

THE GLOBE CIRCLER

SEPTEMBER — 1937



Main Studio of Famous Honolulu, Hawaii, Station KGU

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

BRAZIL BROADCASTING STATIONS

SUCCESS IN VERIFYING

CASH AWARDS FOR BEST NEWS-ITEM

IDA "PROGRAMS OF THE WEEK"

SHORT-WAVE NOTES AND LIST

BROADCAST STATION NEWS

ARGENTINA Blue and White network composed of LT3, LV2, LU2, LV7, LV10, LT5 and LV5, with LRL, "Radio El Mundo", as key station was inaugurated on July 1... It is rumored that LR2 will increase power to 125kW.

AUSTRALIA NEW: 2BE, Bega (1480kC), will be on the air soon; 5AN (890), 500w, Adelaide, So. Australia, will be opened about October (Wignall).

CZECHO- Present BCB stations are: Praha I.-Liblice (633kC), 120kW;

SLOVAKIA Praha-Strasnice (120kC), 5kW; Brno (922kC), 32kW;

Bratislava (100kC), 13.5kW; Kosice (1158kC), 10kW; (30kW.

Moravska Ostrava (1113kC), 11.2kW; Banska Bystrica (765m)-

New stations to be constructed this year are: Prague-Mel-nik; Brno (100kW), and Uzhorod (60/100kW) (Czechoslovakian Year Book)

JAPAN NEW stations to open soon are: JOMG (600kC), 500w, Kiyazuki; and JOKG (800kC), 500w, Koufu... JBCK (850kC), 1kW, at Seishu, Korea, be-

lieved to be on the air already... CHANGES: JQAK (760kC), 500 to 1000w; JOCK-2 (970kC), 10 to 50kW; MTCY (560kC), 100 to 10kW (Niven)

N.Z. 3ZE, Christchurch (will probably be on 1470kC), expected on air shortly... Two new 5kW commercial stations are to be erected at Southland and Hawkes Bay... The following stations have now left the air: 4ZL, Dunedin; 4ZR, Balclutha; 3ZM and 2ZF.

U.S.S.R. RW54 (540kC), 10kW, Khabarovsk, and RW52 (556), 20kW, Tchita, are being heard in New Zealand at present (Niven)

U.S.A. CALLS allotted to new stations: KELA, Centralia, Wash., 1200 kC, 250w day; KTBC, Austin, Texas, 1120kC, 1kW; KRAB, Lufkin, Texas, 1310kC, 100w day; KARM, Fresno, Calif., 1310kC, 100w; KTRI, Sioux City, Iowa, 1420kC, 100/250w; KDPE, Dubuque, Iowa, 1340kC, 500w day; WBRK, Pittsfield, Mass., 1310kC, 100/250w; WSAL, Salisbury, Md., 1200kC, 250w day; WLAW, Lawrence, Mass., 680kC, 1kW day; WTOL, Toledo, Ohio, 1200kC, 100w day. CALLS

CHANGED: WFPI to WAGA, Atlanta, Georgia (1450kC), 500w; WNBR to WMPB, Memphis (1430kC), 500w... POWER CHANGES: WFOI, St. Augustine, Fla (1210), 100 to 250w day; WJBY, Gadsden, Ala., (1210), 100 to 250w day; WAML, Laurel Miss., (1310), 100 to 250w day; KFBK, Sacramento, Calif. (1490), 5 to 10kW; KFBB, Great Falls, Mont. (1280), 1 to 5kW; WJBO, Baton Rouge, La. (1420) 100 to 500w.

NBC EXPANSION PROGRAM

Elaborate new studios, equipped with all the latest devices, including provision for television broadcasts, and occupying the entire top floor of the new Trans-Lux Bldg., in Washington, D. C., have recently been opened by NBC... Excavation for the spacious and elaborately equipped new studio building of WGY, Schenectady, N.Y., was begun on August 4, and it is expected the new building will be completed by late December. Work has also been started on WGY's new 600 foot vertical radiator antenna... Ground was broken last spring for the new KYW building in Philadelphia.

APPOINTMENT

OFFICIAL REP. FOR ARGENTINA: Manuel Barbera, 550 Maipu, Buenos Aires.

NEW ADDRESS

Items for October "Ama-Touring" should be sent to Ralph Gozen, 1 Richfield Avenue, Yonkers, N.Y., so that they will be received not later than October 1. Accompany all items with a 3¢ stamp.

BBC MEDIUM-WAVE TRANSMITTERS :
CHANGES IN WAVELENGTHS

INDEPENDENT programmes on different wavelengths, designed to serve listeners in Wales and the West of England, are now radiated by the BBC from its transmitting station at Washford Cross (Somerset), where two transmitters are available. Under the new arrangement, which came into force on July 4, one transmitter (70 kW power) radiates the Welsh programme, and the other (50 kW) the West of England programme.

As a result of this development, certain changes in the wavelengths of other BBC stations were necessary. A full list of the medium-wave transmitters, showing the wavelengths on which they are now working, is given below in order of frequency:—

Kc/s	LOCATION	POWER (kW)	PROGRAMME	METRES
200	Droitwich	150	National	1500
668	Moorside Edge	70	North	449.1
767	{ Westerglen Burghead	{ 70 60	Scottish	391.1
804	{ Washford Cross Penmon	{ 70 5	Welsh	373.1
877	Brookmans Park	70	Regional	342.1
977	Lisnagarvey	100	N. Ireland	307.1
1013	Droitwich	70	Midland	296.2
1050	Washford Cross	50	West of England	285.7
1122	Newcastle	1	Newcastle	267.4
1149	{ Brookmans Park Moorside Edge Westerglen	{ 20 20 50	National	261.1
1285	Aberdeen	1	Aberdeen	233.5
1474	{ Plymouth Bournemouth	{ 0.3 1	Regional and West of England	203.5

IDA'S "PROGRAMS OF THE WEEK"

(Director) Herbert Tucker, 57 Kenilworth Drive, Akron, Ohio

IDA "Programs of the Week" are something new and different in dx broad casts. The featured program each week will be a varied and interesting, four-star variety show carefully worked out for the enjoyment of the dx fraternity. A \$10.00 CASH PRIZE will go to that dx'er who verifies the greatest number of the "Program of the Week" broadcasts.

(4) SUNDAY, NOV. 21,	3-4am EST,	Colorado Springs, Colo.	1270Kc	1kw	KVOR
(5) SUNDAY, NOV. 28,	3-5am EST,	Mexicali, B.C., Mexico	750Kc	.2kw	XEAA
(6) SUNDAY, DEC. 5,	3-4am EST,	Albuquerque, New Mexico	1180Kc	10kw	KOB
(7) SUNDAY, DEC. 12,	2:45-4:30am EST,	Vancouver, Canada	1010Kc	.1kw	CKWX
(8) To be decided,	3-4am EST,	Chicago, Illinois	1130Kc	20kw	WJJD
(9) SUNDAY, DEC. 26,	3-4am EST,	Cleveland, Ohio	1070Kc	50kw	WTAM
(13) MONDAY, JAN. 24,	3-4am EST,	Rochester, New York	1150Kc	50kw	WHAM
(14) SUNDAY, JAN. 30,	3-4am EST,	Chilliwack, B.C., Canada	780Kc	.1kw	CHWK
(15) SUNDAY, FEB. 6,	3-4am EST,	Sheridan, Wyoming	1370Kc	.1kw	KWYO

EST-	DX TIPS PERIODS		EST-	
Weekly Monday	9:15-9:30pm	690 BC	CALGARY, Canada	CJGJ
Weekly Tuesday	5:35-6pm	9630/15330 SW	SCHENECTADY, New York	W2XAF/D
Weekly Wednesday	12:35-12:45am	1390 BC	PHOENIX, Arizona	KOY
Weekly Thursday	2:30-2:45am	1320 BC	HONOLULU, Hawaii	KGMB
Weekly Friday	11:30-11:45pm	6140 SW	PITTSBURGH, Penna.	W8XK

B C B D I S T R I C T H O N O R R O L L S

DISTRICT	-6-	Mich, Ind, Ohio, Ky, Va, W. Va, Penna, N. Y., Del, Md, N. J.
R. Tomlinson	26X N.Y.	CE62, CX34, HAE2, Dresden, Konigsberg (1348), LS8, LT3 HAE, HAE3, LS9, Gleiwitz, EAJ15, Poste de L'ile, HAE4, Antibes, Klaipeda, Grenoble, CX28, Burghed, Vlaanderen, Saarbrucken, Bregenz, RV36, LU7, HJLABR, LKD.
David Thomas	21X Ohio	VQ7LO, NRH, EAJ5, LOV, Santo Paulo, FN, PRAK, KZRC, 2BD, G6EM, IYX, VUO-VWCZ, Huizen, Warsaw, Droitwich, ZBW, ZTJ, CX20, OXP, Reykjavik.
Howard Eck	11X Mich	3KZ, PRA6, JOCG, Innsbruck, Stettin, Freiberg, JOVK, Augsburg, Trier, ZP5, Jerusalem. (TG2.
Ray Lewis	10X Ohio	LVL, TIC, 5DN, EAJ4, JODK2, JFAK, SWMC, Palermo, Naples
C. Wyborski	7X Pa.	HJ3ABH, CX14, TIRC, TIRCA, YNIGG, LS6, Cracow.
C. Lord	2X Ohio	NN, SN. J. DeMyer
D. Reynolds	2X N.Y.	Eiffel Tower, Riga I. Beitman
I. Goodeve	2X Mich	LZM, 6WF. H. Johnson
A. Bartholomew	1X N.Y.	Marconi L. Cavileer

NOTE MEMBERS OF 6TH DISTRICT: October G. C. will carry SW VIC and VAC Honor Rolls. Please have your latest VIC to me on or before Sept. 10th. Just drop me a card and let me know how many countries you have verified. Thats easy, isn't it? (John DeMyer, 545 Baker Street, Lansing, Mich.)

