

THE GLOBE CIRCLER

NOVEMBER 1936



"Believe it or not" Robert L. Ripley and
Bangkok, Siam, Temple Dancers.

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

SHORT-WAVE COMMERCIAL STATION LIST

W2XAF/IDA CHRISTMAS PROGRAM

BUILDING AN 86 FOOT AERIAL MAST

DX AROUND THE WORLD

SHORT-WAVE STATION NOTES

CHINA-JAPAN BROADCAST STATIONS

BROADCAST STATION NEWS

AUSTRALIA 6WA, Minding, W.A., 560kC, 10kW, should be testing this month .. 6WB, Katanning, W.A., 1070kC, 2KW, which relays 6IX, took the air on Sept. 26.. 6GF, Goldfields-Kalgoorlie, W.A., will be on the air shortly.. The new station for Geraldton, W.A., is to be started soon.

CUBA CMKW, Santiago, 1330kC, owned by Reparto Sueno, on the air

ENGLAND The new 60kW Burghead, Scotland, transmitter will begin operation this month. It will use an anti-fading aerial.. BBC television transmissions are being radiated daily from 6-7 and 10-11am EST

FRANCE The removal of Radio-Normandie from Fecamp to its new location at Louvetot will be effected within a few weeks time.

INDIA Eight new broadcasting stations have been authorized as follows: 5kW medium-wave stations for Trichinopoly, Dacca, Lucknow and Lahore; a 5kW medium or short-wave station for Madras; a 5kW short-wave station at Delhi; a 5kW short-wave station for Calcutta; a 5kW short-wave station for Bombay; a 250-watt medium-wave station for Peshawar.

I.F.S. Athlone, 565kC, has increased power from 60 to 100kW.

MEXICO XEBZ (Formerly XEWZ), Vocero Mexicano, Av. Juarez Num 75, Box 291, Mexico D.F., now on 820kC, will broadcast for their American Dx friends on the first Saturday of each month (J. Hyde)

POLAND Wilno, 536kC, will be radiating with 50kW shortly and Lwow 795kC, will be radiating with 50kW by about December 1. The old transmitters may be used for new stations at Gydnia and Pinsk. (soon.)

P.R. WPRO, Mayaguez, 1370kC, 100watts, will be in operation

SPAIN EAJ5, Seville, 795kC, apparently is broadcasting rebel news about 24 hours daily. EAJ15, Barcelona, 1022kC, seems to be doing likewise for the government. (Stansfield)

U.S.A. New stations authorized for: Warsaw, Wisc., 1370kC, 100w; Winston-Salem, N.C., 1250kC, 250w daytime; Kinston, N.C., 1200kC, 250-100w; Corsicana, Texas, 1310kC, 100w daytime; Huntsville, Ala., 1200kC, 100w; KSJS, Salina, Kans., 1500kC, 100w; Jefferson City, Mo., 1310kC, 100w daytime; Hammond, Ind., 1480kC, 5kW daytime; Pittsburg, Kans., 790kC, 1kW daytime; St. Louis, Mo., 1250kC, 1kW; KGSS, Sioux Falls, S.D. 1200kC, 100w; Watertown, New York, 1420kC, 250-100w; Cedar City, Utah, 1310kC, 100w; Changes authorized by the F.C.C: WCBD, 1080kC, 5kW, moved to Chicago, Ill; WMEX, Boston, Mass., Frequency now 1470kC, power now 5kW, WSPG to WGAN, Portland Maine, 640kC, 500w. Power increases: KFRQ, day power to 250w; KGGM, night and day power to 1kW; WKBI, day power to 250w; WEHS, day power to 250 watts; KMLB, day power to 250w; WGR, day power to 5kW; WGST, day power to 5kW; WROA, day power to 250w; KRGV, to 1kW; WMFG, day power to 250w; WMIN, day power to 250w; WLBL, to 5kW; KVOA, to 1kW; KDNC, day power to 250w; WGY has applied for permit to use 500kW power.

YUGOSLAVIA New stations are proposed as follows: a 100kW station for Belgrade; a 20kW station for SKoplje; a 3kW relay station for Maribor. Zagreb will be increased to 20kW power and Ljubljana to 20kW. The old Zagreb transmitter will be moved to Sarajevo.

BROADCAST CALENDAR

NOV. 14, Sat.	11:30pm-mid. EST,	La Paz, Bolivia.	NNRC	CP4	1040kC
NOV. 14, Sat.	11:30pm-mid. EST,	La Paz, Bolivia.	NNRC	CP6	9.12mc
DEC. 24 Thur	(6:30-7:30am EST,	Schenectady, New York	(W2XAF		9.53mc
	(11:30am-12:30pm GMT--		(W2XAD		15.33mc
	(9:30-10:30pm	(Christmas Eve-East Australian Time)			

This program, which will reach Australia, N.Z., D.E.I., etc on Christmas Eve, will be a good-will transmission to IDA members in all parts of the world. Program will include Christmas Carols, messages of good-will, awards for best and most distant reports and many other novel features. In order to make this the most successful broadcast we have ever had the privilege of sponsoring, we wish EVERY IDA FOREIGN REPRESENTATIVE to see that this broadcast is given publicity in your local newspapers and periodicals. For his friendly co-operation and generous support of the I.D.A., we urge every IDA member to report to Eugene Darlington, Director of S.W. Broadcasting, W2XAF/W2XAD. You can make this card or letter serve as a report and at the same time a little Christmas greeting or expression of thanks to Mr. Darlington.

DX AROUND THE WORLD

CENTRAL U.S.A.: TP DX opened with a bang on Sunday, Oct. 11. I heard at least 20 "Aussies" on BCB. Logged 2NR on 700kC as a new one. He was just like a local. 2GZ on 990kC was good but did not have time for log before it faded out. Hope to log other new ones soon (DeMyer, Michigan)

EASTERN CANADA: All BBC stations strong. New Belfast Regional on 977 kC is the best of the lot. Other BCB stations well heard are: Bordeaux (1077)- Lille, Lyons (648), Marseilles, Nice (1185), Paris, Fecamp, Strasbourg, Toulouse (776-913), Frankfurt, which is apparently carrying a late program until 7pm EST or later, Bari, Milan (814), Turin, Rome (713) CT1GL, EAJ3, EAJ5, EAJ7 and EAJ15, Radio Lyons (1394) putting in a good signal. The new Bologna, Italy (1222), has been heard with fine volume, carrying same program as Milan, Turin, etc. The Italians sign-off at 6:30pm. Have been hearing a new Brazilian recently on 980kC after Belfast signs off at 7pm. It may be PRC6? Droitwich (LW) seems to alternate with Regional and National programs. Moscow 1 (LW) carries the same program as RAN (9.6mc) and signs off at 8pm. Huizen, Droitwich and Reykjavik are best long wave stations. (E.L. Peters, Westport, N.S.)

GT. BRITAIN: For period under review, conditions for BCB reception from U. S. and Canada were about the best since 1933-34 season. SA's were slightly weaker and mostly buried under NA's. Static level was low and fading not deep enough to reduce 100% intelligibility of the stronger stations. Best heard stations before 12:30am GMT were: LRL, WBZ, WTIC, WPG, WBT, WCAU, PRE3, WNAC, PRC6, WAAB, LR3, WOR, WABC, WEEL. Best heard stations between 2 and 4 am GMT were: WCAU, WTIC, WBZ, WOR, WABC, WPG, WBT, VONF, KMOX, WOAI, WJZ, WNAC, WAAB, LRL, WHAM, WHN, WINS, WDRG, WBBC, WIOD, WWL, CRCT, WKAQ, WNEL, WEAF, CRCK, WHAS, KFI, WLW. 25 others heard with volume of R5 or less. (R. Stansfield, Woking, England)

PHILIPPINES: At this time of the year reception here is rather noisy on both the BCB and SW. It seems to be due to unsettled atmospheric conditions and typhoons. PMY, RV15, ZHJ and ZHI are coming through the static. The following SW stations are logged consistently: VK3ME, PRF5, VK2ME, VK3LR, DJA, DJN, GSB, GSC, VPD2, CT1AA, LKJ1, YDB, EAQ, CQN, PMN, JVN, JVM, PLP, TPA4, GSD, DJD, 2RO, SPW, DZH, DJB, PCJ, TPA2 and DJQ. Sometimes DJE, W3XAL PHI and GSG can be heard on the 16 meter band (E. Castillo, Philippines)

BARBADOS, BWI: Plenty of thunderstorms lately are spoiling reception. Conditions have improved slightly however, and Daventry is coming in better. W2XAF is badly heterodyned. I am using one of the new RCA Spider Web Antennas. Have veri's from 26 stations on the SW and WLW and WHAS on the Broadcast band (A.E.A. Thomas, Barbados)

APPOINTMENTS

DIRECTOR- 5th Dist. (Fla, Ga, Ala., Miss, S.C., N.C., Tenn): G. T. Magee, 2809 S. 13th Ave, Birmingham, Ala.

