135 IRAN. R.Iran, good in lang 1900-1925.(Marcus) S/on Iranian 1600.(Calkin)
- 15140 BRAZIL. R.Jornal do Comercio, 2050 Port, Brazilian mx.(Palmer)

- 51 BRAZIL. R.Dif., Sao Paulo, Port till s/off 0302.(Macken)
 5155 LIBERIA. ELWA, Fr ID 1745.(Marcus)
 5156.5 TURKEY. F.Ankara, drift, Turkish talk 0715.(Wood) 15160, Fr 1900.(Marcus)
 5162 E.GERMANY. RBI, here 12/15. Swahili 1600-1700. Sked 15145. Accident?(Berghammer)
 5165 DENMARK. R.Denmark, 1445-1515 Eng to S.As.(Berghammer) Fr nx to 1912.(Marcus)
 5170 PHILIPPINES. R.Veritas, Manila, test, Filipino mx 1125.(Wood)
 5170 LIBERIA. ELWA, 2050-2100 Fr, then Arab. Rel pgms. ID in each lang 2100.(Palmer)
 15175, Arabic 1915-1930.(Tenenbaum)
 5175 EGYPT. R.Cairo, 1730 Arabic.(Berghammer)
 5175 PHILIPPINES. VOA, Malalos, Burmese 0030-0130.(Berghammer)
 5185 CHINA. R.Peking, new, 0110 Eng to NA.(Palmer) Sp 0010.(Menna) Anthem 0155, to
 NA. Booking lvl.(Niblack) Eng 0100.(Seth)
 5185 FINLAND. OYA, Finnish 1400, 40 over.(Berghammer) 1215-1515 Finnish, Swedish.
 Eng ID at closedown. Also s/on 1600 Eng ID, into Finnish/Swedish til 1800. Then
 Eng 1800-1830. First time hrd in many months.(Calkin) Eng to NA 2300.(Seth)
 5185 FRANCE. ORTF, 1900-2000 relay HS to ME, //11920, ex-15160, 1/7.(Berghammer)
 5190 CANADA. CBC, 2140-2150 Eng to Europe. Sports, news.(Landolt)
 5190 CONGO REP. ORTF, 1915-1930 Eng nx. Fr to 2045 s/off.(Palmer) Excellent with
 accordian mx, 1926 in Eng.(Koukol) Eng nx 1915.(Mas) Eng 1920.(Tenenbaum) Eng
 1915, to Afr.(Breton)
 15200.5 ALGERIA. RTVA, Fr 1400. Sked 1200-1430.(Berghammer) Arab 0900 Sun.(Padula)
 15205 INDIA. AIR, Delhi, Eng nx 1230.(Wood)
 15210 PHILIPPINES. VOA, Weak in Eng 0133. Which city?(Macken)
 15220 AUSTRALIA. RA, Eng 2221, Bonaire off 5 min.(Macken)
 15210 VATICAN. V.R., new fqy, Eng 1715, Fr 1725.(Niblack) S/on 1630 Eng to Africa.
 (Padula) 1725-1740 Fr to Afr.(Berghammer) Out of order. Sorry.(Ed)
 15225 BRAZIL. R.Cul. da Bahia, 0020 weak in Port.(Palmer)
 15230 CEYLON. R.Ceylon, 0245 local ads, Eng pgm.(Calkin)