NEW I.D.A. MEMBERS

Ricardo F. Rubio, Havana, CUBA.
 Robert Pond, Indianapolis, Indiana.
 L. L. Groves, Somerville, Mass.
 George Carney, Detroit, Michigan.
 John L. Tate, Petersburg, Virginia.
 Miss Maria Mercedes Llamas, Aibonito, PUERTO RICO.
 W. H. Fletcher, Webster, Texas.
 Manuel Barbera, Buenos Aires, ARGENTINA, S. America.
 John Rubchinsky, Newark, New Jersey.
 Direzione Generale, E. I. A. R., Torino, ITALY.
 Robert Young, Erie, Pennsylvania.
 Kenneth Oelker, Cincinnati, Ohio.
 Louis Kellett, Girard, Texas.
 Clarence Hartzell, Jeanette, Pa.
 Carl Goulet, Dalhousie, N. C., CANADA.
 K. Stevens, Subiaco, WEST AUSTRALIA.

CORRESPONDENCE AND STAMP EXCHANGE

W. F. Herzog, Box 544, Center Moriches N. Y., wishes to exchange SWL cards with members in Africa, Asia and Australia.
Kendall Walker, Yamhill, Oregon, wishes to trade stamps, SWL cards, or postal cards with foreign members. All mail will be answered.
Charles Lebouef, 34 Nelson Street, Webster, Mass., wishes to exchange stamps with collectors in France, N. Z., Australia and South Africa. (either mint or used stamps)

SWL CARDS WITH IDA EMBLEM

The John P. Miller Printing Co., 6 Willow Ave., Ambler, Penna., is now able to furnish distinctive SWL cards of your own design, bearing the IDA official emblem.

Subscription price \$1.25 per year anywhere.

International

Published Monthly Excepting July



Dx'ers Alliance

CHARLES A. MORRISON
EDITOR

VOLUME 5

BLOOMINGTON, ILLINOIS, U. S. A.

NO. 8

EDITORIAL

Another DX season is with us! This should be our greatest year. With your co-operation we plan new features and new activities and it will be our continued endeavor to make the IDA ever increasingly worth-while and valuable to you. You can help by recommending the IDA to your radio friends and correspondents, and by paying your own renewal subscription promptly.

AUTO CITY (DETROIT) CHAPTER

Through the courtesy of the Detroit News, and it's S. W. Editor, A. B. Allen, AC Chapter is now holding its meetings the 3rd Tuesday of each month in the ultra-modern, and luxurious Conference Room of the Detroit News Building. Interesting features are being planned for future meetings and all dx'ers in the Detroit area are cordially invited to drop in at the ACC meetings and meet the gang! H. Lueth has been appointed temporary Chapter Chairman pending a regular election.

GOLDEN GATE (SAN FRANCISCO) CHAPT.

Despite the vacation season, a fair attendance was on hand for the July meeting of the GG Chapt. The first of the regular monthly dx reports were read and enjoyed. . . . Regular chapt. meetings are held at 8pm on the second Friday of each month at the home of Geo. Sholin, 55 Lapidge Street, near 18th and Valencia, in San Francisco. Any local dx'er is welcome to visit GG meetings.

GLOBE RADIO DX'ERS CHAPT.

(Australia)

Results in recent GRDXA contests for 1936-37 season are as follows: "Association Broadcast Champion".. (Womens section)-Mrs. M. C. Brown, 162 Wellington Rd., Paynham, S. A. . . . "Association Shortwave Champion".. (Womens section)-Miss P. Geppert, Box 78, Narrandera, N. S. W. . . . "Globe Association Broadcast Champion"-(154 veri's)-B. M. McCarthy,

11 Summer Ave., Northcote, Vict. . . . "Centenary Association Shortwave Champion"-(104 veri's)-G. Hutchins 10 Ordnance Qtrs, Marybyrnong, Vict. . . . An Australian bulletin is planned for GRDXA members to supplement the "Globe Circler" . . . An official sticker for GRDXA use is now available.

MALTA JEWEL OF MEDITERRANEAN CHAPT

Although chapt. meetings have been suspended during the summer season, members have been doing a little dx'ing and the following QSL's have been received: Poste-Bizertin, Tunis; FT4AG, Tunis, and F3GZ, Algeria (Trapani) . . SM5SV (Mercieca) . . GM2DI, TP A3, OLR5A and SM5SV (Agius-Gilibert). Also a number of new stations have been logged and veri's applied for.

LONDON EPSILON CHAPTER

The Field Day idea went over with a bang. One group, including Messrs. Knight, Gray, Simms, Tremaine, and Haylock, erected an antenna on the highest spot of land on Danbury Common. Stations worked from 1 to 3pm include G80A, ON4RJ, G6MU, ON4CC, GI5UR, G2VF, G6MH and G2TT. . . The other unit, consisting of Messrs. Elaber, Campbell, Walker and Hooper, erected their aerial in a field near the home of A. J. Walker. The first station worked near lpm was a D4, after which several more hams were contacted. . . Dr. E. S. G. K Vance has now acquired a full transmitting license with call, G8SA. He would like American hams to watch for his frequencies of 7.013 and 7.163 megs.

REGINA JUBILEE CHAPTER

July meeting at home of Mr. Kohl was well attended. . . Plans for dx period and program over CKCK was discussed. It was decided to hold social meetings the third Thursday in each month throughout the coming season, while the first Sunday afternoon of each month would be devoted to chapter business details. . . An active membership drive is soon to be started.

FOREIGN AFFAIRS DEPARTMENT 37/38

- H. Tucker, 57 Kemilworth Drive,
Akron, Ohio.
- L. Ambrosius, 1787 Wilson Avenue,
Louisville, Kentucky.
- Roy Myers, 814 S. Fedora Street, Los
Angeles, California.
- Kendall Walker, Yamhill, Oregon.
- Prof. W.K. Jones, Miami University,
Oxford, Ohio.
- Elwin T. Smith, Harrah, Washington.
- Lyle Nelson, Yamhill, Oregon.
- Art McLean, Regent Hotel, Revelstoke
B. C., Canada.
- Ashley Walcott, 76 San Rafael Way,
St. Francis Wood, San Francisco.
- R. H. Tomlinson, 125 Terrace Avenue,
Port Chester, New York.

LATEST BROADCAST VERI'S REPORTED

- A. Bartholomew, Bradford, N.Y.: PRF3
- A. Johnson, New York City, N.Y.: 4YA
- R. Lewis, Toledo, Ohio: TG2
- S. McVicker, Brooklyn, N.Y.: LRL
- D. Thomas, Proctorville, Ohio:
- Reykjavik.
- R. H. Tomlinson, Port Chester, N.Y.:
HJLABR, LKD
- M. Vanderhaeghe, Detroit, Mich: LRL

REGISTRATION OF STAMP COLLECTORS

Preparatory to initiating a program of activities for IDA members of the Stamp Guild, Director Elwin T. Smith, wishes EACH stamp collector to write to him at Harrah, Washington, and answer the following queries: (1) Name, age and address. (2) Type of collector; general or specialized. (3) Countries specialized on. (4) How do you collect: buy; buy and trade, or just strictly trade. (5) Do you collect precancels? explain type. (6) Do you collect First Day Covers? Explain fully what you wish, and how deep you go into the hobby. (7) Do you collect Blocks or single copies? (8) Do you collect other stamps such as wines, documentary, etc.?

AWARD FOR BEST NEWS-ITEM EACH MONTH

Starting with the October Globe Circler, we will award EACH month to the member who, in our estimation, submits the best short-wave news-item for publication, a cash prize of \$1.00.

Your item, or items will be judged from the following standpoint: whether you have submitted an exclusive item; whether you are the first to report some important news-item; is your item of unusual interest; does the item give more complete details than other reports of the same event;

are the details in your item more accurate and authentic than other accounts; in other words, is your item A SCOOP? Someone will win this little award each month, it might as well be YOU. By adding this little additional incentive to shoot us hot news-items at once we hope to enhance our reputation of being FIRST WITH THE LATEST.

WE APOLOGIZE

If the photograph of your listening post has not been published as yet, don't be disappointed. Due to the very limited space available for photographs, quite a large number of snapshots have accumulated here at HQ. We will get to yours as fast as possible.

GROUPING COUNTRIES BY CONTINENTS

Are you satisfied with our present common-sense grouping of countries in the S. W. section, or should we adopt the official plan used by the ARRL? For example, where should Hawaii be placed? -- with Asia or with N.A.? should azores be classed with Europe or Africa? should we list Oceania, and if so should it include the Philippines? Should the West Indies be classed with N. A., C. A., or S. A., or be divided up between the three? etc. Give us your ideas on this matter.



TED HORTON,
NEWBURGH, N.Y.



C. PETERSON, PHILIPS-
BURG, ST. MARTIN, DWI.



CHARTER IDA MEMBER, ROY CATTELL,
NOW "GRACE LINE" RADIO OP.

S U C C E S S I N V E R I F Y I N G
(IDA Vice President John DeMyer, Lansing, Michigan)

NOTE: If you are not satisfied with your percentage of verifications carefully study the suggestions given by Mr. DeMyer in this timely article. With one of the finest collection of veri's in existence and experience covering 17 years, Mr. DeMyer feels that in a great many cases failure to receive verifications upon reports sent is due to the dx'ers neglect to observe the basic rules for success.

After 17 years in DX, I find that securing veri's from stations heard, continues to be the major problem confronting dx'ers. There may be several solutions to this problem; none have been found that are 100% effective. However, there are simple rules that I think it advisable to follow. I am outlining my policy in this article, and especially dedicating it to the beginner in DX.

There are several phases of DX of particular interest, namely broadcast band dx; shortwave broadcast dx; commercial phone dx and amateur phone dx. The most difficult stations to obtain veri's from are the amateurs. Their transmitters are privately owned, carry no commercial broadcasts, and therefore receive no revenue. It is an expensive proposition for these stations to send QSLS (veri's) to the hundreds of listeners that report them. I heard LAIG, of Oslo, Norway, state that his postage bill in answering reports was over \$4.00 for one month. I find the percentage of replies is much more favorable from broadcast stations. Possibly they receive fewer reports in proportion.