ASST. DIRECTOR- 1st Dist: Elwin T. Smith, Harrah, Washington.

GENERAL STATES MANAGER

Washington, Oregon, Idaho: Russell Du Cette, 314 Union St, Seattle.

FOREIGN REPRESENTATIVES

New Zealand: Leslie Wilson, Taranaki Club, New Plymouth, N.Z.

Wardward Islands: Cyril Volney, Wireless Station, St. Lucia, B.W.I.

5th Dist. members send in your verified logs to new Dist. Director G. T. Magee, 2809 S. 13th Ave, Birmingham, Alabama. The goal this year is to double membership in Dixie District. When changing address, be sure and notify your District Director as well as Headquarters. IDA members in Washington, Oregon and Idaho, please write to Elwin T.

Smith of Harrah, Washington, including your verified log, a list of prospective members you might have and any ideas for organizing the N.W. states more fully.

INTERNATIONAL DX CONTESTS

Now is the time to send your 50¢ fee to Contests Director, J. Dickenson, P.O. Box 95, Regina, Sask, Canada. Any dx'er may enter either the SW or the BCB contest and will have an equal chance with any other dx'er regardless of geographical location. Upon receipt of your fee Mr. Dickenson will forward your entry card, number, handicap rating and a complete set of rules. The complete list of awards will be published in an early G. C. and already includes a fine Communications receiver. Standings will be published each month starting about February 1. All real IDA members will support these contests.

Subscription price \$1.25 per year anywhere.

International



Dx'ers Alliance

Published Monthly Excepting July

CHARLES A. MORRISON
EDITOR

VOLUME 4

BLOOMINGTON, ILLINOIS, U. S. A.

NO. 10

EDITORIAL

We have needed a mimeograph here at headquarters for some time. We have no fund to provide the purchase price for this necessary equipment- so for the first time in the history of the IDA, we are soliciting voluntary financial donations from you members for the purchase of a mimeograph and a supply of stencils.

With a mimeograph we will be in a position to give you additional services. Most important, we have in mind editing a last minute page of stop-press short-wave and broad cast band news, just before mailing the Globe Circler, which would bring all information right up to the last minute. We could also edit supplementary bulletins of various natures from time to time, such as IDA Stamp Guild notes, revised station lists, Amateur news, special IDA club announcements, press material, etc. It can readily be understood that a mimeograph is almost essential in an organization such as ours for turning out forms of various kinds.

We are willing to take on the extra work if you are willing to provide the necessary wherewithal to do the task with. We know that many of you are financially able to make a substantial contribution towards this fund. Others will not be able to give more than a small donation. We know that some of our members would like to help but are not able to financially. We will be glad to have each of you do what he or she can. Those who can, kindly help out as generously as possible. Please send all donations by check, money order or cash to Vice-President John DeMyer, 545 Baker St, Lansing, Michigan, who will turn same over to me, when the necessary amount has been reached. Thank you one and all for your co-operation.

There seems to be a growing tendency in the IDA to "let George do it". This is contrary to the spirit

of the IDA. If each member will only do his share in promoting the cause of the IDA all will be fine.

(a) We need more new members. Wont you recommend the IDA to your DX friends?

(b) You can help us immeasurably by paying your renewal subscription promptly.

(c) If we are to continue to edit a section devoted to broadcast band foreign dx'ing, we MUST have more reception notes, more station data and more tips.

Charles A. Morrison, President.

CHAPTER NOTES

DELTA (Lansing): First meeting of the season was conducted on Oct 8, at home of Howard Eck. The November meeting will be held at the home of John Thomann.

REGINA JUBILEE (Regina): Prizes awarded in the local S. W. contest follow: General Electric clock to W. Ansell; Set Marconi tubes to Newton; English Razor (T. Eatons) to L. Westmoreland; General Electric clock to Hodges, Sr; Radex sub. to Johnston and Radex sub. to Thompson. In the BCB contest awards were as follows: Stromberg Carlson aerial to Westmoreland and a pen and pencil set (R. Simpsons) to J. Dickenson. Merchandise to be awarded will be displayed together with prize veris and IDA placards in the down town window of R. W. Williams & Son.

BETA (New York): Will have big meeting shortly in which an effort will be made to have all IDA members in Greater New York present. Plans will be presented at this meeting for a vigorous publicity campaign, including local newspapers, periodicals and radio stations. BETA is out to capture the IDA Chapter's blue ribbon this season.

CALGARY FOOTHILLS (Calgary)--- Started the season off with a bang with fine turn-out at first meeting and five new members enrolled. Calgary is out this season to show up the Regina stalwarts.

AUTO CITY CHAPTER (Detroit):-

Thanks to the activity of C.M. Bolton, of 11411 Evanston Avenue, the Auto City Chapter has been organized, and a charter meeting will be held in the near future.

HERE AND THERE: W. Russell Ductette, of Seattle, notifies me that the old KJR xmtr. will be dismantled in about a month. The new KJR-KOMO xmtr. is to radiate both red and blue NBC network programs through one transmitter and one aerial. This is the first time this stunt has been tried on such close frequencies as that of KOMO on 920 and KJR on 970kc. Engineer F. J. Brott, will be interested in reports on cross talk and modulation. J.G. Andrews, program manager of CFRC, 930kc, Prescott, Ontario, informs me that this little 100 watt station, which has been heard in N.Z. and S. Africa, will radiate DX programs for the leading DX clubs, including IDA from 2 to 5am EST, on November 29, December 27 and the last Sunday in January and February. Here's a choice DX goal for some of our foreign members. Don't forget the latest IDA news and notes on foreign stations are put by E. S. Darlington over W2XAF and W2XAD, weekly on Tuesdays at 5:35pm EST.

BEST LOG SUBMITTED BY NEW MEMBERS

The best log of verified stations submitted by members enrolled with in the last month, is that of Mr. Pedro Rodriguez, of New York City. Mr. Rodriguez uses a McMurdo Silver Masterpiece V, with which he has amassed the following Log: HCJB, HC2RL, PRADO, HJ4ABC, HJ3ABH, HJ1ABB, HJ4ABE, HJ1ABE, HJ1ABG, HJ4ABA, HJU, YVQ, YV2RC, YV3RC, YV6RV, YV12RM, COH, COC, CO9JQ, COCD, CMCY, CMBC, CMCF, CO9WR, CPL, EA8AF, HP5J, HP5B, EAQ, EA3CH, ZEUV, XECR, XEBT, TG2X, TGW, HI6F, HIZ, H11J, H1X, H1I, H1G, H13C, H11A, H1H, HRD CBL3R, LRU, T1PG, ETB, DJB, DJC, DJN, HH2S, HH2W, PRF5, VK2ME, VK3LR, VK3ME, ORK, RW59, HAS3, HATH, CT1AA, JVM, 2R03, OPL, OFM, Radio Coloniale, CNR, VPD, PZ1AA, VP3MR, HB3, VP2CD and VOII, as well as several U.S.A. stations.