 15235 INDIA. AIR, GOS, Eng to E.As., s/off 0115. Signal varies.(Berghammer) 0015 Eng
 ID and off. Heavy QRM.(Calkin)
 15240 SWEDEN. R.Sweden, 1400-1430 Eng to Asia.(Berghammer)
 15240 USA. KGEL, Sp nx 0030. Strong.(Menna) Eng ID 0030.(Seth) 2300 ID, light mx.(Horie)
 15245 CONGO(DR). Kinshasa, 1920-2200 Fr. R.RSA covers them 2200. Then RSA gets
 clobbered from both sides as KGEL-15240 and VOA(Gvl)-15250 both s/on 2215. Evens
 up the score!(Palmer) Strong 0130 Afr mx, Fr.(Koukol) 0000 music, French IDs.
 (Matthews)
 15250 PHILIPPINES. VOA, Poro, 1500 Indonesian.(Berghammer)
 15254 VATICAN. V.R., Arabic 1800 on new fqy.(Niblack) 1905-1920 Arabic to NW Afr,
 sked //11760, which is covered.(Berghammer) Eng 1945-1950 s/off. New.(Macken)
 15270 AFGHANISTAN. Kabul, s/on Pushto-Dari 1200, mixed w/Peking.(Padula) 1200-1300
 Pushto-Dari to Eur, //21605 which is better) Berghammer)
 15273.5 URUGUAY. SCORE, Montevideo, 'el caballero uruguayo' 0100.(Wood)
 15275 W.GERMANY. D.Welle, s/off Eng to Asia 0940.(Macken)
 15275.5 POLAND. Warsaw, 1300-1330 Eng to Afr, //17863. QRM DW. Dual path(Berghammer)
 15285 GHANA. R.Ghana, 1815-1900 Eng to E.Afr, thru Havana.(Berghammer) 2155 Eng to
 Eur, //9545. Sked s/off 2215.(Palmer) S/off 2205.(Randall) 12/28.(Palmer)
 15290 GHANA. R.Ghana, 2045-2115 w/Eng external svc, 12/21.(Williams)
 15290 PHILIPPINES. VOA, Poro, 0100 Eng nx to SEA.(Berghammer)
 15290 SPAIN. R. Liberty, Russian talk 1720, over jamming.(Padula)
 15300 EGYPT. Cairo, s/on Arabic 0300. New fqy.(Niblack)
 1 1 GUINEA. Conakry, drifting, French 1730.(Berghammer)
 15315 ETHIOPIA. ETLF, 1345-1428 Telugu to India.(Berghammer)
 15320 AUSTRALIA. RA, Eng 0445, good lvl.(Caldwell)
 15325 AUSTRIA. Vienna, Ger to E.As. Ex-15400, 1/12. Sked odd days!(Berghammer)
 15335 INDIA. AIR GOS, Eng to SEA 1330-1500, //11610, also hrd.(Berghammer)
 15340 LEBANON. Beirut, 2300-0100 Port, Arabic, Sp, to LA, ex-15285.(Berghammer)
 15340 NETH.ANT. TWP, s/on 2000 to Eur. Hungarian, Fr, Gre, to 2125 s/off.(Palmer)
 15345 TAIWAN. VICE, Chinese 0300 (Caldwell) Eng 0200. weak.(Breton)