The first step in securing a verification is to actually tune in, properly identify, and make a comprehensive log of the station. Be SURE of your identification. Merely 'sensing' that you have heard a certain station is not a good practice. In making your log, carefully note specific items heard, giving exact date and time, and frequency station is operating on. In giving time, it will perhaps be better to give it in GMT (five hours ahead of EST). It is better understood by foreign stations. This is important so that the station may confirm beyond doubt that your report corresponds with their transmission. Note also the quality of transmission. The well known QSA/R system may be used. Notes on modulation and fading will be of value to the station.

Now you are ready to send in the report and request verification. Be sure to write very plainly or bet-

ter still type your report. Return postage should always be enclosed. You may secure an International Reply Coupon at your local Post Office at .09¢ each. They are good for one first class letter rate in any country of the postal union. They should always be used in sending reports to foreign countries. Make your report interesting and courteous. It is well to send some little souvenir such as a photo of yourself or listening post, a postal card picture of views of your city, your own SWL card, etc. I know one listener who always encloses a little souvenir bale of cotton. These little tokens are especially interesting to foreign stations. When you mail your report be sure you have it correctly addressed.

Do not be discouraged if the station doesn't answer your report as promptly as you think they should. If you must send a follow-up letter to foreign stations, wait at least six months for your reply before doing it. Do not criticize the station for not answering your report. If you send a follow-up letter, it is better to be very courteous and suggest your former report may have been lost.

Now observe the above simple rules and you'll find that you will be rewarded by receiving more verifications. Remember the station is under no obligation to send us a verification. It is a favor to us when they do so. Courtesy should always be our watchword.



REGINA, CANADA, VICE-PRES., W. ANSELL

BRAZIL BROADCASTING STATIONS

(Decio Correa Barbosa, Rio de Janeiro, Brazil)

CALL	KC/S	POWER	NAME	LOCATION
PRC3	580	250	Sociedade Radio Pelotense,	Pelotas-R.G. do Sul.
PRF8	585	500	Radio Commercial da Bahia,	Sao Salvador-Bahia.
PRH2	600	25000	Radio Ipanema, Av. Rio Branco	107, Rio de Janeiro.
PRB3	620	250	Radio Sociedade Juiz de Fora,	Juiz de Fora-Minas Geraes
PRD6	630		Radio Club de Piracicaba,	Piracicaba-Sao Paulo.
PRF6	630	50	Radio Club da Bahia,	Sao Salvador-Bahia.
PRE6	670	1500	Radio Sociedade Fluminense,	Nietheroy-E. do Rio.
PRA7	670	50	Radio Club de Ribeirao Preto,	Ribeirao Preto-Sao Paulo.
PRC7	690	250	Sociedade Radio Mineira,	Bello Horizonte-M. Geraes.
PRD9	690	250	Radio Sociedade de Sorocaba,	Sorocaba-Sao Paulo.
PRB8	690		Radio Rio Preto Soc. Anon.,	Rio Preto-Sao Paulo.
PRG5	720	750	Sociedade Radio Atlantica,	Santos-Sao Paulo.
PRF2	725	250	Radio Club de Rio Claro,	Rio Claro-Sao Paulo.
PRA8	730	3000	Radop Club de Pernambuco,	Recife-Pernambuco.
PRG2	740	10000	Radio Tupi Soc. Anon.,	Sao Paulo.
PRA2	780	1500	Radio Escola Municipal, Rua da	Carioca, Rio de Janeiro.
PRA6	800	10000	Sociedade Radio Educadora Paulista,	Sao Paulo. (de Jan.
PRA3	860	2500	Radio Club do Brasil, Rua Bithencourt	da Silva 21, Rio-
PRB7	900	500	Radio Educadora do Brasil,	Rio de Janeiro. (iro
PRF4	940	10000	Radio Jornal do Brasil, Av. Rio	Branco 110, Rio de Jane-
PRF3	960	5000	Radio Diffusora Sao Paulo,	Sao Paulo.
PRE8	980	80000	Sociedade Radio Nacional, Praca	Maua 7, Rio de Janeiro.
PRB9	1000	5000	Radio Sociedade Record,	Sao Paulo.
PRH8	1080	5000	Radio Ipanema, Av. Rio Branco	107, Rio de Janeiro.
PRD4	1090		Radio Cultura de Araraquara,	Araraquara-Sao Paulo.
PRA1	1090	50	Radio Sociedade da Bahia,	Sao Salvador-Bahia.
PRG9	1100	500	Radio Excelsior, Sao Paulo,	Sao Paulo.
PRA9	1120	1000	Sociedade Radio Mayrink Veiga,	Rio de Janeiro.
PRC6	1160	1000	Radio Philips do Brasil,	Rio de Janeiro.
PRC2	1170	3000	Radio Sociedade Gaucha,	Porto Alegre-R.G. do Sul.
PRC9	1170	250	Sociedade Radio Educadora,	Campinas-Sao Paulo.
PRE5	1170	250	Sociedade Triangulo Mineiro,	Uberaba-Minas Geraes.
PRB6	1200	1000	Sociedade Radio Cruzeiro do Sul,	Sao Paulo. (Janeiro.
PRE3	1220	10000	Radio Transmissora Brasileira,	Rua do Mercado, Rio de-
PRD2	1240	1000	Sociedade Radio Cruzeiro do	Sul, Rio de Janeiro.
PRG8	1250	250	Bauru Radio Club,	Bauru-Sao Paulo.
PRA5	1260	500	Radio Sao Paulo,	Sao Paulo.
PRG3	1280	10000	Radio Tupy, Rua Santo Christo	152, Rio de Janeiro.
PRE9	1320	500	Ceara Radio Club,	Fortaleza-Ceara.
PRD7	1320	250	Radio Club de Sorocaba,	Sorocaba-Sao Paulo.
PRD8	1320	1000	Radio Club Fluminense,	Nietheroy-E. do Rio.
PRH4	1330		Sociedade Radio Cultura de	Pelotas-Pelotas, R.G. do Sul.
PRG7	1340	250	Radio Club Jauense,	Jahu-Sao Paulo.
PRE1	1340	250	Sociedade Radio Cultura "A Voz	do Espaco," Sao Paulo.
PRC8	1360	1000	Radio Sociedade Guanabara,	Rio de Janeiro.
PRF9	1367	500	Empreza Radio Porto Alegrense,	Porto Alegre-R.G. do Sul.
PRC4	1370	50	Radio Club Blumenau,	Blumenau-Sta. Catharina.
PRE7	1410	5000	Sociedade Radio Cosmos,	Sao Paulo.
PRE2	1430	500	Sociedade Radio Caiuti,	Rio de Janeiro.
PRB4	1450	1000	Radio Club de Santos,	Santos-Sao Paulo.
PRF7	1450		Radio Cultura de Campos,	Campos, Estado do Rio.
PRD5	1470		Instituto de Educacao,	Rio de Janeiro.
PRG4	1470	250	Radio Club de Jaboticabal	Jaboticabal-Sao Paulo.
PRD3	1480	250	Petropolis Radiofusora Soc. Anon.,	Petropolis-E. do Rio.
PRB5	1480	50	Radio Club Hertz,	Franca-Sao Paulo.
PRB2	1489	250	Radio Club Paranaense,	Curytiba-Parana.
PRG6	1500	250	Sociedade Radio Mantiqueira,	Cruzeiro-Sao Paulo.

NOTE: This latest list from Brazil, corrected to July 14, did not list the power ratings so some of these power listings may be subject to correction. We hope to give correct power listings shortly -Ed.

NEW STATIONS that will take the air shortly are: PRH5, Pocos de Caldas-M. Geraes; PRH6, Bello Horizonte-M. Geraes; PRH7, Ribeirao Preto-Sao Paulo -PRH9, Sao Paulo, and PR12, Sao Paulo.

Short-Wave News

Editor: C. Morrison; Amateur Editor
Ralph Gozen; Frequency Checking Bur-
eau, R. B. Oxrieder (RBO)

The DSW has been conferred upon
Ricardo F. Rubio; eligible for DSW-
Messrs. L. Cavileer, W. F. Herzog and
Eugene Reinhart.

To receive OCTOBER AMA-TOURING,
send at least one item for it, and
stamp to Ralph Gozen, 1 Richfield
Ave., Yonkers, N.Y., before Oct. 1.

Starting with the October G. C., a
\$1.00 CASH PRIZE will be awarded
each month to the member sending in the best short-wave news item for
publication. (See page five for complete details- Editor)

Deadline for Oct. G.C. Sept. 17; for Stop Press Sheet, Sept. 29.

IT IS IMPERATIVE that all SW reports: use one side of page only;
lines be double-spaced; items be grouped by continents and time used
be stated. Items in order of importance are: NEW stations; exact fre-
quencies, or freq. changes; exact schedules and addresses; identify-
ing signals; commercial sked tips & unusual receptions. RUSH important
items by fastest mail. FOUR STAR (***) items denote exceptional merit.

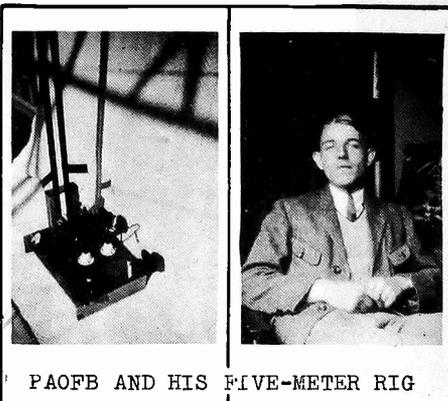
EST. NORTH AND CENTRAL AMERICA EST.