IDA HAM RIGS

G. T. Magee, of 2809 S. 13th Ave, Birmingham, Ala, W4EHH, has a rig composed of a 47 xtal osc, 802 Buffer-Doubler and a pair of 802's in the final. His input is about 40 watts. Usually works CW on 3.612 or 7.224

mc.. Plans on trying fone on 10m and 160m soon... OM, M. Michaelson, of 1815 First Ave. S, Apt. 303, Minneapolis, Minnesota, using call W9-BHD, uses rig with 3000 volts on plate and pair of 852's in final. Works CW on 7.1 and 14.2mc. Either of these OM's will be glad to arrange sked with other IDA hams.

DIST. MEMBERSHIP CONTEST STANDINGS
 Dist-6 (E. Central States) 18
 Dist-1 (North West US-Canada) 10
 Dist-4 (W. Central States) 6
 Dist-97 (Australia) 6

NEW I.D.A. MEMBERS

R. Jose Russell, LSU, Baton Rouge, La.
 Jos. T. Lippincott, Tuft's College, Massachusetts.
 Monsieur Burois, Ecole d'Agriculture, Chateau Salins, Mosells, FRANCE.
 H. Tucker, Akron, Ohio.
 H. Campbell, Athens, Pennsylvania.
 John Catley, Calgary, Alta, CANADA.
 N. Wilson, Calgary, Alta, CANADA.
 T. J. Enstone, Calgary, Alta, CANADA.
 Jerry Nevard, Calgary, Alta, CANADA.
 William Gamble, Calgary, Alta, CANADA
 Evan S. Morrow, Detroit, Michigan.
 W. H. Boyle, Regina, Sask, CANADA.
 K. T. Stordal, Royal Technical Univ. Stockholm, SWEDEN.
 Cyrus B. Will, Kenilworth, Illinois.
 J. F. Satterwaite, Toledo, Ohio.
 Pedro Rodriguez, New York City, N.Y.
 George F. Roche, Amesbury, Mass.
 Louis P. Ambrosius, Plymouth, Mich.
 William Wallace, Detroit, Michigan.
 Clyde Criswell, Mission Ranch, Phoenix, Arizona.
 E. H. Rhoadus III, Toledo, Ohio.
 Lyle Nelson, Yamhill, Oregon.
 James L. Steele, Morristown, N.J.
 Clair E. Fultz, Columbus, Ohio.
 L. R. Fritsch, Communications Dept., P. O. 150, Tripoli, Lebanon.
 Senior Juan Suarez Castro, YV5RMO, "Ecos del Zulia", P. O. Box 37, Maracaibo, VENEZUELA.
 Roger Legge, Jr., Philadelphia, Pa.
 Robert Fisk, Detroit, Michigan.

EMISSORA NACIONAL IDA BROADCAST
 FAD member Robt. Ludwig of Toledo, Ohio, Announces that arrangements have been completed for an IDA DX Broadcast from Emissora Nacional, of Lisbon, Portugal, for TUESDAY, DECEMBER 22, at 1-2:30am EST (6-7:30 am GMT); Emissora Nacional operates on 629kc with 20kW power. Reports should be addressed to Emissora Nacional, Rua do Quelhas, Lisbon, Portugal.

WITH OUR MEMBERS

(Correspondence Corner)

Warren Stark, 2117 North 62nd St., Wauwatosa, Wisconsin, would like to correspond with members in S.A., N.A., C.A., N.Z., France, Germany or Australia.

Lyle Nelson, Yamhill, Oregon, would like to correspond with members in any foreign countries, especially England or India.



Bedside Listening Post of, Floyd Murphy, Palestine, Ill. Confined to bed for 2 years



Mrs. Angela Michaelson, New Partner in Mpls. DX Firm of Michael Michaelson, Inc.

Aerials: Have a new 20-meter phone antenna, made of paper mill cylinder screen, in a semi-vertical position, which is the best I have ever used (I. Goodeve, 210 Chestnut St., Kalamazoo, Michigan); Am using a 10-meter inverted L aerial consisting of 7 wires only about two inches apart and strung very tightly. Wires are connected at both ends. Best have tried here. (R.J. Russell, Louisiana State Univ., Baton Rouge, Louisiana); Whitehouse Copper Screen aerial, first described in Feb., 1935 Globe Circler, has been greatly improved. For details write C. Whitehouse, 914 S. Fell Ave., Normal, Ill..

New Aerial Wire: Sensational new type of wire developed for dx work after years of experimentation and which is to appear on the market soon will be described in the DECEMBER Globe Circler (H. Johnson, 1006 S. Barker, Bloomington, Ill.)

Due to prolonged ill health, only recent veris are Alexandria, Egypt and WMEX (W.K. Walton, England).. Have heard hams in S.A., Australia, England, Fiji's, N. Z., Cuba, Alaska Japan, Belgium and Canarias with my Bretling receiver and half wave aerial (Goesle Calif).. J. Dunigan of New Britain, Conn., long bed-ridden, has realized a most cherished wish when he was qualified as a voter and given an absentee ballot.. Using a Patterson PR-16 and an RCA Spider Web antenna, have logged 64 countries, with 40 verified (F. Murphy, Ill).. Have 29 foreign countries verified (Underwood, Oregon)..

After pleasant vacation in Salt Lake City and Ogden have return-



Well equipped DX Shack, of Member Clyde Criswell, Mission Ranch, Arizona.



John Bohm (left), Melung, Sweden, with his brother and sister, in Dalecarlian National dresses

to Monarch, Wyoming, for winter (Jas. Woodhead).. My 18-tube Midwest came on July 9. What power! and what a tone-realism! (Abderhalden-Amboine, Moluccas).. Have just returned home after five weeks in Canada and a visit to W2XAF and New York City on way back (Violet Allwood, Jamaica) .. Took on an OL on Sept. 5 and then a honeymoon trip into Oklahoma and Arkansas, stopping at the Texas Centennial on way back (R. DeMent, Plainview, Texas).. Have ordered a new Scott and in meantime, am building two 125' aerial towers. (Criswell, Arizona).. Have 300 stations logged, 40 BC and 15 SW from U.S. alone, among them KOMA WLAG and WCKY. Have 15 Javanese logged. Have Hong Kong, Japan, Siam and India on SW. (Mrs. Roche, S. Africa).. Anticipation of a general rise in temperature and often a high barometer seems to have a salubrious effect on reception (Campbell Penna).. Here are the first 50 VK phones I have logged on 20m: VK2QR, 2XU, 2NO, 2AS, 2UC, 2OC, 2BQ, 2EF, 2AP, 2HS, 2UN, 2BK, 2MH, 2AZ, 2TC, 2NY, 2JA, 2LO, 2FB, 2IQ, 2DW, 2ABD, 2BG, 2JU, 2ABA, 2HL, 2HF, 2TI, 2RJ, 3KX, 3KC, 3XA, 3AC, 3AX, 3OC, 3ZZ, 3JT, 4JU, 4JX, 4BS, 4DB, 5ZX, 5SU, 5WJ, 5JB, 5WG, 5JC, 5AI, 6MW, 7JB (DeMyer, Mich.) .. Would like to exchange SWL cards with any members (W. Ansell, 168 Wascana St. North, Regina, Sask., Canada)

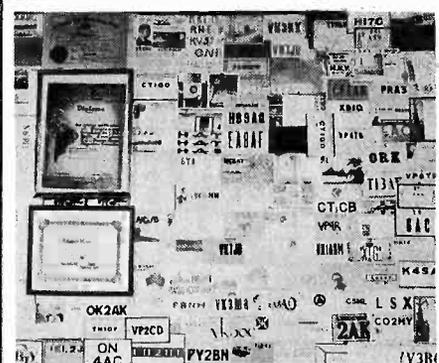


James Duniak,
Phoenixville, Penna.,
at his receiver.