- 15345 TAIWAN. VOFC, Chinese 0300.(Caldwell) Eng 0200, weak.(Breton)
- 15349 LEBANON. Beirut, Eng 1830, ex-21610, QRM Lux.(Berghammer) S/on 1830, IDs, anthem, Eng nx on 15350.(Padula)
- 15350 LUXEMBOURG. R.Lux., 1830 French. QRM Lebanon.(Berghammer)
- 15350 NETH.ANTILLES. TWR, Sp to 2300, Port to 2330. 0120 Russ, Sp 0130.(Palmer)
- 15360 MOROCCO. Rabat, 2310-0000s/off. Sp, Sp mx, Arab mx.(Palmer)
- 15360 S.AFRICA. R.RSA, 2000-2050 Port to Angola, //17805.(Rowell)
- 15363.5 NIGERIA. VoN, Lagos, drift, Afr rhythms 0725.(Wood) 15360, 1810-1840 Eng, native mx.(Palmer) 15363, 1929 drum IS, Fr nx.(Hauser) Eng 1915, fair.(Banta)
- 15372 BRAZIL. R.Tupi, drifting, Port 2130.(Berghammer)
- 15375 ITALY. RAI, new fqy, s/on Italian to ANZ, 0600.(Padula) 0415-0530 to E.Afr in Amharic, Italian, Somali, //11905, 17795.(Berghammer)
- 15385 PHILIPPINES. FEBC, 2330 Eng, good.(Caldwell)
- 15400 ETHIOPIA. ETLF, 1400-1425 in Tamil to India.(Berghammer)
- 15415 BRAZIL. R.Clube de Ribeiro Preto, 0137-0145 Port.(Palmer)
- 15420 PHILIPPINES. SEARV, Manila, s/off Eng to SEA 1233.(Wood)
- 15425 AUSTRALIA. VLX15, Perth, 0230 commentary.(Calkin)
- 15430 S.KOREA. VCFK, Korean 0208.(Palmer) Sp 0230.(Marcus) Live relay AFKN on release of Pueblo crew, 0255.(Hirst) Eng to NA 0300.(Miller) Nx, comment, mx, 0300. (Horie) 0300 Eng to NA.(Caldwell) 15432, s/off melody 'Arirang', 2302.(Wood)
- 15435 MALAYSIA. BBC FES, 2300-2315 WS nx to S.China, list 7.5 kw.(Berghammer)
- 15440 PHILIPPINES. FEBC, 0140 Eng.(Palmer) Eng rel 0150, ID, TC 0200. Odd time.(Hirst)
- 15445 JAPAN. NHK, fair 2345-0045 Eng to NA.(Baltimore, Menna, Michalenka, Seth)
- 15500 E.PAKISTAN. Dacca, 1128 chants, lang talks. Poor.(Kagey)
- 15518V E.PAKISTAN. Dacca, 0130-0330 'Inter-Wing Svc', Urdu, Bengali, Eng. Is 100 kw acc WRTH69.(Berghammer) 0150-0255 fade, Eng nx 0210.(Palmer) 0058 ID.(Koukol)
- 15520 CHINA. R.Peking, 0020-0035 Sp to LA.(Palmer) Sp 0028, //17675.(Baltimore)
- 16322A N.KOREA. Pyongyang, 2332 Sp to 0000, Korean to 0040. Also, 0140-0150 w/Sp. (Palmer) Sp w/beautiful sig 0100.(Macken) 2300 Sp, 0000 Korean, 0100 Sp.(Calkin)
- 16342 CHINA. China Press Agency, Peking, 2332-0040 Chin. dictation nx, //16105(Palmer) 2348 YL in Chinese dictation, list 16340.(Hauser)
- 17675 CHINA. R.Peking, 0000 Eng.(Seth) Poor 0130 in Eng.(Lewis)
- 17720 TAIWAN. VOFC, weak in Eng 0305, //17780.(Marcus) Eng 0300.(Calkin) 0200, now IS at s/on.(Matthews) Eng 0200 to KA.(Miller)
- 17730 FRANCE. ORTF, 0000-0030 Port to LA.(Berghammer)
- 17730 NETHERLANDS. R.Ned., 1745 Dutch, //15220. App replace 21575, sked 1730-1850 to Africa.(Berghammer)
- 17730 MALAGASY REP. Tananarive, s/on 1330, test Eng/Fr.(Wood) Weak w/IS 1430.(Calkin)
- 17735 PHILIPPINES. VOA, Poro, 0100 Eng to SEA.(Berghammer)
- 17740 ASCENSION IS. BEC, new fqy for African svc 1700-1745, ex-17830, //11820, 15105, 15420, 21630, 25670.(Berghammer)
- 17765 RWANDA. Kigali, DW, 2003-2015 s/off in Hausa. Good sig.(Palmer)
- 17770 N.ZEALAND. R.Z, 0045 Eng, 1/4 - good opening.(Berghammer)
- 17785 CONGO REP. Brazzaville, end Fr pgm, s/off 1400 w/ID.(Padula)
- 17785 EGYPT. R.Cairo, sked 1615-1745, noted 1700 in Zulu.(Berghammer)
- 17785 JAPAN. NHK, 0000 Eng nx.(Seth) Lang lesson, nx 0245.(Horie)
- 17795 S.AFRICA. R.RSA, 1910-1950 Eng to UK.(Landolt)
- 17795 SWITZERLAND. SBC, Berne, new fqy, s/on 1000 Eng to Afr.(Padula) 1000-1100 Eng to Afr, ex-17855, //15305, 21520, 1/12.(Berghammer)
- 17805 S.AFRICA. R.RSA, Eng to Nigeria, Ghana 2112-2150.(Landolt) Eng 1826.(Moore)
- 17810 KUWAIT, Arabic, nx 0400.(Testing this fqy, not nitely.)(Wood)
- 17810 PHILIPPINES. FEBC, 0032-0112, Chinese drama to 0000, then Eng.(Palmer) Eng ID 0000, Mandarin.(Seth) Eng by R. 0000. Eng 0100 to SEA.(Miller)
- 17815 ETHIOPIA. ETLF, test tx to FE, Saturdays 1315 in Mandarin.(Padula) Eng to Far East 1200.(Wood)
- 17820 CANADA. CBC, Eng to Afr 1835.(Moore)
- 17825 JAPAN. NHK, Tokyo, 0020 in NA svc, Eng.(Banta)