ALASKA WXA, Juneau, Alaska, 400w xmt., of the Alaska to U.S. com-
mercial phone circuit, controlled by U. S. Army Signal Corps (op. R.H.
Stevenson), works WVD (8.65), Seattle, with a rhombic beam aerial, on
the following frequencies: 9.92, 11.55 and 5.3275mc. Usual frequency
of 9.92mc is best heard near 2am (Ambrosius, E. Roberts*)

CANADA Correct sked of CFCX-6.005, Montreal, is weekdays 6:45am-
12 midnight and Sundays 8am to 10:15pm (Graham); CJRX, Winnipeg, has
been testing on new frequencies of 11.79, 11.8 and 11.81mc irregularly
in evenings, usually between 11pm and midnight (Balbi, Pilgrim)

CUBA GOBC (has dropped CO9BC), "Radio General Electric," in
Havana, still shifting around in frequency, is operating on 9.31mc at
present. Identification signals: rooster crowing, roar of an airplane
and bugle call (Ansell, Pilgrim, Criswell, RBO, LA, Eders, NRC); GOBZ (has
dropped CO9BZ), "Radio Salas," 14 S. Safael St., P.O. Box 866, Havana,
announces frequency as 9.03mc, but is actually on 9.00mc at present;
relays CMBZ (1000kc), daily from 6 or 7pm to a little after midnight,
signing off with a clock, similar in sound to Big Ben, striking the
hour. Puts on English program Saturdays 1 to 2am. Has four-tone chimes
and bugle call preceding announcements (*Ansell, Eders, Pilgrim, Legge,
Byrd, Ambrosius, RBO, Maguire, Balbi, Criswell); COCQ-9.746, Havana, will
send photo of xmt. to those reporting reception. Gives news in English
daily at 12:45am (*Ambrosius); COCW (6.324), "La Voz de las Santillas,"
P.O. Box 130, Havana, relays CMW (600kc), daily from 7am to midnight.
Four chimes precede announcements in Spanish and English. Veri's will
be sent to those reporting broadcasts (*CMW, RBO, Legge, Stark, Ambrosius)
.. COGF (now on 11.805), Gral Betancourt 51 (Playa), Matanzas, relays
CMGF (1120kc), daily 1-3 and 6-10pm. Power is 1kw. Issues attractive
QSL card (*RBO, Ambrosius); COJK-8.665, "Radio Zenith," Finlay 3, Altos,
Camaguey, 1kw, relays CMJK, daily from 10:30am-12:30pm and 7-10:30pm.
Veri' is very unique (*Ambrosius, Magnuson)... NEW STATIONS: COCM,
(P.O. Box 33), Calle 23, No. 482 Vedado, Havana, first heard on August 13,
relays CMCM (850kc), "Transradio Columbia," nightly from 7pm to midnight
EST. Reported on frequencies from 9.775 to 9.89mc, but usually heard
near 9.83mc. Makes occasional English announcements (**Ambrosius, Bal-
bi, Fiederowicz, Byrd, E. Roberts, Eders, CAM, Stark, Graham); COBT (approx.
18.75mc), relaying CMBT, heard from 8am to 2pm. Mentions General Elect-
ric often (*E. Roberts)

EL SALVADOR NEW: YSN, in San Salvador, using an announced frequency of
11.71mc, first heard testing a new General Electric S.W. transmitter



PAOFB AND HIS FIVE-METER RIG

on Sunday, Aug. 15, from 9-10pm, probably preparatory to assuming a regular program schedule (**Tate, E.Roberts)

GUATEMALA TG2 (6.31), heard irregularly on Sundays until after 3am. Address reports to the Direccion General de Comunicaciones Electricas -Guatemala City, Guatemala (*Pilgrim-Calif)

MEXICO XEWU (or XEUW), on 15.16mc, irregularly days and occasion ally nights to midnight or lam, relaying XEW. Issues attractive QSL card, which gives QRA as Apartado 2516, Ayuntamiento 54, Mexico D. F. (*Ansell, Ambrosius, Pilgrim, RBO); XEFT, Veracruz, now operating on 9.55 (*RBO); XEER-11.826, on air daily to 4pm (Maguire); XEXA-6.172, Mexico D. F., broadcasts English program nightly from 11-11:30pm (*Ambrosius); XEUZ-6.12, Mexico D. F., broadcasts English dx program nightly from 1-2am and will send souvenirs to those reporting reception (*Ambrosius)

PANAMA HP5A (11.7), "Radio Teatro Estrella de Panama," Star and Herald Theater, P.O. Box 954, Panama City, owned by Radio Teatro S. A., broadcasting daily from 10am to 10pm; musical theme, "Anvil Chorus." Woman gives English announcements and man Spanish ones. Power 500 watts and slogan is "Entertaining Advertising is our Goal." Director is A. Villegas Arango; Program Director, A. Graziani (**HP5A, Eders, Ambrosius Stark, Graham, White, Pilgrim, Gunn, Bostad, RBO, Criswell, Sholin, CAM)

U.S.A. Examiner Hill, recommends grant of CP for new 20KW G. E. stations for Belmont, Calif., to operate on 9.53 and 15.33mc respect., daily from 3-9am (*FCC); WVW, Beltsville, Md. (10), checks frequency on Tues. and Fri. from noon to 1:30pm. Fading and transmission conditions bulletins on Weds. at 1:30pm; on 20mc, irreg. from 2 to 2:30pm (Criswell, Ambrosius); note revised skeds for W2XE in list. W2XE is carrying out aerial and signal intensity tests in collaboration with the BBC; W2XGB (17.31), Hicksville, New York, broadcasts daily except Sat. and Sun from 10am to noon (*E.Roberts); W3XAL's new S. W. service in six languages is being broadcast daily as follows: on 17.78mc, with Europe beam from 8am-2pm; with non-directional aerial 2-6pm; with S.A. beam, from 6-8pm, and on 6.1mc, with S.A. beam from 8:15-12 midnight (*NBC), W3XAU, Philadelphia, granted permit to operate on 21.52mc. Also seeks permit to operate on 15.15 and 25.75mc (FCC); W8XAL's sked is daily from 6am-7pm and 10pm-2am (*Barter). . . EXPEDITIONS: WLOXAB, 400w, xmtr of the MacGregor Arctic Expedition, aboard the S.S. General A.W. Greeley, is licensed for communications purposes and to relay program material to the NBC on any one of the following freqs: 2.398, 3.4925, 4.7975, 6.425, 8.655, 12.8625, 17.31, 31.1, 34.6, 37.6, 40.6 and 86 to 400mc. Call of S.S. Greeley is WAWG, and it will communicate with stations WQE (18.92), WQV (14.8), WEL (8.95), WKP (6.95) and WDN (4.555). The schooner was blown clear off its course and over to the coast of Greenland by terrific gales encountered off Baffinland on July 30 (**FCC, Ambrosius) . . . Amateur VO1I (14.4), St. Johns, Nfld., contacts WLOXDA, aboard the schooner, 'Morrisey,' enroute home from Greenland, nightly from about 6:30 to 8pm. WLOXDA operates on 12.862, 14.248 or 17.31mc (*Ambrosius)

S O U T H A M E R I C A

ARGENTINA Program of Argentina propaganda, heard on Mon. and Friday, 5-6:30pm, formerly over LSX, is now broadcast by LSY-18.115, and LRX 9.66mc (*NRC); Buenos Aires broadcast stations LR3, LS11 and LR2, are each to be relayed by short-wave stations soon (*Sintonia)

CHILE "Radio Service" (12.3), call CB615 is not used, is now broadcasting from near 6 to 9:50, and occasionally to 10:50pm (*Pilgrim) . . . New Santiago station, believed to be "Radio Vitalicio," is being heard on 12.007, until 10pm or later. Signs off in English (*RBO)

COLOMBIA HJ3ABD, Bogota, is now operating on 4.85mc (*RBO)

ECUADOR HCODA, Guayaquil, is now operating on 9.44mc (*RBO)

PARAGUAY Amateur ZP2AC (14.04), heard Sunday at 8pm (*Legge)

PERU OAX4J is signing off at midnight with an English announcement, and organ selection, "Good Night Sweetheart." (*Ambrosius); According to Carlos R. Belevan, Sec. of "Radio Universal," two new RCA transmitters have been purchased by the owners of OAX5A-OAX5B, Ica, one of which is being used on 9.64mc with call OAX5C, working in parallel with OAX5B (11.8) (**Sintonia, RBO, Pilgrim)

URUGUAY LR3 (950kc), "Radio Belgrano," of Buenos Aires, Argentina, will soon be relayed by Montevideo short-wave stations, CXAB (9.505) and CX14 (15.17) (**Sintonia)

VENEZUELA YV2RA, San Cristobal, has moved to 5.775mc (*RBO)

EUROPE

AUSTRIA OER2 (11.778) and OER3 (6.072), Vienna, are operating simultaneously, weekdays from 10am-5pm, and on Saturdays to 5:30pm (XDX)
BULGARIA Summer sked of LZA (14.92), Sofia, is: daily 5-6:30am; Mon/Tues/Fri noon-2:45pm; Wed. Noon-5pm; Thurs.-noon-4:30pm; Sat. 10:30 am-5pm, and 11:45pm to 5pm Sunday. New 100kW xmtr. is rumored (E.R.**)
CZECHOSLOVAKIA OLR5A-15.23, Prague, on Mon/Thur 8-10:10pm irr. (Balbi)

DENMARK A 6kW transmitter, announcing as "The Danish Short-Wave Station," believed to be OXY, Skamlebaek, on a new frequency, first heard on July 20, has been testing almost daily from 6:30 to 7, occasionally as late as 8:30pm, on an announced frequency of 11.805mc. Various aeriels are being tested, including North American beam, an omni-directional aerial, and one directed away from N. A. Announcements are in English. Since COGF's move to 11.805mc it is impossible to hear OXY. This transmitter is also believed to operate from 3 to 5pm, and Sundays on 9.52mc, from 8 to 10:30am (**Stark, Magnuson, Tate, Sampson, RBO, Graham, Reinhard, NRC, CAM)

GERMANY DJL (15.11), Zeesen, is being used irreg. from 4:50 to 10:45pm with a N.A. beam (*Byrd, CAM); From 10 to 11pm, on Aug. 15, 17, 19, 22, 24 and 26, special tests, consisting of two xmtrs. radiating simultaneously on 15.2mc, with aeriels beamed in various different directions, were conducted by the Zeesen stations (*Dr. Diettrick, A.B.)

HOLLAND New sked for PHI-17.77, is: Mon/Tues/Thurs/Fri 8:25-10am; Sat. to 10:30am; Sun. 7:25-10:30am (*X. DX, PHI) (struction

IRELAND It is rumored that a short-wave station is under con-

ITALY A new directional aerial to N. A., soon to be placed in use by 2R0, Rome, will increase the effective power of the station about four times, according to "Radiocorriere."