IDA STAMP GUILD: We want the name of every member, who wishes to be registered in the IDA Stamp Guild at once, as we hope to announce the appointment of ISG officers in January G. C. and to start the stamp bulletin shortly after. The latest stamp enthusiasts to pledge their support are: A. E. A. Thomas, Cullsdan Rd., St. Michael No. 16, Barbados, BWI; J. L. Sullivan, Alpha St, Cambridge, N. Z.; Fred Cox, 1106 King's Rd., Victoria, BC, Canada; Russell Graham, 1005 Allard Ave, Apt. 2, Verdun, P. Q., Canada; A. L. Hynes Clarendville, Newfoundland; H. Mender, 3145 Brighton 4th St., Brooklyn, NY; Cyrus Will, 651 Brier St, Kenilworth, Ill; B. A. Meserve, 564 Westbrook St, South Portland, Maine; M. Gaillard, 59 rue du Verger, Chatellersault (Vienne), France; Chas. Guilbert, 35 rue de l'Ecluse, Deauville, (Calvados), France; A. T. Yamamoto, 5116-5118, Oimachi, Shinagawa-Ku, Tokio, Japan; Aziz Cassis, c/o Mixed Court, Mensoura, Egypt.



Murray Buitekent
Black Sheep of Beta Chp
Brooklyn, New York



Exceptional Veri' Collection-
Raymond C. Messer,
South Portland, Maine.



DX Corner of,
Thaddeus L. Grabek,
Niagara Falls, New York

CHINA-JAPAN BROADCASTING STATIONS

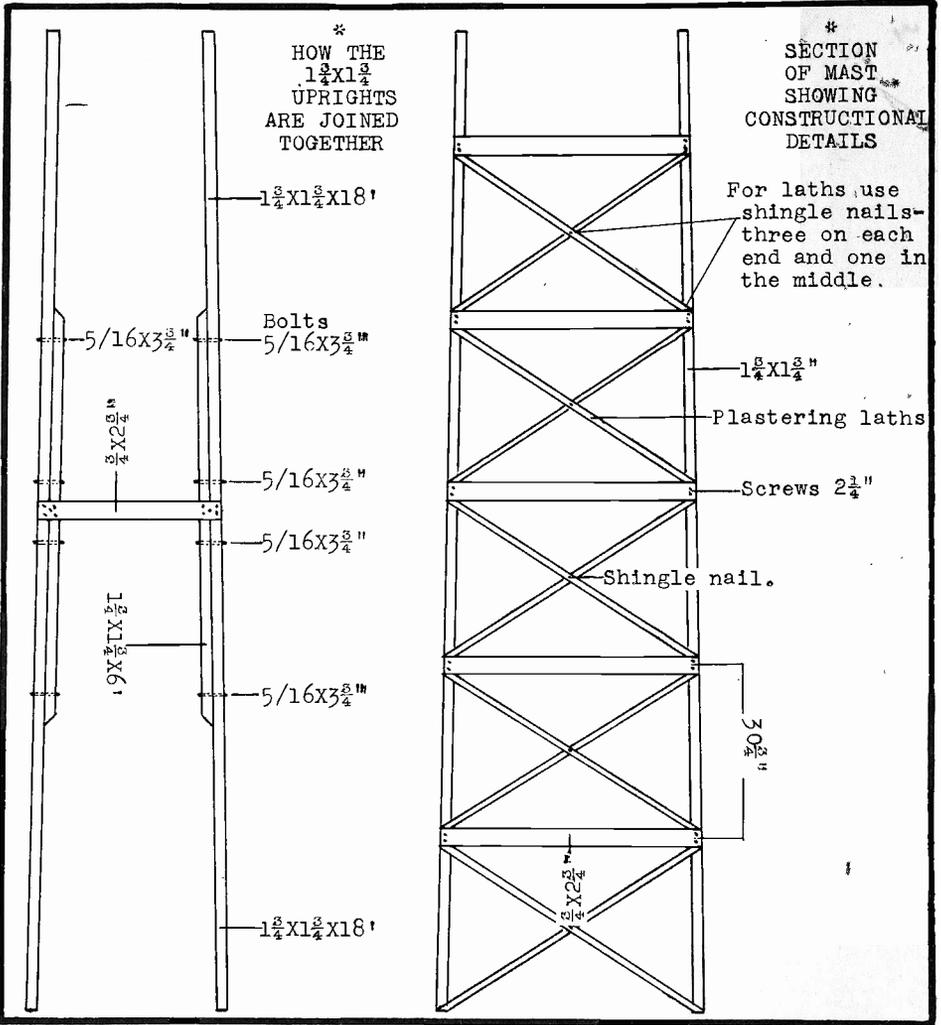
(Stations having over 50 watts)

Compiled by G.M.Cornfield of Hong Kong and corrected to October, 1936.

KC/S	CALL	LOCATION	WATTS	KC/S	CALL	LOCATION	WATTS
560	XGOG	Chengtu, Szechwan	10000	890	JOLG	Tottori, Japan	500
560	XLHB	Canton Rd, Shanghai	45	900	XGOI	Shanghai, China	500
560	MTCY	Shinkyu, Manchukuo		910	JOLK	Fukuoka, Japan	500
			100000	910	XLIM	Amoy, China	50
580	JFCK	Taichu, Taiwan	1000	920	JOQK	Miigata, Japan	500
580	XQHA	Love Lane, Shanghai	250	920	XHHX	Rt, Kalo, Shanghai	100
590	JOAK1	Tokyo, Japan	*150000	930	JOAG	Nagasaki, Japan	500
590	XHKB	Chungshan, Tsingtao	100	940	JOBK2	Oseka, Japan	10000
590	XGOH	Changsha, Hunen	100	940	XHHE	Shanghai, China	100
600	JONG	Miyazaki, Japan	500	950	JONK	Nagano, Japan	500
600	XMHA	Shanghai	E- 500	950	XGOP	Peiping, China	300
610	JOJK	Kanazawa, Japan	3000	960	XHHF	Hupeh Rd, Shanghai	100
614 ^{1/2}	KZRM	Manila, P. I.	50000	970	JODK2	Keijo, Chosen	10000
620	XHHK	Peking Rd, Shanghai	100	970	XHIB	Wusih, China	75
630	JOKK	Okeyama, Japan	500	980	JOXK	Tokushima, Japan	500
640	JODG	Hamamatsu, Japan	500	980	XMHB	Hart Rd, Shanghai	500
640	ZEK	Hong Kong, China	500	990	JOCK2	Nagoya, Japan	10000
640	XLHG	Shanghai, China	100	990	XGOD	Hangchow, China	2000
650	JOUK	Akita, Japan	300	1000	JOBG	Maeabashi, Japan	500
660	XGOA	Nanking, China	E-75000	1000	XGOT	Taiyuen, Shensi	50
670	JOTK	Matsue, Japan	500	1010	XGOW	Hankow, China	5000
674	MTFY	Harbin, Manchukuo	3000	1020	JOFG	Fukui, Japan	300
680	JOVK	Hakodate, Japan	500	1020	XHHG	Thibet Rd, Shanghai	100
690	JOBK1	Osaka, Japan	10000	1030	JBAK	Fusan, Chosen	150
697	XGOY	Kwemming, Yunnan	250	1030	XGOL	Foochow, China	10000
700	JOCG	Asahigawa, Japan	300	1040	JOJG	Yamagata, Japan	500
700	XMHC	Ave. Rd, Shanghai	E- 500	1050	XHKA	Tientsin, China	1000
710	JODK2	Keijo, Chosen	*50000	1050	JOHG	Kagoshima, Japan	500
711	XGOS	Chungking, Szechwan	1000	1060	XHHI	Nanking Rd, Shanghai	100
720	JORK	Kochi, Japan	500	1060	JOIG	Toyama, Japan	500
720	XLHC	Peking Rd, Shanghai	50	1070	XGOX	Kaifeng, Honan	200
720	XHHB	Ave. Foch, Shanghai	50	1070	JOOK	Kyoto, Japan	300
720	JFBK	Tainan, Taiwan	1000	1070	XKRI	Canton, China	100
730	JOCK1	Nagoya, Japan	10000	1080	JOOK	Obihiro, Japan	500
740	JOSK	Kokura, Japan	1000	1090	JBBK1	Keijo, Chosen	500
750	JFAK	Taihoku, Taiwan	10000	1100	XHHS	Kiangse Rd, Shanghai	100
750	XQKB	Tientsin, China	150	1120	XLHM	Shanghai, China	50
750	XGOK	Canton, China	1000	1120	XLJN	Shanghai, China	200
760	JQAK	Dairen, Manchukuo	500	1130	XGOC	Nanchang, Kiangsi	250
770	JOGK	Sendai, Japan	10000	1140	XHHL	Thibet Rd, Shanghai	100
770	XHID	Ningpo, China	75	1150	XGOZ	Chinkiang, China	1000
780	JOPK	Shizuoka, Japan	500	1160	XHHU	Nanking Rd, Shanghai	100
780	KZEG	Manila, P. I.	1000	1170	XLIF	Wusih, China	100
780	XLHA	Nanking Rd, Shanghai	50	1180	XHHZ	Canton Rd, Shanghai	150
790	JOGK	Kumamoto, Japan	10000	1200	XHHN	Shanghai, China	100
790	XLIJ	Wusih, China	75	1210	XHKC	Tsingtao, China	100
800	XLHL	Republic Rd, Shanghai	100	1220	XQHG	Shanghai, China	250
800	JOKG	Kofu, Japan	500	1230	XLIR	Hangchow, China	50
810	JOIK	Sapporo, Japan	10000	1240	XHHY	Thibet Rd, Shanghai	100
810	XQKC	Tientsin, China	200	1250	XLIE	Wusih, China	50
820	JBBK2	Keijo, Chosen	500	1260	XHHP	Shanghai, China	100
830	JOFK	Hiroshima, Japan	10000	1280	XHJA	Hankow, China	100
830	XQHB	Maresca, Shanghai	100	1290	XGOB	Si-An, Shensi, China	500
840	ZBW	Hong Kong, China	2000	1300	XQHC	Shanghai, China	E- 500
840	XMHD	Museum Rd, Shanghai	1000	1300	XGOE	Nanning, Kwangsi	1000
850	XLIQ	Hangchow, China	50	1310	XLIP	Soochow, China	50
852	XGOF	Tsinan, China	500	1330	XLIK	Chengchow, China	75
860	XHHD	Sinza Rd, Shanghai	50	1340	XHHR	Carter Rd, Shanghai	50
870	JOAK2	Tokyo, Japan	*150000	1350	XQKA	Tientsin, China	E- 150
870	XHIC	Soochow, China	75	1360	XQHD	Ningpo Rd, Shanghai	200
880	XHHV	Ave. Foch, Shanghai	100	1370	XLHF	Shanghai, China	50
890	MTBY	Hoten, Manchukuo	1000				
900	KZIB	Manila, P. I.	1000				