- 78 PHILIPPINES. VOA, Poro, 2330 Cambodian.(Berghammer)
 7857 CHINA. Peking, Chinese Mac talk 0450.(Wood)
 7863 POLAND. Warsaw, 1300-1330 Eng to Afr, //15275.5. Most Warsaw channels are drifting.(Berghammer)
 7870 AUSTRALIA. RA, 0845 Eng to SEA. Longpath.(Berghammer) Eng nx 2336.(Banta)
 7880 AUSTRIA. Vienna, new freq, Eng commentary 1740.(Padula)
 7880 MALAYSIA[Malaya]. BEC FES, good lvl s/on 0000 Eng ID, freq quotes.(Niblack)
 7885 CUBA. Havana, Quechua to SA, ID 2158.(Landolt)
 7890 TAIWAN. ECC, Taipei, s/on Thai 1200.(Wood) Eng 0215.(Caldwell)
 7930 EGYPT. R.Cairo, Arab mx 0030.(Wood)
 7940 RSFSR[As]. Irkutsk area, 3x5980, Russian 0030.(Wood)
 7945 W.PAKISTAN. Karachi, 1340 w/nx.(Menna)
 9090 USA. VOA, Delano, 2x9545, 1652-1700 s/off Chinese.(Hauser)
 9130 USA. VOA, Dixon, 2x9565, lang 1651.(Hauser)
 9210 USA. VOA, Dixon, 2x9605, lang, s/off 1700.(Hauser)
 9366 ARGENTINA. RAE, 2x9683, Sp 0143.(Hauser)
 7995 BELGIUM. RTB, sports pgm w/mx fills, hrd on Sundays, including 1/12, at 1405 in Dutch. 1409 ID in Fr by YL, 1415 sports. Fairly strong. Not image or harmonic, so maybe spur of listed 17750 and 17860. Inquiry sent.(Hauser) Out of order(Ed)
 21454 NIGERIA. VoN, 1330-1430 Fr to E.Afr.(Berghammer) 1900-1905 Anti-Biafra comment. (Palmer) 1800-1930 Eng, 'Nigerian Voices', mx, nx.(Miller)
 21475 E.GERMANY. RBI, 1215-1300 Eng to W.Afr, //21600 to C.Afr.(Berghammer)
 21495 PORTUGAL. R.Port., 1345-1430 Konkani.(Berghammer) Eng nx 1900-1915 s/off(Niblack)
 21500 CONGO REP. R.Brazzaville, 1300-1400 Fr to FE.(Berghammer) S/on relay Paris Fr. 1000.(Wood)
 21500 S.AFRICA. R.RSA, 1800-1850 Fr to Eur, //17795.(Rowell)
 21540 AUSTRALIA. RA, Eng to S.Asia, 0130. Weak.(Berghammer)
 21575 RSFSR[Eur]. Moscow, 'Mayak', 1715, //Lvov-21565.(Matthews)
 21590 CANADA. CBC, Czech to Eur 1740.(Moore)
 21590 W.PAKISTAN. Karachi, 1335-1350 Eng dictation nx to ME, //17945, 15100, 11875, over VOA.(Berghammer)
 21620 FRANCE. ORTF, French 1730, //21650.(Moore)
 21635 AZERBAIJAN SSR. Baku(list), Moscow Vietnamese 1300-1330.(Berghammer)
 21640 ENGLAND. BBC, s/on Rumanian 1100.(Padula)
 21675 SWEDEN. R.Sweden, 1400 Eng.(Seth) 1400 SCDX, 1000th, 1/7, used my tip.(Matthew)
 21685 USA. VOA, 1300 Port, 12/24. Added for Apollo 8.(Berghammer)
 21690 SWEDEN. R.Sweden, Eng s/on to Africa 1230.(Wood)
 21695 RSFSR[Eur]. 1300 Russ HS, ex-21700.(Berghammer) QTH anyone?(Ed)
 21700 PORTUGAL. Em.Nacional, 1735-2115 to Afr, Brazil.(Rowell)
 21715 RSFSR[Eur]. R.Moscow 1300-1330 Urdu.(Berghammer) Tx QTH?(Ed)
 21725 RSFSR[Eur]. Leningrad, 1200-1230 'Peace and Prog', 1430 'R.Rodina'.(Berghammer)
 21730 RSFSR[Eur]. Leningrad, relay Moscow HS 1600.(Matthews)List 21730 WRTH69.(Ed)
 21740 AUSTRALIA. RA, 0100 Eng to NA, many good nights.(Berghammer) 0100 Eng s/on to NA.(Seth)0110 Eng to NA. Fadeout 0140.(Banta)0100 s/on Eng to NA.(Miller)
 24256 COSTA RICA. R.Reloj, Lx6066.25, sports 1745, distorted audio.(Hauser)
 24500 ENGLAND. BBC, Lx6125 is likely solution for Russian here 1705, 12/25.(Hauser)
 24600 ENGLAND. VOA, Woolferton, Lx6150, Czech Christmas pgm 1735, 12/25.(Hauser)
 25610 NETHERLANDS. R.Nederland, 1645-1700 Eng nx Tue, Fri only to WI/NA.(Berghammer) S/on Dutch to Australia 1000.(Wood)1710 Eng/Dutch nx to NA.(Moore)
 25730 ENGLAND. BBC, London, 1709 Eng.(Mocre)
 25730 ENGLAND. BBC, 1200-1300 Mandarin.(Berghammer)
 25730 NORWAY. R.Norway, Bach cantata, pwrful 1620, 12/25.(Sizer) Eng 1600.(Seth)
 25790 S.AFRICA. R.RSA, 1600 Eng to ME.(Seth)
 25900 NORWAY. R.Norway, 1705 Norwegian.(Moore)
 25920 ENGLAND. BBC, Fr to Africa, 1200-1330.(Berghammer)
 30660 USA. AFRTS, Bethany, 2x15330, feature desk 1657.(Hauser)