POLAND Present sked for SPW-13.635, Polskie Radio Warsaw, 5 Mazowiecka St., Warsaw, is: Mon/Wed/Fri 12:30-1:30pm; Sunday 11:30am to 1:30 pm. Power is 10kW (*Magnuson)

PORTUGAL Can anyone furnish the present sked of CSW? -Ed.

SPAIN EAR-9.488, "La Voz de Libertad," also announces as "La Voz de Madrid", and "La Voz de Espana." (*RBO)

SWEDEN Sked of SBG (11.705), Motala, is: daily 1:20-2:05, 6-9, and 11am-1:30pm; also reported at 1:09am (Maguire)... A Swedish transmitter, believed to have been either SM5SX or SBG, was heard on Sunday, Aug. 15, from noon to 4pm, operating on a freq. of approx. 15.15mc (*Magnuson)

SWITZERLAND Frequencies of Geneva xmtrs. are: HBH-18.48, HBF-18.45, HBJ-14.535, HBO-11.402, HBL-9.595 and 9.345, HBP-7.797, and HBC-6.675mc ..Sked is Sat., 5:39-6pm over HBL and HBP; 6:45-8pm over HBJ (X. DX, Loy HCO or HBH. Salzburg relays have been over HBH and HBJ (X. DX, Loyd)

U.S.S.R. RNE-12.07, Moscow, broadcasting French program, daily 10pm to as late as midnight (*RBO, Maguire); RKI-15.08, Moscow, heard Sundays 1:30-3pm, with German program (Magnuson, X. DX)

A F R I C A

ALGERIA TPZ-12.12, Alger, contacts TYA-12.215, Pontoise, France, regularly at 4pm, both stations using side-band modulation (*NRC)

BEL. CONGO Amateur OQ5AA (14.145), Tondo, owned by Dr. G.W. Westcott, power 75 watts, being heard in California near 8pm PST (*Moore)

F. SOMALI- FZE8-17.28, Djibouti, broadcasts special musical programs the first Thursday of each month from 6:45-7:15am, to check modulation as well as for entertainment purposes. Such tests will take place on Sept. 2, Oct. 7, Nov. 4, Dec. 2, etc. (**E. Roberts)

KENYA VQG-19.62, Nairobi, is being heard contacting GAD-19.48, Rugby, at 7:30am (**Legge)

MADAGASCAR FIU, "Radio Tananarive," Tananarive, after testing out several wave lengths, has finally settled upon 9.53mc, where it may be heard daily from 9:45-10:45am (*W.A.W.N.). A station thought to be FIU is being heard irregularly near 10am on a freq. of 9.57mc (Myers)

S. MOROCCO Amateur EA9AH (14.008), may be heard giving Spanish insurgent news from approx. 7:30 to 8:15 and near 9pm (Sholin, Ambrosius)

A S I A

BURMA Govt. Radio Station at Rangoon (6.007), broadcasts daily from 9-9:30am and 9:20-9:40pm... VVS (approx. 12.88), The Army Cantonment at Mingaladon, near Rangoon, phones Madras, in scrambled speech, daily ex. Sunday, from 6 to 7am. According to W.J. Byrne of Mingaladon, this is the Mingaladon-Madras Beam Telephone/Telegraphy system, used

for commercial phone service between Burma and India (**Walcott-Calif)
CHINA XGOX, Nanking, has slipped up to 6.895mc. News in English about the Chinese side of the Sino-Japanese Conflict is given by a woman announcer from 8:05 to 8:20am (**Walcott, Sholin)... XTW-5.91, Canton, heard calling Shanghai, once near 9am (Walcott); XTR-9.36, Swatow, may be heard calling XTV-9.495, Canton, regularly at 5am (*NRC)

F.INDO-
CHINA "Philco Radio" in verifying reception of their 50m relay -states broadcasts are made simultaneously on 11.71, and either 6.01, or 5.985mc (this relay seems to be working on 5.89mc at present, although it was also on 7.32mc for a few days). The schedule is as follows: daily 11pm-1am; Sat. also from 4:30-9:30am; Sun/Wed 5:30-9:30am and other days 6-9:30am (**Walcott)

F.M.S. ZGE, Kuala Lumpur, usually heard near 6.2mc, occasionally varies as much as 50kc to either side... ZGB-13.643, Posts & Telegraphs Dept., Selangor & Pahang, Kuala Lumpur, phones PIQ, Bandoeng, irreg. from 7:30-8:30am, but DOES NOT verify (**Walcott) (Sholin)

HONG KONG English news from ZBW-9.525, Hong Kong, daily at 6:30am. -
INDIA VWY2-17.48, heard calling GAU-18.62, at 7:35 & 8:20am (RL)
JAPAN JZRB-8.9, 'The MS Yasukuni Maru,' works JZG-6.33, at 7am.

Both stations use inverted speech (*Myers)... From Aug. 1-14, Nazaki stations conducted special tests for Eastern U.S. states as follows: over JZK, 6:30-7:30am, and over JZJ-11.8, 5:30-6:30pm (*Messer, X. DX)

KWANTUNG NEW: JDY (announced freq. of 9.925mc), Manchuria Telephone and Telegraph Company, 7, Oyamagori, Dairen, Kwantung Peninsula, Manchukuo, relays JOAK, daily from 7:10 to 8am. Program consists of oriental and occidental music, and latest news from North China Conflict area, in Korean, Japanese and English. The English news is read by a Korean with an English accent from 7:45-8am. At 7:45am he gives the station identification in English, thus, "Hello, dear friends, this is Derien calling"; JDY phones Tokio in scrambled speech throughout the morning (**Sholin, Walcott, Ansell)

MACAU A veri' from CQN, dated July 16, states the station is operating on 10.133mc, Mondays and Fridays from 7 to 8:30am, but that the wave-length is soon to be changed to somewhere between 40 and 50m. J. Estrela, is Chief of the station (*Thoreson)

SIAM HSBPJ, Bangkok, now on a new frequency of 9.51mc, is broadcasting Thursdays only from 8-10am. A Bangkok phone on 19.02mc, phones DFB-17.52, in plain speech, irreg. near 9:30 and 10am (**Walcott, Balbi)

STRAITS ZHJ-6.057, Penang, broadcasts daily, with a power of 49
SETTLEMENT watts, from 6:40 to 8:40am (*Walcott)

TAIWAN NEW: A new Japanese xmtr. located at Taihoku, relays JFAK of that city, weekdays from 4 to 10:30, or 10:40am, and Sundays from 4 to 10:15am, on 9.625mc. Last 20 minutes given over to English news concerning North China Conflict. Half-a-dozen or so light chimes are sometimes used as an interval signal. Near 9:05am, JIB-10.535, Takhoku, joins the newcomer in the relay (**Sholin, Walcott, Balbi); another Taihoku xmtr, operating on 6.64mc, and relaying JOAK, or JFAK, is heard daily from near 5 to about 10:15am (**Pilgrim)

U.S.S.R. UPOL, or RAEM (14.1), North Pole Station of the Soviet Airbase Expedition, heard at 6am, signing off with W6EYY (**Gozen); RTM (18.38 and 11.82), Khabarovsk, was licensed as contact point for KQZ-17.98, KWE-15.43, KLL-13.72 and KEZ-10.4, during arctic flights (FCC)

A U S T R A L I A S I A

AUSTRALIA New National short-wave stations have been authorized for Geelong, Victoria, and Perth, W. Australia (*W.A.W.N.); early sked for VK3LR-9.58, is now daily 12:45-2am; VK6ME-9.59, Perth, seems to have had a power increase since it is much better heard at present (*X. DX, Pilgrim)... VJI, Aerial Medical Service, Box 103, Clonourry, is HQ station for 46 outpost medical xmters. Daily sked of communications is as follows: VJI-2.05, and outpost xmters. on 2.02, 2-3am and 4-5:30pm; all stations on 8.63mc, from 5:30pm-2am. VJI's power is 400 watts (*Myers)

D.E.I. YDA, Tandjongpriok, normally on 3.06mc, tested for several days on 9.66mc, but these tests have now been discontinued; Low powered stations occasionally heard from 7 to 8:30am, or later, when conditions are good include: YDD2-2.91, YDEH-3.158, Soerabaya, YDL3-3.45, Djocja, YDL2-4.81, Solo, YDE2-2.5 (*Walcott)

NEW GUINEA VJZ-13.88, Rabaul, has been resurrected from its burial ground of thick volcanic dust and is again contacting Sydney irreg.

SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N- NEW station; F- frequency change; S- change in sked; C- change in call; U- frequency in doubt; F- frequency calibrations by Oxrieder-IDA Frequency Bureau; J-stations persisting in hopping about; V- varying in frequency; * see short-wave notes; new stations in caps.