(TO BE CONCLUDED) SYMBOLS- * Under Construction; E- English ann'c'mts.

CONSTRUCTING AN 86 FOOT ANTENNA MAST
 -E. H. Manning, 12040-65th St., Edmonton, Alta, Canada-



The main uprights of the mast are composed of 18 foot 2x2's. They are called 2X2's, but they are only $1\frac{3}{4} \times 1\frac{3}{4}$ ". The mast is 4' square at the bottom and 7" on top. The uprights forming the base of the mast are set four feet in the ground and should be set in concrete if possible. Plastering laths are used for the cross pieces. They were planed on all four sides. The horizontal $2\frac{3}{4} \times \frac{3}{4}$ " cross pieces were made from $6 \times \frac{3}{4}$ " boards ripped in half. Twelve strand steel cable about $\frac{1}{4}$ " thick was used for guy wires. About 500' of guy was required for each mast. The guy wires are anchored with strong strain insulators. The mast can be climbed should anything happen. The mast weighs about 500 pounds and requires several men to erect it. The masts are very strong, and will support several experimental antennas. If the masts are painted in contrasting color stripes it protects the wood, adds to the attractiveness and serves as a warning to low-flying airplanes. For any further questions on building or erecting these handsome aerial masts, write to Mr. E. H. Manning, at the above address. These aerial masts are also ideal for transmitting antennas.

SAVE UP TO 50% at Factory Prices!

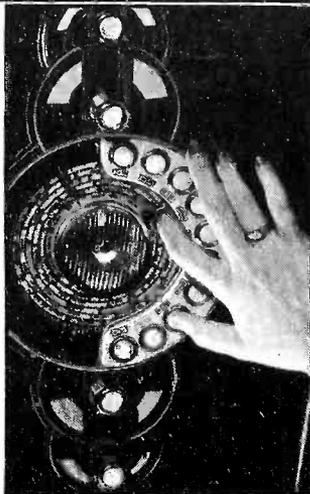
**You'll Be Excited over MIDWEST'S
DIAL-A-TAIL Tuning and Exclusive ELECTRIC SAVER!**

Your radio enjoyment is doubled with Dial-A-Matic Tuning, the amazing new Midwest feature that makes this radio practically tune itself. Now, even a child can bring in ten perfectly tuned programs in ten seconds! It's a big thrill to wheel the dial . . . and then hear the station you want . . . come in instantly, automatically, perfectly. Zip-zip-zip . . . the programs roll in perfectly tuned . . . as fast as you can press buttons! This new Midwest feature will perform new miracles of radio for you.

**New 1937
AIR-TESTED
5-BAND**

**6-Tube MIDWEST
Radio**

**9 to 2200
METERS**



30 Days FREE Trial!

Send for big FREE 40-page 1937 Midwest catalog—before you buy any radio—and see for yourself why scores of thousands of radio purchasers have saved up to 50% by ordering the Midwest factory-to-you way since 1920. Learn why Midwest radios are preferred by

**Only
\$40.95**

Once again, Midwest demonstrates its leadership by offering this amazingly beautiful, bigger, better, more powerful, 16-tube, 5-band world-wide radio—a startling achievement that makes the whole world your radio playground. Out-performs \$150 radios on point-to-point comparison. Powerful Triple-Twin Tubes (two tubes in one) give 20-tube results.

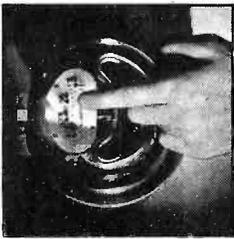
BECOME YOUR OWN RADIO DEALER

Save the jobber's-retailer's profits that often amount to 50% of ordinary retail prices. Become your own radio dealer and buy at wholesale prices direct from the Midwest factory. Never before so much radio for so little money! Why pay more?

This super deluxe Midwest radio is so amazingly selective, so delicately sensitive, that it brings in distant foreign stations with full loud speaker volume on channels adjacent to powerful locals. You'll thrill

over its marvelous super-performance . . . glorious crystal-clear "concert realism," . . . and magnificent world-wide foreign reception. Scores of marvelous Midwest features, many of them exclusive, make it easy to parade the nations of the world before you. You can switch instantly from American programs . . . to Canadian, police, amateur, commercial, airplane and ship broadcasts . . . to the finest, most fascinating world-wide foreign programs.

fore you buy any radio, send our big FREE 40-page 1937 catalog—and take advantage of Midwest's sensational factory-to-you values. You have a year to pay and terms are as low as 10c per day—and you secure the privilege of 30 days' FREE trial in your own home. In addition you are triply protected with Foreign Reception Guarantee, Full-Year Warranty and Money-Back Guarantee.



ELEKTRIK-SAVER
This exclusive Midwest feature cuts radio wattage consumption 50% results in Midwest radios using no more current than ordinary 7-tube sets . . . enables them to operate on voltages as low as 80 volts.



NO SET THAT I HAVE EVER OWNED HAS BROUGHT IN FOREIGN RECEPTION SO CONSISTENTLY AND SATISFACTORILY.
Gloria Stuart



MY MIDWEST NOT ONLY MEETS BUT SURPASSES MY MOST CRITICAL STANDARDS.
Bing Crosby

MIDWEST RADIO CORP.
DEPT. E-163
Established 1920

QUALITY RADIO SINCE 1920

CINCINNATI, OHIO, U.S.A.
Cable Address MIRAGO... All Codes



THE GREAT SONIC SPEAKER
(LARGE TUBES)

TERMS
AS LOW AS
\$5.00
DOWN

Only MIDWEST Gives You

16 TUBES • 5 WAVE BANDS
9 to 2200 METERS • ELEKTRIK SAVER

- DIAL-A-MATIC TUNING •
- AUTOMATIC AERIAL ADAPTION •
- DUAL AUDIO PROGRAM EXPANDER**



MAIL COUPON TODAY for
Free 30-DAY TRIAL OFFER
and 40-PAGE FOUR-COLOR Free CATALOG

MIDWEST RADIO CORPORATION
Dept. E-163 Cincinnati, Ohio

Special offer and prices prevail only when buying direct with factory by mail.