UNIDENTIFIED

- 235 VENEZUELA. S/on 1000. Don't believe ~~is~~ Em.Vargas as listed WRTH. In ID-reference to 'R. Contiente'. So, I believe owned by same company or in same net. (Field)
See Jan-Em.Vargas rptd this time. WRTH69 lists LV del Tigre as rptd here. (Ed)
- 365 Probably African. IS from 0540, celeste or bells, to 0600 s/on. Spoiled by SSB. Seemed to be Eng, w/ad noted 0611, 12/20. (Hirst)
- 715 Portuguese speaker fair at 2045. (Marcus)
- 972 Possibly Cameroon, 0552 in heavy RTTY. Afr type mx, seemed to be vernacular, though Eng sked WRTH to 0600, 12/11. (Hirst)
- 040 0700, 1/5 only. Musical pgm 'A Voz de Forencia', or similar. Port ID 0755, with gong, fqys on SW and MW. Seemed to be some Fr before 0755. Past 0835. (Field)
- 5365 VCA, weak 2250 w/Breakfast show. Flutter suggests Asia. (Marcus) Neither Okinawa, nor Philippines listed this time. Monrovia-15370 is list this time. (Ed)
- 4300 Weak harmonic here around 1730. What European on 6075 this time? (Hauser)

IDENTIFIED: 5960-Jan, Shaler Hanish says it's Pico XXI, up from 5955. (Hauser)
CORRECTIONS: 4890-Jan, Yes, BBC nx. (Hauser) That's what I get for typing at 2AM. (Ed)...
020-Jan, The Colombian here is LV de Colombia. (Hauser) Thanks, Glenn. And apologies to Dr. Tom Williamson, who reported it correctly for January. (Ed)... 9725-Jan, RFE is Portugal on this freq according to current sked. (Hauser)... 3340-Dec, My list shows 340. 2470 dropped. (Wood)... 4823-Dec, In Vietnamese, HS. (Wood)... 7205-Dec, Not [As], but [Eur]. (Wood)... 9545-Dec, Paranaense. (Wood) Correctly reported, my error. (Ed)
IDENTIFIED: 5025-Dec, Voz do Rio Sao Francisco most often hrd. (Wood)... 9570-Dec, Yes atar. (Wood)... 9520-Dec, Doubtless R.La Cronica. (Wood)

It is not necessary to use the NASWA LOG REPORT FORM when reporting. Those of you who wish to use the forms may obtain a supply for a stamped self addressed envelope. Also available is an index to Friendx for 1968 - one 6 cent stamp will do the trick. Or an IRC. Send your request to your Log Report Editor.