DIAL METERS	MEGS	CALL	STATION	TIME	E.S.T.
13.92	21.54	W8XK	Pittsburgh, Penna.	Weekdays 4:45-7am.	
13.93	21.53	G5J	Daventry, England	5:45-8:55, 9:15am-noon	13M
S13.94	21.52	W2XE	Wayne, New Jersey	7:30-10:30am; Sun 8-10am.	
N13.94	21.52	W3XAU	Philadelphia, Penna.	Should be on air shortly.	
13.97	21.47	G5H	Daventry, England	5:45-8:55, 9:15am-noon	
15.77	19.82	HSSEI	Bangkok, Siam	Mondays 8-10am.	
16.56	18.115	LSY	Buenos Aires, Argen.	Mon/Fri 5-6:30pm.	
S16.86	17.79	G5G	Daventry, England	1-3:15, 5:45-8:55, 9:15-Nn.	
S16.87	17.78	W3XAL	Boundbrook, N.J.	8am to 8pm. (7:25-10:30am.	
S16.88	17.77	PHI	Huizen, Holland	M/T/Th/F 8:25-10am; Sun	16M
16.89	17.76	DJE	Zeesen, Germany	12:05-5:15, 5:15-11am.	
17.36	17.28	FZEB	Djibouti, F.Somaliland,	1st Th. each month, from	
				6:45-7:15am. See notes.. *	
18.72	16.03	KKP	Kahuku, Hawaii	Tu/W 1:15am; Sa/Su 9pm.	
19.45	15.42	XEBM	Mazatlan, Mexico	9-10am, 1-3 and 8-9pm & ir	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10am.	
19.56	15.34	DJR	Zeesen, Germany	8-9am, 4:50-10:45pm to CA	
19.57	15.33	W2XAD	Schenectady, N.Y.	10am-8pm.	
19.60	15.31	G5P	Daventry, England	6:20-8:30pm to No. America	
19.62	15.29	LRU	Buenos Aires, Arg.	7-9am. (am, 4:50-10:45pm.	
19.63	15.28	DJQ	Zeesen, Germany	12:05-5:15, 6-8am, 8:15-11-	
S19.64	15.27	W2XE	Wayne, New Jersey	3-6pm; Sundays 1-6pm.	
19.64	15.27	HI3X	Trujillo City, D.R.		
19.66	15.26	G5I	Daventry, England	12:20-4, and 9-11pm.	19M
19.67	15.25	W1XAL	Boston, Mass.	Daytime irregular.	
19.68	15.243	TPA2	Pontoise, France	5-10:05am. (pm irregular.	
S19.70	15.23	OLR5A	Prague, Czechoslov.	2-2:15pm; Mon/Thur 8-1010	
19.71	15.22	PGJ	Huizen, Holland	Tues 4:30-6am; Wed 8-11am.	
19.72	15.21	W8XK	Pittsburgh, Penna.	7am-5pm. (-10:45pm to N.A.	
19.74	15.20	DJB	Zeesen, Germany	12:05-5:15, 5:55-11am; 4:50	
S19.76	15.18	G5O	Daventry, England	1-3:15am, 4-6, 6:20-8:30pm	
N19.78	15.17	CXA14	MONTEVIDEO, URUGUAY	Will relay LR3 daily.	*
S19.79	15.16	XEWW	Mexico D.F.	9am-6pm & evenings irreg.	
19.79	15.16	JZK	Nazaki, Japan	12:30-1:30, 8-9am, 3-4, 4:30	
				to 5:30pm & irregular. *	
19.80	15.15	YDC	Bandoeng, Java	5:30-11am; 6-7:30pm.	
S19.82	15.14	G5F	Daventry, England	10:30am-Nn, 4-6, 6:20-8:30p	
19.84	15.12	HVJ	Vatican City, Italy	10:30-10:45am ex. Sundays.	
S19.85	15.11	DJL	Zeesen, Germany	12-2, 8-9, 11:35am-4:30pm &	
				4:50-10:45pm irreg. *	
S19.88	15.08	RKI	Moscow, U.S.S.R.	7-9:15pm; Sundays 1:30-3p	
VS20.11	14.92	LZA	Sofia, Bulgaria	5-6:30am; Mon/Tu/F Nn-2:45	
				pm; Wed/Th/Sa/Su to 5pm. *	
20.64	14.535	HBJ	Geneva, Switzerland	Sats. 6:45 to 8, or 8:30pm	
20.75	14.46	DZH	Zeesen, Germany	5-9pm intermittently.	
S22.00	13.635	SPW	Warsaw, Poland	Mon/Wed/Fri 12:30-1:30pm;	
				Sundays 11:30am-1:30pm. *	
N23.33	12.862	W10XAB	MacGregor Expedition	will test with NBC here	
24.03	12.486	HIN	Trujillo City, D.R.	5:10 to 10:10pm, or later.	
S24.39	12.30	CB615	Santiago, Chile	11am-1pm, 6-9:50, or 10:50p	
24.52	12.235	TFJ	Reykjavik, Iceland	Sundays 1:40-2:30pm.	
24.81	12.092	RNE	Moscow, U.S.S.R.	4-6pm irreg.	
S24.86	12.07	RNE	Moscow, U.S.S.R.	Sun 6-7, 10-11am, 4-5pm; Wed	
				6-7am, M/W/F 4-5, 10pm-mid*	
S25.06	11.97	HI2X	Trujillo City, D.R.	Tu/F 7:40-10:10pm; Sun AM.	
25.21	11.90	XEWI	Mexico D.F.	M/W/F 3-4pm, Tu/Th 7:30 to	
				8:45pm, T/Th/F 10pm-mid. &	
25.21	11.90	HP5I	Aguadulce, Panama	7:30-9:30pm.	
25.24	11.885	TPA3	Pontoise, France	1-3, 3-4, 10:15am-5pm.	
25.27	11.87	W8XK	Pittsburgh, Penna.	5-8pm.	
25.32	11.85	DJP	Zeesen, Germany	11am-4:20pm.	25M

25.34	11.84	OLRIA	Prague, Czechoslov.	2:30-4:30pm; Mon/Th 7-9pm.
S25.36	11.83	W2XE	Wayne, New Jersey	6:30pm-mid; Sun. 7pm-mid.
S25.36	11.83	W9XAA	Chicago, Illinois	Sun. 8am-7pm.
S25.37	11.826	XEBR	Hermosillo, Mexico	daily to 4pm. *
25.38	11.82	RTM	Khabarovsk, U.S.S.R	8-10:15am irreg.
25.40	11.81	2R04	Rome, Italy	6:43am-7:30pm on M/W/F, and to 7:45pm on Tu/Th/S., to 5:30pm on Sundays. 1-3 and 6-10pm. *
F25.41	11.805	COGF	Matanzas, Cuba.	6:30-7, irreg. to 8:30pm. *
N25.41	11.805		Skamlebaek, Denmark	2-4, and 7-11:30pm. *
25.42	11.80	OAX5A	Ica, Peru	3-4, 4:30-5:30pm and 8-9am
25.42	11.80	JZJ	Nazaki, Japan	Testing here irreg. *
F25.42	11.80	CJRX	Winnipeg, Canada.	M to F 10am-5pm; Sa to 5:30
25.47	11.778	OER2	Vienna, Austria	11:35-4:30, 4:50-10:45pm.
25.49	11.77	DJD	Zeesen, Germany	1-3:15, 12:20-4, 6:20-8:30
S25.53	11.75	GSD	Daventry, England	pm, 9-11pm.
J25.60	11.72	CJRX	Winnipeg, Canada	6pm-mid, Sundays 3-9:30pm *
25.60	11.718	CR7BH	Laurencio Marques, Moz.	11:45pm-12:30, 4:30-6:30-9:30-11am, 12:30-4pm.
25.61	11.714	TPA4	Pontoise, France	5:15-7 and 9pm-midnight.
S25.63	11.705	SBG	Motala, Sweden	1:20-2:05, 6-9, 11am-1:30pm
N25.63	11.705	YSN	SAN SALVADOR, EL SALVADOR,	testing 9-10pm ir. *
S25.64	11.70	HP5A	Panama City, Panama	10am-10pm. *
V25.64	11.70		Saigon, F. Indo-China	4:30, or 5:30 to 9:30am. *
25.68	11.68	KIO	Kahuku, Hawaii	Tues/Wed 1:15-1:30am & ir
V26.11	11.49	COCX	Havana, Cuba	8am-1am; Sun 8am-Nn, 6-9pm
26.32	11.402	HBO	Geneva, Switzerland	Sats. 6:45 to 8, or 8:30pm
27.17	11.04	CSW	Lisbon, Portugal	Noon to 7pm to Africa. *
27.27	11.00	PLP	Bandoeng, Java	5-11am, 6-7:30pm.
28.14	10.66	JVN	Nazaki, Japan	3:50-7:40am & irreg.
N28.48	10.535	JIB	Taihoku, Taiwan	9:05 to 10:30am irreg. *
28.93	10.37	EJ43	Tenerife, Canarias	2-4, 5:45-7, 7:20-7:55, 8-9p
29.00	10.345	OAX4M	Huacho, Peru	Irregular sked.
29.04	10.33	ORK	Ruyssselede, Belgium	12:30-2pm
29.15	10.29	DZC	Zeesen, Germany	Relays Zeesen irreg.
29.24	10.26	PMN	Bandoeng, Java	5:30-11am, 6-7:30pm.
29.61	10.133	CQN	Macau, Macau	Mon/Fri 7-8:30am. *
30.18	9.94	CSW	Lisbon, Portugal	7-8pm to N.A. *
N30.23	9.925	JDY	DARIEN, KWANTUNG	7:10-8am. *
30.32	9.895	CPL	Sucre, Bolivia	8-10pm irreg.
V30.43	9.86	EAQ	Madrid, Spain	4-6:30pm, or later irreg.
NV30.52	9.83	COCM	HAVANA, CUBA	7pm to midnight. *
30.78	9.746	COCQ	Havana, Cuba	6:50am to lam. *
V31.05	9.663	TL4NRH	Heredia, C.R.	9-10 and 11:30pm-12 irreg
V31.05	9.662	YNLF	Managua, Nicaragua	2-3 and 8-11pm.
31.06	9.66	CR6AA	Lobito, Angola	Wed/Sat 3:45-5:30pm
31.06	9.66	LRX	Buenos Aires, Argen	9:30am-11:30pm.
J31.09	9.65	CT1AA	Lisbon, Portugal	Tu/Th/Sat 3-6pm. 31M
B31.11	9.645	HH3W	Port-au-Prince, Haiti	1-2, 7-8:45pm.
N31.12	9.64	OAX5C	ICA, PERU	7-11:30pm irreg. *
31.14	9.635	2R03	Rome, Italy.	Not operating at present.
N31.18	9.625		TAIHOKU, TAIWAN	4-10:30am; Sun 4-10:15am *
31.20	9.618	HJ1ABP	Cartagena, Colombia	7-9, 11am-1:30pm, 5-10:30pm
B31.23	9.607	HP5J	Panama City, Panama	Noon-1:30pm, 6:30-10:30pm.
S31.24	9.604	XEYU	Mexico D.F.	7-10pm.
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7; 7-9:15pm for N.A.
31.25	9.60	CB960	Santiago, Chile	10:30am-noon, 6-8:30pm.
S31.27	9.595	HLB	Geneva, Switzerland	Sats. 5:39-6pm. (Wd 7-10pm
31.28	9.59	PGJ	Huizen, Holland	Sun 2-3, 7-8pm; Tu 1:30-3pm
31.28	9.59	VK6ME	Perth, W. Australia	Weekdays 6-8am (a-12:30pm
31.28	9.59	VK2ME	Sydney, Australia	Sun mid-2, 4:30-8:30, 10:30
31.28	9.59	W3XAU	Philadelphia, Penna	11am-7pm; Wed/Sun 11am-6pm
31.32	9.58	GSC	Daventry, England	(9:45am.
S31.32	9.58	VK3LR	Melbourne, Austr.	12:45-2, 3:30-8:30, 8:45-
31.35	9.57	WLXK	Springfield, Mass.	6am-mid; Sun 7am-midnight
31.35	9.57		Manila, Philippines	4:30-9am; Sat to 10am.
S31.38	9.56	DJA	Zeesen, Germany	12:05-11am, 4:50-10:45pm.