Without obligation on my part, send me your new FREE catalog and complete details of your liberal 30-day FREE trial offer. This is NOT an order.

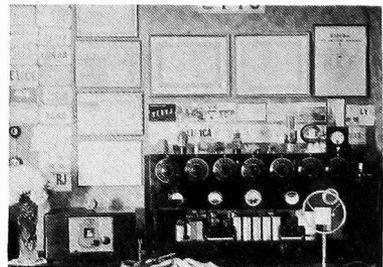
Name..... State.....

Address.....

Town.....

12 Short-Wave News

NOV. 14, SAT. 11:30-12M 9.12mc -2 CP6
 NOV. 21, SAT. 7:30-11pm 8.40mc -2 HC2CW
 DEC. 21, MON. 6:30-7:30pm 9.63mc -1 2R03
 DEC. 24, THUR 6:30-7:30am -1 W2XAD/W2XAF
 Note: 1-IDA; 2-NNRC. (E.S.T.)



AMATEUR STATION LY1J
 KAUNAS, LITHUANIA

Report to us stations that do not verify and stations that are negligent in verifying as we intend to mark such stations in our list hereafter.

Watch the Dec. G. C. for start of our monthly big five mystery dx contest and also S. W. reporters competition.

PLEASE report any important bit of short-wave news at once. Regular monthly S. W. reports should be in this office by the 17th. Write on one side of page only, double space lines, divide items into continents, always state time used. Items in order of relative importance are: new stations; frequency or schedule changes; identifying signals and addresses; commercial schedule tips; station photos and unusual receptions. Number of stars denotes importance of item. Four stars is highest rating given. How many four-star (****) items can you turn in?

(E.S.T.) NORTH AMERICA-CENTRAL AMERICA (Megacycles used)

CANADA C.R.C. plans a 5kW xmtr. for Lulu Island this fall (**Graham) Revised sked for CFCX-6.005, Montreal, is 7:45am-1am, Sundays 9am-11:15 pm (* Graham) * Revised sked for CRCX-6.09, Bowmanville, is daily 5-11 pm (Graham) * VE9HX (does not announce CHNX), Halifax, N.S. now on 6.134 (Oxrieder) * CRCX-6.09, relays Daventry 6:30-7pm (Laul)

C.R. Corrected frequency: TIEP-6.682, San Jose (Oxrieder) * TIOW, (formerly TI6OW) Port Limon, 6.5mc, power 400w, operates weekdays 10-11:30am, Sunday 2-3pm. Slogan is "Ondas del Caribe" (Graham) ** TIRCC San Jose, to broadcast on 13.lmc, from 6-7pm soon (CSWRC) * TI1NRH, Heredia, gradually drifting to higher frequency, is on 9.698mc at present (Oxrieder) ** TI8WS-7.55, "Ecos del Pacifico", Puntarenas, operates weekdays 5-7 and 8:30-10pm, Sundays 4-5pm. Address; "Sen. Abel Salazar F., Radioemisora TI8WS, Apartado 75, Puntarenas". Sends beautiful photo graphic QSL (W.R.) * Hams reported: TI2AF (14.042) and TI2DC (14.12).

CUBA COCB-6.13, Havana, relays CMCD, weekdays noon-1am, Sundays 10am to 1pm and 8-10pm (Gozen, NZSWC) ** NEW-COCE-8.82 (also reported on 12.25mc), La Corona, Havana. Identification; chimes and railway whistle Relays CMCE irreg. 11pm-1am (W.R.) * COCO-6.01, Havana, often heard up to 11:30pm or 12mid (L. Miller) * COCQ-9.746, owned by M. Gabriel, Calle 25, No. 445, Havana, has 4kW RCA xmtr (Sholin, Deibe) * COCX-11.435, La Voz del Radio Philco, P.O. Box 32, Havana, 3kW, relays CMX, weekdays 8am-1am, Sundays 8am-noon and 6-9pm. Owner, Francisco A. Lavin (Lavin, Deibe, Will L. Miller, Graham, Frost, Gozen) * COKG, P.O. Box 381, Santiago, now on 6.202 (Oxrieder) * CO9JQ, 8.665, Camaguey, operates 5:30-6:30pm irreg (NZSWC) New hams reported; CO8MN (14.08) and CO8VZ (14.03)

D.R. HI3C-6.73, La Voz de la Feria, La Romana, 50w, operates from 12:10-1:40pm and 6:10-7:40pm (* Gozen) * HI5N, Santiago, works on approximately 6.15mc, 6-7am, noon-2pm, 6-9:30pm (Oxrieder) * HI5X, Trujillo, reported on 6.34mc.. Corrected frequency; HI8A, Trujillo-6.45mc (Oxrieder) * HI8Q, Emisora Carta Real, La Voz de los Muchachos, Trujillo, is now on 6.2mc. Works in chain with HIT occasionally (Gozen, Oxrieder)

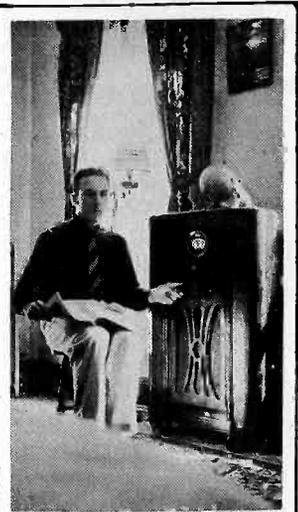
HAITI HH3NW, Port-au-Prince, now on 6.346, operates simultaneously with HH3W, from 1-2pm and 6 or 7-8:30pm (Oxrieder, Graham)

HAWAII "Hawaii Cells" program, Tuesdays 12:30-1am, now over KKH, 7.52, and KIO, 11.63 (Andrews) * New 150 watt, 35.2mc, apex station will be erected by Mutual Telephone Co. at Hilo (FCC) * New ham-K6NTV-14.185, Maui Island, heard near 12:30am (Sholin)

HONDURAS New sked of HRP1-6.357, San Pedro, is noon-2pm and 7:45-10pm.

MEXICO XBA-6.98, Tacubaya, broadcasts the news at 7pm (Graham) * XEDQ-9.52, Guadalajara, relays XED (NNRC) * XEFT, Vera Cruz, relays XETF on 9.505mc, at present (Tune In) * XEXA-6.171, Mexico, D.F., relays XEXM, on weekdays from 8-10am, 3-5 and 7-11pm (W.R.) ** NEW, XEXE-6.2, Board of

to Monarch, Wyoming, for winter (Jas. Woodhead).. My 18-tube Midwest came on July 9. What power! and what a tone- realism! (Abderhalden-Amboina, Moluccas).. Have just returned home after five weeks in Canada and a visit to W2XAF and New York City on way back (Violet Allwood, Jamaica) .. Took on an OL on Sept. 5 and then a honeymoon trip into Oklahoma and Arkansas, stopping at the Texas Centennial on way back (R. DeMent, Plainview, Texas).. Have ordered a new Scott and in meantime, am building two 125' aerial towers. (Criswell, Arizona).. Have 300 stations logged, 40 BC and 15 SW from U.S. alone, among them KOMA WLAC and WCKY. Have 15 Javanese logged. Have Hong Kong, Japan, Siam and India on SW. (Mrs. Roche, S. Africa).. Anticipation of a general rise in temperature and often a high barometer seems to have a salubrious effect on reception (Campbell Penna).. Here are the first 50 VK phones I have logged on 20m: VK2QR, 2XU, 2N0, 2AS, 2UC, 2OC, 2BQ, 2EP, 2AP, 2HS, 2UN, 2BK, 2MH, 2AZ, 2TC, 2NY, 2JA, 2LO, 2FB 2IQ, 2DW, 2ABD, 2BG, 2JU, 2ABA, 2HL, 2HF, 2TI, 2RJ, 3KX, 3KC, 3XA, 3AC, 3AX, 3OC, 3ZZ, 3JT, 4JU, 4JX, 4BS, 4DB, 5ZX 5SU, 5WJ, 5JB, 5WG, 5JC, 5AI, 6MW, 7JB (DeMyer, Mich.) .. Would like to exchange SWL cards with any members (W. Ansell, 168 Wascana St. North, Regina, Sask., Canada)