SPECIAL THANKS TO THE FOLLOWING MEMBERS WHO REPORTED IN THIS MONTH

- | | |
|------------------------------------|--|
| Ronald S. Akins, Sr., Mo., Zenith | Rudolph Menna, Pa, Zenith |
| David M. Baltimore, Pa., {?} | Hank Michalenka, RI, GR-64 |
| John Banta, NY, SX-110 | Tom Miller, Mo, HQ-120, Star Roamer |
| Bill Berghammer, NY, R-4A | Harrison G. Randall, Mass, Telefunken |
| Joe Breton, Mass, S-53A | Paul Moore, Ohio, Star Roamer |
| Kevin Brown, Mich, Masterwork | A.R. Niblack, Ind, SX-100 II |
| William G. Caldwell, Cal, SW-4A | Bob Padula, Australia, CR-100, HE-230 |
| Gregg A. Calkin, N.B. SW-4A, S-108 | Bob Padula, Fiji, HE-230 |
| Gerry L. Dexter, Wis, HQ-180 | Bob Palmer, Wash, HQ-160 |
| Bob Estand, Texas, DX-150 | Andrew Pappas, Ill, R-4B |
| Dan Ferguson, Fla, SB-310 | Art Poulis, Mass, SW-4, NC-190 |
| Marlin A. Field, Mich, SX-100 | Sam Rowell, Wash, DX-150 |
| Bob Hagerman, Mich, Star Roamer | Al Sizer, Conn, DX-15 0 |
| Earle Hall, Mass, HQ-180A | Michael Seth, NY, SW-4A |
| Del D. Hirst, Texas, HQ-100 | Bill Sparks, Cal, R-4B |
| Glenn Hauser, Colo, HQ-160 | Jerry M. Stuart, Okla, S-200, GR-64, |
| Roger S. Horie, Idaho, S-240 | G. David Tenenbaum, Ill, GR-64 |
| Lyle Hulser, Tenn, DX-150 | Dan Trigilio, Conn, |
| H. Price Kagcy, Pa, SB-310 | John D. Tuchscherer, Wis, HQ-180A |
| Steve Kamp, Texas, HQ-140-X | Rod Williams, Ga, SW-4 |
| Mike Kamp, Texas, HQ-140-X | Richard E. Wood, Hawaii, HQ-180A, R-530 |
| Craig C. Koukol, Ill, SX-130 | Dutte R. Yaghjian, Mass, S-120 |
| Dale H. Landolt, Ill, NC-88 | FBIS |
| Scott Lewis, Neb, Star Roamer | WRTH |
| Michael Macken, Mass, SX-100 | SCDX |
| Leslie Marcus, N.B., SW-4A | When reporting, please give make and model |
| Raymond Mas, NY, HQ-120-X | of your receiver. State the accuracy of |

HOLLAND: 25610 R. Nederland noted S/on at 1630 in Dutch, English 1649. (Ferguson)
NEW HEBRIDES: (FLASH) Radio Vila, 3905, QSL: my report of August 1967, via letter, with no date, no fqy quote, but properly signed. (Editor Don Billingsley, ASWLC).... New form QSL letter received from R. Villa after 14 months delay, FLASHES Sparks.