31.38	9.56	OAX4T	Lima, Peru	11:30am-1:30pm.
31.41	9.55	YDB	Soerabaja, Java	5:30-11am
F31.41	9.55	XEFT	Veracruz, Mexico.	7:30pm-midnight. *
31.45	9.54	VPD2	Suva, Fiji's	5:30-7am except Sundays.
31.45	9.54	DJN	Zeesen, Germany	12:05-5:15, 5:55-11am, 4:50 -10:45pm. (pm.)*
U31.48	9.53		Tananarive, Madagascar	9:45-10:45am, 1:30-2:30
31.48	9.53	W2XAF	Schenectady, N.Y.	4pm-midnight.
31.48	9.52	LKJ1	Jeloy, Norway	5-8am. (9:15pm-Sun 1:30 et
31.50	9.525	ZBW3	Hong Kong, Hong Kong	11:30pm-1:30, 4-10am; Sat-
31.48	9.52	HJ4ABH	Armenia, Colombia	6-10pm and early AM.
S31.55	9.51	GSB	Daventry, England	1-3:15am, Nn-6, 9-11pm.
F31.55	9.51	H8SPJ	Bangkok, Siam	Thursdays 8-10am. *
31.55	9.51	HJU	Buenaventura, Colom.	Mon/Wed/Fri 8-11; Su 6-8pm
N31.57	9.505	CXA8	MONTEVIDEO, URUGUAY	Will relay LR3 shortly *
31.58	9.502	XEWV	Mexico D.F.	6pm to midnight, or lam.
31.58	9.50	HJLABE	Cartagena, Colombia	5-10:30pm ex. Sundays.
31.58	9.50	PRF5	Rio de Janeiro, Brz.	4:45-5:45pm ex. Sundays.
B31.58	9.50	VK3ME	Melbourne, Austral.	4-7am except Sundays.
B31.62	9.488	EAR	Madrid, Spain	3-4, 7:30-9:30pm irreg.
B31.73	9.453	TGW	Guatemala, Guatemala	8-10, 11pm-mid, to 5am Sun.
J31.73	9.45	XEDQ	Guadalajara, Mexico	Noon-4:30pm, 8-11:30pm.
B31.78	9.44	HCODA	Guayaquil, Ecuador	8:15-10:15pm ex. Sundays.
31.81	9.43	COCH	Havana, Cuba	7:30am-mid, Sun 8-9am, 11:30 am-1:30pm, 6-9pm.
32.05	9.36		Fort de France, Martinique	5:15-6:15; 8-9pm ir
J32.15	9.33	OAX4J	Lima, Peru	Noon-3 and 5pm-lam.
FJ32.22	9.31	COBC	Havana, Cuba.	8pm-12:30am. *
32.26	9.30	YNGU	Managua, Nicaragua	1-2:55, and 5:30-8pm.
32.87	9.125	HAT4	Budapest, Hungary	Sun/Wed 7-8pm; Sat 6-7pm.
V33.33	9.00	COBZ	Havana, Cuba	6, or 7pm-mid; Sat 1-2am. *
33.33	8.948	HCJB	Quito, Ecuador	7-10pm except Sundays.
34.11	8.795	HKV	Bogota, Colombia	Mon/Thurs 7-7:30pm.
S34.66	8.664	COJK	Camaguey, Cuba	10:30am-12:30pm, 7-10:30pm
34.88	8.60	HCLEC	Quito, Ecuador	
34.88	8.60	YNPR	Managua, Nicaragua	8-10:30pm.
35.27	8.505	YNLG	Managua, Nicaragua	1:30-2:30, 6-10pm.
J36.01	8.33	HC2CW	Guayaquil, Ecuador	7-11pm; Sun 3-5pm
B38.20	7.854	HC2JSE	Guayaquil, Ecuador	9am-2pm, 4-11pm.
38.47	7.797	HBP	Geneva, Switzerland	Sats. 5:39-6pm *
B39.68	7.56	YNLG	Managua, Nicaragua	6:45-9:45pm.
J39.74	7.55	TI8WS	Puntarenas, C.R.	5-7, 8:30-10pm; Sun 5-6pm.
40.30	7.445		Hanoi, F. Indo-China	6-9:30am.
40.65	7.38	XECR	Mexico D.F.	Sundays 6-8pm.
J41.00	7.315	YNLAT	Granada, Nicaragua	8-10pm irregularly
41.00	7.30	HB9BG	Lucerne, Switzerland	Fridays 4-5pm.
41.15	7.29	PSU1	Barcelona, Spain	3:50 and 6:30pm.
41.32	7.26	ED2GT	Bilbao, Spain	Relays EAJ8 at 2:30pm.
V41.55	7.22	ECN1	Barcelona, Spain	Noon-1, 4-5pm; Sun 5-7pm.
41.67	7.20		San Sebastian, Spain	Evenings to 9:30pm.
41.67	7.20	YNAM	Managua, Nicaragua	8-11pm.
42.25	7.10	FO8AA	Papeete, Tahiti	Tues/Fri 11pm to midnight
J42.80	7.00	EA9AH	Tetuan, Sp. Morocco	4:30-7pm irreg.
S43.04	6.97	HC8FC	Quito, Ecuador	Mon/Sat 8-9pm.
43.10	6.96	VK8SC	Port Hedland, Austr.	Sun 4:30-5:30am & irreg.
43.48	6.90	HI2D	Trujillo City, D.R.	5-7pm irreg.
F43.51	6.895	XG0X	Nanking, China.	5:30-9:40am. *
43.60	6.88	TI2RS	San Jose, C.R.	10-11:30pm.
V44.20	6.788	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:40-9:40pm. *
V44.23	6.782	HI7P	Trujillo City, D.R.	7:10-8:40pm; Sun 9:40-10:40
V44.28	6.775	HIH	San Pedro, D.R.	7:40-9:10pm; Sun 5:30-6:30
44.51	6.74	HC1TQ	Quito, Ecuador	Sundays 5-7pm.
44.58	6.73	HI3C	La Romana, D.R.	6:10-7:40pm; irreg to 11p
44.60	6.727	PMH	Bandoeng, Java	5:30-11am
V44.86	6.687	TIEP	San Jose, C.R.	7-10:30pm; Sat to mid.
N45.18	6.64		TAIHOKU, TAIWAN	5-10:15am irreg. *
B45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun 5:30-7:30pm; Tu 9-11pm
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40pm; 5:40-8:40pm.