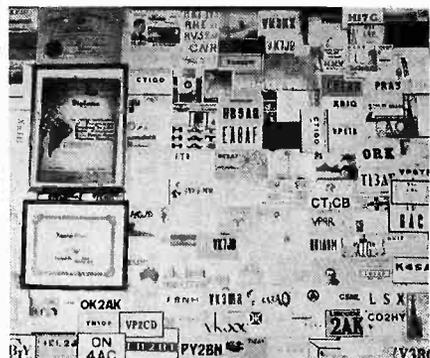


James Dunysk,
Phoenixville, Penna.,
at his receiver.

IDA STAMP GUILD: We want the name of every member, who wishes to be registered in the IDA Stamp Guild at once, as we hope to announce the appointment of ISG officers in January G. C. and to start the stamp bulletin shortly after. The latest stamp enthusiasts to pledge their support are: A. E. A. Thomas, Cullsdan Rd., St. Michael No. 16, Barbados, BWI; J. L. Sullivan, Alpha St, Cambridge, N. Z.; Fred Cox, 1106 King's Rd., Victoria, BC, Canada; Russell Graham, 1005 Allard Ave, Apt. 2, Verdun, P. Q., Canada; A. L. Hynes Clarendville, Newfoundland; H. Mandler, 3145 Brighton 4th St., Brooklyn, NY; Cyrus Will, 651 Brier St, Kenilworth, Ill; B. A. Meserve, 564 Westbrook St, South Portland, Maine; M. Gaillard, 59 rue du Verger, Chatellerault (Vienne), France; Chas. Guilbert, 35 rue de l'Ecluse, Deauville, (Calvados), France; A. T. Yamamoto, 5116-5118, Oimachi, Shinagawa-Ku, Tokio, Japan; Aziz Cassis, c/o Mixed Court, Mansoura, Egypt.



Murray Bultekant
Black Sheep of Beta Club
Brooklyn, New York



Exceptional Veri' Collection-
Raymond C. Messer,
South Portland, Maine.



DX Corner of,
Thaddeus L. Grabek,
Niagara Falls, New York

CHINA-JAPAN BROADCASTING STATIONS

(Stations having over 50 watts)

Compiled by G.M.Cornfield of Hong Kong and corrected to October, 1936.

KC/S	CALL	LOCATION	WATTS	KC/S	CALL	LOCATION	WATTS
560	XGOG	Chengtu, Szechwan	10000	890	JOJG	Tottori, Japan	500
560	XLHB	Canton Rd, Shanghai	45	900	XGOI	Shanghai, China	500
560	MTCY	Shinkyu, Manchuokuo	100000	910	JOJK	Fukuoka, Japan	500
580	JFCK	Taichu, Taiwan	1000	910	XLIM	Amoy, China	50
580	XQHA	Love Lane, Shanghai	250	920	JOJK	Niigata, Japan	500
590	JOAK1	Tokyo, Japan	*150000	920	XHHX	Rt, Kalo, Shanghai	100
590	XHKB	Chungshan, Tsingtao	100	930	JOAG	Nagasaki, Japan	500
590	XGOH	Changsha, Hunan	100	940	JOBK2	Osaka, Japan	10000
600	JONG	Miyazaki, Japan	500	940	XHHE	Shanghai, China	100
600	XMHA	Shanghai	E- 500	950	JOJK	Nagano, Japan	500
610	JOJK	Kanazawa, Japan	3000	950	XGOP	Peiping, China	300
618 ¹ / ₂	KZRM	Manila, P. I.	50000	960	XHHF	Hupeh Rd, Shanghai	100
620	XHHK	Peking Rd, Shanghai	100	970	JOJK2	Keijo, Chosen	10000
630	JOJK	Okeyama, Japan	500	970	XHIB	Wusih, China	75
640	JODG	Hamamatsu, Japan	500	980	JOJK	Tokushima, Japan	500
640	ZEK	Hong Kong, China	500	980	XMHB	Hart Rd, Shanghai	500
640	XLHG	Shanghai, China	100	990	JOCK2	Nagoya, Japan	10000
650	JOJK	Akita, Japan	300	990	XGOD	Hangchow, China	2000
660	XGOA	Nanking, China	E-75000	1000	JOBG	Maebashi, Japan	500
670	JOJK	Matsue, Japan	500	1000	XGOT	Taiyuen, Shensi	50
674	MTFY	Harbin, Manchuokuo	3000	1010	XGOW	Hankow, China	5000
680	JOVK	Hakodate, Japan	500	1020	JOFG	Fukuji, Japan	300
690	JOBK1	Osaka, Japan	10000	1020	XHHG	Thibet Rd, Shanghai	100
697	XGOY	Kwenming, Yunnan	250	1030	JBAK	Fusan, Chosen	150
700	JOCG	Asehigawa, Japan	300	1030	XGOL	Foochow, China	1000
700	XMHC	Ave. Rd, Shanghai	E- 500	1040	JOJG	Yamagata, Japan	500
710	JOJK2	Keijo, Chosen	*50000	1050	XHKA	Tientsin, China	1000
711	XGOS	Chungking, Szechwan	1000	1050	XJHG	Kagoshima, Japan	500
720	JOJK	Kochi, Japan	500	1060	XHHI	Nanking Rd, Shanghai	100
720	XLHC	Peking Rd, Shanghai	50	1060	JOJG	Toyama, Japan	500
720	XHHB	Ave. Foch, Shanghai	50	1070	XGOX	Kaifeng, Honan	200
720	JFBK	Tainan, Taiwan	1000	1070	JOJK	Kyoto, Japan	300
730	JOCK1	Nagoya, Japan	10000	1070	XKRI	Canton, China	100
740	JOJK	Kokura, Japan	1000	1080	JOJK	Obihiro, Japan	500
750	JFAK	Taihoku, Taiwan	10000	1090*	JBBK1	Keijo, Chosen	500
750	XQKB	Tientsin, China	150	1100	XHHS	Kiangse Rd, Shanghai	100
750	XGOK	Canton, China	1000	1120	XLHM	Shanghai, China	50
760	JQAK	Deiren, Manchuokuo	500	1120	XLJN	Shanghai, China	200
770	JOJK	Sandai, Japan	10000	1130	XGOC	Nanchang, Kiangsi	250
770	XHID	Ningpo, China	75	1140	XHHL	Thibet Rd, Shanghai	100
780	JOJK	Shizuoka, Japan	500	1150	XGOZ	Chinking, China	1000
780	KZEG	Manila, P. I.	1000	1160	XHMU	Nanking Rd, Shanghai	100
780	XLHA	Nanking Rd, Shanghai	50	1170	XLIF	Wusih, China	100
790	JOJK	Kumamoto, Japan	10000	1180	XHHZ	Canton Rd, Shanghai	150
790	XLIJ	Wusih, China	75	1200	XHHN	Shanghai, China	100
800	XLHL	Republic Rd, Shanghai	1000	1210	XHKC	Tsingtao, China	100
800	JOJK	Kofu, Japan	500	1220	XQHG	Shanghai, China	250
810	JOJK	Sapporo, Japan	10000	1230	XLIR	Hangchow, China	50
810	XQKC	Tientsin, China	200	1240	XHHY	Thibet Rd, Shanghai	100
820	JBBK2	Keijo, Chosen	500	1250	XLIE	Wusih, China	50
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840	ZBW	Hong Kong, China	2000	1290	XGOB	Si-An, Shensi, China	500
840	XMHD	Museum Rd, Shanghai	1000	1300	XQHC	Shanghai, China	E- 500
850	XLIQ	Hangchow, China	50	1300	XGOE	Nanning, Kwangsi	1000
852	XGOF	Tsinan, China	500	1310	XLIF	Soochow, China	50
860	XHHD	Sinza Rd, Shanghai	50	1330	XLIK	Changchow, China	75
870	JOAK2	Tokyo, Japan	*150000	1340	XHHR	Carter Rd, Shanghai	50
870	XHIC	Soochow, China	75	1350	XQKA	Tientsin, China	E- 150
880	XHVV	Ave. Foch, Shanghai	100	1360	XQHD	Ningpo Rd, Shanghai	200
890	MTBY	Hoten, Manchuokuo	1000	1370	XLHF	Shanghai, China	50
900	KZIE	Manila, P. I.	1000	(TO BE CONCLUDED) SYMBOLS- * Under Construction; E- English ann'nts.			