PERU: R. Chanchamayo, La Merced, 4896, fiesta music, 0800, like local lvl. (Sparks)

SAUDI ARABIA: 11950 Riyadh noted in Arabic around 1700, well heard lvl. (Palmer)

SUDAN: 4994 S/on at 0400 with "Huna Omdurman", heavy interference by 0415. (Hall)

USSR: 4610 Soviet Far East - WRTH lists Vladivostok, FBIS lists Khabarovsk, noted 1445 tuning in Korean. Any one know for sure the actual location?? (Palmer).... 5016 Vladivostok noted at 1448 tuning with Russian H.S. prgms. (Palmer).... 9665A R. Kiev's Mailbag Shw(Saturdays) heard at 0430 just below Moscow's 9670. (Palmer).... Vladivostok(for sure) on 9770, vy strong lvl at 0800 with Russian H.S. (Palmer)

VENEZUELA: 4980 YVOC, Ecos del Torbes, San Cristobal, found at 0335 at brilliant lvl, same for every Venezuelan outlet on the band. (Palmer)

VIETNAM(N.): (FLASH) 7290AV "The Voice of Vietnam, Hanoi", observed on this new fqy with English beginning at 1200, good lvl. (Dr. F. Earle Hall).... Hanoi found with program in English and the YL announcer said, "Beamed to American G. I.s! It was quite loud and S-9 lvl from 1200-1225. At 1225 an ARO's SSB signal went into operation and got the best of it. (Kagey)

CLANDESTINE: R. Euzkadi heard at fair lvl with mixed Spanish/Basque on 15060, 2040-2110, but upon returning at 2150 found they had moved up the band to 15084. Stayed with them till 2205 S/off. (Palmer)

LAST MINUTE FLASH: Just as we go to press Bob Hagerman, Michigan, reports that the Voice of Kenya, 4915, is again audible. Noted from 0335 tuning with native music, talks, ID, time quotes.

SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 1-16-69, FOR DECEMBER 1968

1-113 2-115 3-122 4-128 5-134 6-133 7-126 8-132 9-140 10-110 11-83 12-58 13-84 14-86 15-88 16-64 17-77 18-98 19-101 20-106 21-101 22-119 23-122 24-125 25-132 26-140 27-154 28-133 29-139 30-117 31-119. MEAN - 112.9

PREDICTED: JAN-96 FEB-94 MAR-92 MAY-89 JUN-88. (Veteran DXer and Friend Ferguson)

ERRATUM:(Courtesy of Richard E. Wood) Some corrections to past FS: ANGOLA, 5960, is rather, "Voz de Angola"; 4795, Sp. phrase, "R. Transmiste Caracol", is impossible. CARACOL is network but, "Radio transmiste", is not Spanish; 7296.6 is not Voice of Malaysia, but Radio Malaysia, Penang; 6005 R. Progreso, Bolivia(no double S in Spanish. (Our thanks to Richard for the fore-going, Editor)

ACKNOWLEDGEMENTS:(Thanks to those who made the effort to make this column possible)

August Baibi, California.... John Banta, New York.... Editor Henry Bennett, NNRC, New Jersey.... Editor Don Billingsley, ASWLC, California.... Gregg A. Calkin, NASWA QSL Editor, N. B. Canada.... Gerry Dexter, Wisconsin.... Grady Ferguson, No. Carolina Dr. F. Earle Hall, Mass.... Professor Alan Hickrod, Illinois.... H. Price Kagey, Penn.... Al Niolack, Indiana.... Bob Palmer, Washington.... Andrew Pappas, Illinois Al Sizer, Conn.... Bill Sparks, California.... Bill Stevens, Penn.... Richard E. Wood, Hawaii.... Swiss Broadcasting Corporation.

It has come to our attention that a segment of the NASWA membership would prefer that the Flashsheet carry only FLASHES, nothing more. To your Editor's way of thinking this is an impossibility as there are not many true flashes that come about during a 30 day span in the radio shortwave world. There is also bound to be some duplication of items, rehashing, a few run-of-the-mill items. It has always been our policy that each reporter should get fair and equal distribution on his material submitted, in-so-far as possible. We believe that most of you will agree in re fair representation. Hence, our policy of editing is not going to be changed in the future, unless it is the wish of the majority of the membership that the sheet shall edit nothing but flashes. If so, it may be necessary to cut back to one stencil a month. You may not agree with what has been said in the fore-going but you cannot say that we do not have a right to say it. PLEASE DO NOT SUBMIT MATERIAL TO THIS COLUMN THAT HAS BEEN ALREADY SUBMITTED TO OTHER NASWA DEPARTMENTS. THANK YOU. Last minute flashes