B45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm.
45.60	6.578	HCVT	Ambato, Ecuador	7-10pm; to 11pm on Friday
45.76	6.555	H14D	Trujillo City, D.R.	5:10-8:10pm ex. Sundays.
45.80	6.55	TIRCC	San Jose, C.R.	Tu/Th/S 6-7pm; Su/Th 9-10pm
45.84	6.545	YV6RB	Bolivar, Venezuela	6:30-9:30pm ex. Sundays
J45.87	6.54	YN1GG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sunday
V46.01	6.52	YV4RB	Valencia, Venezuela	10:30am-1:30pm, 5:30-9:30pm
46.15	6.50	TIOW	Port Limon, C.R.	10-11:30am, Sundays 2-3pm
46.15	6.50	HIL	Trujillo City, D.R.	5:40-7:40pm ex. Sundays.
46.26	6.485		Tetuan, Sp. Morocco	7-8pm.
B46.31	6.479	H18A	Trujillo City, D.R.	5:40-7:40pm ex. Sundays.
B46.33	6.477	H14V	S.F. de Macoris, DR	5:10-6:40pm ex. Sundays.
46.73	6.42	H1S	Santiago, D.R.	6:10-8:10pm ex. Sundays.
46.77	6.416	YV6RC	Bolivar, Venezuela	
46.80	6.41	TIPG	San Jose, C.R.	6-11:30pm.
46.88	6.40	YV5RH	El Valle, Venezuela	5-9:30pm ex. Sundays. (Sun.
47.02	6.38	YV5RF	Caracas, Venezuela	11am-1pm, 5:30-9:30pm ex-
47.14	6.365	YV1RH	Maracaibo, Venezuela	8:30-11pm.
47.20	6.357	HRP1	San Pedro Sula, Honduras	7:45-10pm ex. Sundays.
47.32	6.34	H1IX	Trujillo City, D.R.	12:10-1:10pm; Su 7:40-10:40am; Tu/Fri 7:40-10:10pm.
47.36	6.335	OAX1A	Chiclayo, Peru	8-11pm
S47.43	6.324	COOW	Havana, Cuba	Relays CMW 7am-midnight *
V47.54	6.31	HIZ	Trujillo City, D.R.	5:10-7:40pm ex. Sundays.
S47.54	6.31	TG2	Guatemala City, Guat.	Heard Sundays to 3am & in
47.62	6.30	YV4RL	Maracay, Venezuela	6-10pm except Sundays
47.66	6.295	OAX4G	Lima, Peru	7-11pm.
47.76	6.282	COHB	Sancti Spiritus, Cuba	4-6, 9-11pm ex. Sundays
47.77	6.28	HIG	Trujillo City, D.R.	8:10-9:40pm; T/F 6:40-8:10
47.85	6.27	YV5RP	Caracas, Venezuela	6:30-9:30pm, or later
47.96	6.255	YV5RJ	Caracas, Venezuela	5:30-8pm ex. Sundays. 49M
V48.05	6.243	HIN	Trujillo City, D.R.	5:10-10:10pm, or later.
48.11	6.235	HRD	La Ceiba, Honduras	7:30-10:30pm ex. Sunday
48.19	6.225	YV1RG	Valera, Venezuela	11:30am-1pm, 6-9pm
48.35	6.205	YV1RI	Coro, Venezuela	6:30-9:30pm ex. Sundays.
48.39	6.20	XEXS	Mexico D.F.	10pm-midnight irreg.
B48.39	6.20	COKG	Santiago, Cuba	8-9pm, 11am-2pm, 5-9pm.
V48.39	6.20	ZGE	Kuala Lumpur, FMS.	Sun/Tues/Fri 6:40-8:40am.
V48.47	6.19	H11A	Santiago, D.R.	10:40am-1:40pm, 6:40-9:40pm
SE48.60	6.172	XEXA	Mexico D.F.	7-11:30pm *
48.66	6.165		Bizerte, Tunis	3-5pm irreg.
48.70	6.16	CP12	Cochabamba, Bolivia	Noon-12:30pm, 8:30-10:30pm
B48.73	6.156	YV5RD	Caracas, Venezuela	3:30-10pm
V48.78	6.15	H15N	Moca City, D.R.	6-7am, Noon-2pm, 6-9:30pm.
V48.78	6.15	CJRO	Winnipeg, Canada	6am-mid; Sun 3-9:30pm.
48.81	6.147	ZEB	Bulawayo, S. Rhodesia	Mon 11am-Nn, Tu/T 1:15-3:15pm, Sun 3-4:30am, F10-10:45
V48.82	6.145	HJ4ABU	Pereira, Colombia	9am-noon, 6:30-10pm.
48.86	6.14	W8XK	Pittsburgh, Penna.	8-11pm.
48.88	6.137	CR7AA	Laurenco Marques, Moz	am. 11:45-12:30am, 4:30-6:30am, 9:30-11am, 12:30-4pm.
48.93	6.132	VE9HX	Halifax, N.S.	6:30, 11, 1, 4, and 5-11pm.
V48.93	6.132	VP3BG	Georgetown, B. Guiana	
48.94	6.13	LKJ1	Jeloy, Norway	11am-5pm. (pm
48.94	6.13	COCD	Havana, Cuba	9am-1am; Sun 10am-4pm, 8-10
48.98	6.125	CXA4	Montevideo, Uruguay	8am-Noon, 2-10pm.
48.98	6.125	XEPW	Mexico D.F.	8am-mid; irreg to 2am.
49.01	6.122	HJ3ABX	Bogota, Colombia	10:30am-2:30, 5:30-11:30pm
49.01	6.122	HP5H	Panama City, Panama	Heard irreg.
49.01	6.122	OAX6A	Arequipa, Peru	8-11pm.
B49.04	6.117	XEUZ	Mexico D.F.	9am-1pm, 7pm-3am.
V49.06	6.115	VEB	Colombo, Ceylon	7-9:30am.
49.11	6.109	VUC	Calcutta, India	2:06-3:06am; Sun 12:36am &
49.11	6.108	HJ4ABB	Manizales, Colombia	5:30-10pm ex. Sun; Sat toll
S49.18	6.10	W3XAL	Boundbrook, N.J.	8:15pm to midnight *
49.18	6.10	W9XF	Chicago, Illinois	10pm-lam ex. Sat.
49.18	6.10	YUA	Belgrade, Yugoslavia	1-3, 6:15-8:15am, Nn-5:15pm
B49.20	6.097	HJ4ABE	Medellin, Colombia	7:30-10:30pm.

49.20	6.097	ZTJ	Johannesburg, S. Afr	11:45pm-1am, 3:15-7:30am &
49.26	6.09	GRCX	Bowmanville, Canada	6:45am-4pm; Sat 10-11pm
49.26	6.09	HJ4ABC	Ibague, Colombia	8-10pm ex. Sunday
U49.30	6.085		Mysore, India	M/W/F 8:04-8:34am; Tu/Th/Sa 8:34-9:14am, or later.
49.30	6.085	HJ5ABD	Call, Colombia	7-11pm ex. Sunday (2:30pm &
49.32	6.083	VQ7LO	Nairobi, Kenya	M to F 5:40-6:10, 11:25am-
49.34	6.081	OAX4Z	Lima, Peru	7-11:30pm ex. Sundays
49.34	6.08	W9XAA	Chicago, Illinois	6:30am-midnight ex. Sundays
49.38	6.075	HP5F	Colon, Panama	7-10:30pm.
U49.38	6.075	XECU	Guadalajara, Mexico	8-11pm.
B49.38	6.075	YV1RD	Maracaibo, Venezuela	5-10pm.
N49.40	6.072	OER3	Vienna, Austria	10am-5pm; Sat to 5:30pm. *
49.42	6.07	CFRX	Toronto, Canada	6:30am-5pm; Sat 11pm-mid; Sundays 11am-5pm.
49.43	6.69	HJ3ABF	Bogota, Colombia	7pm-mid, except Sundays.
49.46	6.065	SBG	Motala, Sweden	1:30-5pm
49.47	6.064	VP3MR	Georgetown, B. Guiana	4:45-7:30pm.
49.50	6.06	OXY	Skamlebaek, Denmark	1-6:30pm; Sun 11am-7pm.
49.50	6.06	W3XAU	Philadelphia, Penna	7-10pm.
S49.50	6.06	W8XAL	Cincinnati, Ohio	6am-7pm, 10pm-2am.
S49.53	6.057	ZHJ	Penang, S.S.	6:40-8:40am.
V49.65	6.042	HJ1ABG	Barranquilla, Colom	6:30-11pm ex. Sundays.
49.67	6.04	W1XAL	Boston, Mass.	
B49.72	6.033	HJ4ABP	Medellin, Colombia	8-11pm ex. Sundays
49.75	6.03	HP5B	Panama City, Panama	8-10:45pm
49.75	6.03	VE9CA	Calgary, Alta, Canada	10am-2am.
49.79	6.025	HJ1ABJ	Santa Marta, Colom.	5:30-10:30pm ex. Sundays.
B49.83	6.02	XEUW	Veracruz, Mexico	10pm-1am.
49.83	6.02	DJC	Zeesen, Germany	11:35am-4:30pm
V49.86	6.017	HI3U	Santiago, D.R.	4:40-9:40pm ex. Sundays.
49.91	6.012	HJ3ABH	Bogota, Colombia	4-11pm; Sun 4-9pm
49.92	6.01	COCO	Havana, Cuba	7:55am-10pm, or later.
49.92	6.01	9MI	S.S. Kanimbla	Sun, Wed/Thur 6:55-7:30am.
S49.92	6.01	FIU	Tananarive, Madagascar	9:45-10:45am, 1:30-2:30pm
S49.94	6.007		Rangoon, Burma	9-9:30am and 9:20-9:40pm. *
S49.95	6.005	CFCX	Montreal, Canada	6:45am-mid; Su 8am-10:15pm
V49.95	6.005	HP5K	Panama City, Panama	7-8am, 8-10:30, or 11pm.
50.00	6.00	XEBT	Mexico D.F.	10am-1:45am.
50.00	6.00	CXA2	Montevideo, Uruguay	4-10pm; Sunday to 9pm.
V50.08	5.99	HJ2ABD	Bucaramanga, Colom.	6-10pm.
50.21	5.975	OAX4P	Huancayo, Peru	9-11pm
V50.21	5.975	HJ4ABD	Medellin, Colombia	8-11pm. (Sun.)
V50.38	5.955	HJN	Bogota, Colombia	11am-2pm, 8:30-10:30pm ex.
50.45	5.947	PJC1	Curacao, D.W.I.	6:36-8:36pm; Sun 10:36am-
50.51	5.94	TG2X	Guatemala, Guat.	M/W/Sa 9-10:30pm (12:36pm.
50.53	5.937	YV1RL	Maracaibo, Venez.	11am-1pm, 4:30-9:30pm.
V50.64	5.925	HH2S	Port-au-Prince, Haiti	7-10, or 11pm ex. Sundays.
50.71	5.917	YV4RH	Valencia, Venezuela	5-9:30pm ex. Sundays.
50.81	5.905	TILS	San Jose, C.R.	Noon-2:30pm, and 6-11pm.
50.85	5.90	ZNB	Mafeking, Bechuanaland	2-3am and 1-2:30, or 3pm
N50.93	5.89		Saigon, F. Indo-China	11pm-1am; 5:30-9:30am *
50.98	5.885	HI9B	Santiago, D.R.	6:40-8:40pm.
51.07	5.875	HRN	Tegucigalpa, Honduras	6-9:30pm.
51.11	5.87	YV3RA	Barquisimeto, Venez	5:30-9:30pm ex. Sundays.
51.24	5.855	HI1J	San Pedro, D.R.	11:40am-1:40pm, 6:10-8:40pm
51.28	5.85	YV1RB	Maracaibo, Venez.	10:45-12:40pm, 4:30-9:30pm.
B51.55	5.82	TIGPH	San Jose, C.R.	N'n-2pm, 7-11pm ex. Sundays.
51.61	5.813	T12H	San Jose, C.R.	7-11pm.
51.72	5.80	YV5RC	Caracas, Venezuela	4-10:30pm; Sun 1:30-10pm.
51.90	5.78	OAX4D	Lima, Peru	Wed/Sat 9-11:30pm.
F51.95	5.775	YV2RA	San Cristobal, Ven.	5:30-9:30pm ex. Sundays.
52.10	5.758	YNOP	Managua, Nicaragua	8:30-10:30pm ex. Sundays.
52.30	5.735	HC1PM	Quito, Ecuador	Tues 9-11pm & irreg.
F61.86	4.85	HJ3ABD	Bogota, Colombia	7pm-midnight.
F62.71	4.787	HJ2ABC	Cucuta, Colombia	6-10pm ex. Sundays.
F62.76	4.779	HJ1ABB	Barranquilla, Colom.	8:30 to 10, or 11pm.
65.22	4.60	HC2ET	Guayaquil, Ecuador	Wed/Sat 8-10pm.