Health, Mexico D.F., heard asking for reports at 4:50am (DeMent) ** NEW XEXQ, heard on about 15.35mc, as late at 10:15pm (Walmsley) * XEWI-11.9, Mi Voz al Mundo desde Mejico, P.O. Box 2874, Mexico D.F., power 250w transmits Mondays 3-4pm Esperanto; Tues 7:30-8:45pm Spanish, 10:30-mid. Spanish and English; Wed 3-4pm French; Thur 7:30-8:45pm English, 10pm-mid. Spanish and English; Fri 3-4pm German and English, 9pm-mid. Spanish; Sun 1-2:15pm Spanish and English. Tues and Thur 11:15-11:45pm dedicated to the U.S. (Deibe) * Hams reported: XE3X (1h) and XE3AG (1h.07) XE1BT and XE2HF issue unusually attractive QSL cards.

NICARAGUA YNLF-9.66, 206 Calle 15 de Septiembre, Managua, 1kW, operates from 2-3 and 8-11pm (Graham, Diebe) * YNVA, Managua, drifts from about 8.55 to 8.575mc (Oxrieder, Gozen)

PANAMA HP5B-6.03, Panama City, revised sked is 8-10:45pm (L. Miller) ** NEW-HP5L-11.74, "Asiul Airam", at David, Chiriqui, Panama, will be on the air soon (Graham) * Lt. G. Williams, of HP5J-9.605, Panama City, puts on the only English news period in C.A. or S.A. at 6:40pm EST, daily. A prize contest is being run at present in connection with this newscast. HP5J now takes the air at 11:10am (NNRC-Graham, Andrews)

U.S.A. WNC, Hialeah, Fla, will soon operate on additional frequency of 9.355mc (FCC) * Sked of WLXAL, Boston, Mass: on 6.04mc, Mon and Fri 7-9 pm, Sun 5-7pm; on 11.79mc, weekdays 5:50pm and Sat 5-7pm (WLXAL) * W2XGB, 17.31, Hicksville, N.Y. testing 8am-4pm irreg (WR) * W3XAU-9.59, Philadelphia, Pa., back on the air again with new 10KW xmtr (Graham) * W8XAL, Cincinnati, Ohio, authorized to use additional freq. of 9.59mc. Comes on the air weekdays at 6:30am, Sun at 8am (Graham, FCC) * W9XAA, Chicago, not on 11.83mc freq. at present (Graham)

SOUTH AMERICA

ARGENTINA Amateurs reported: LU3EV 14.08, LU6KE 14.075, LU4BH 14.29.-

BRAZIL Amateurs reported: PY2IQ 14.33, and PY8AD 14.28. (LU9PA 14.12

CHILE CEB-10.23, Antofagasta, rebroadcasts CEC-10.67, Santiago, weekdays except Saturday (Graham, Oxrieder) * Revised sked of CB960-9.60, Santiago, is 10:30am-noon and 6-8:30pm (Graham) * Revised sked of CB-615-6.16, Santiago, is 4-7pm (Graham) * Amateurs reported: CE1BC 14.05 and CE3DW 14.09 and 14.12, heard near 8:30pm.

COLOMBIA HKV-8.795, Bogota, occasionally transmits news to Colombian consulates at 7-7:30pm (* Graham) * HJN-5.95, Bogota, operates from 11-2pm and 5-10:30pm. Signs with "Sweet Mystery of Life" (Graham) * HJU, Bogota, back on the air again is operating on 9.498mc (Oxrieder) * HJ1ABG, Emisora Atlantico, drifts between 6.037 and 6.043 (Oxrieder) ** HJ1ABP-9.616, Cartagena, transmits early mornings from about 7 to 8:30a (Messer) * HJ3ABD-6.05, Bogota, has been signing off at midnight (L. Miller) * HJ3ABF, La Voz de Bogota, Bogota, is on new frequency of 6.069mc (Oxrieder, Stark) * HJ4ABD, La Voz de Catia, Medellin, transmitting near 6.138mc at present. This station shifts frequency often (Oxrieder) ** NEW, HJ4ABH-9.525, Armenia, Caldas, Colombia, is transmitting irregularly (Oxrieder, Graham) * HJ5ABD, La Voz del Valle, Cali, heard with a special program on 9.54mc and signing off at 9:20pm (Graham) * Amateurs reported: HK5BC 14.01, HK3HS 14.02, HK3JA 14.08, 14.12, HK1Z 14.085, HK50BC 14.085, HK4EC 14.095, HK3RC 14.285. Heard between 8 and mid.

ECUADOR The South American Andes Expedition heard on 9mc near 12:15a (NZSWC) * E.S.T. has been officially adopted in Ecuador (CSWRC) * PRAD0, Riobamba, heard on 15.44 from 8-10pm daily (Balbi) * HCJB-8.948, Quito, will have new 1kW xmtr. in operation by first of year (Graham) * HC2JSB, Guayaquil, is transmitting on 7.854mc at present (Oxrieder) * HC2CW, Guayaquil, very unstable at present, being heard from 8.2 to 8.29 mc. Sked is Daily ex. Sat and Sun 11:30am-12:30pm and daily ex. Sunday 7:30-11pm (Oxrieder, Roberts)

PERU OAX4G, Lima, has moved to approximately 6.26mc (* Oxrieder) * Amateur OAH4K-14.265, often heard in evenings.

VENEZUELA NEW-YV1RG-6.39, "Emisora Philco, P. O. Box 261, Maracaibo", inaugurated on Sept. 25, relays YV1RH from 8:30-11pm daily. One stroke on a Gong before announcements. Blare of music before call letters, which are given in Spanish (***) Britting, Balbi, Laul, Gozen, L. Miller, Nelson, Stark, Graham, Oxrieder) ** NEW-YV1RV-6.35, "Radio Valera", Valera, operates from approximately 8-9:30pm (Oxrieder, CSWRC) * YV11RB, Bolivar City, 6.545, 30w, operates daily from 7-10pm (Tune In) * YV-5RMO-5.85, "Ecos del Zulia", operates daily 10:45am-12:45pm, weekdays 4:45-9:45pm and Tues, Thurs and Sat 8:45-9:45am (Suarez-YV5RMO)

EUROPE

CZECHO-SLOVAKIA OLR, Radio Podedbrady, formerly using frequencies 15.23 and 11.76mc, is now operating on 15.32mc from 11am to 1 or 2pm and on 11.875mc from 2:30-4:35pm. Special programs for United States on Mon and Thur 7-9pm on 11.875mc (** Hutchinson, Hock, Peters, L. Miller, Guilbert, Frost, Balbi, C. Miller, Oxrieder, Morrison)

ENGLAND Alexandria Palace television transmissions daily at 6-7 and 10-11am (* Stansfield) * See S.W. List for many changes in Daventry schedules * Amateurs reported: G5ML 14.085, G6AG 14.1, G5ZJ 14.25 and 14.29, G2YZ 14.32, G5YY 14.335 and G6DH 14.35. Best from 6-9pm.

FRANCE Amateurs reported: F8VP 13.98, F8DW 13.99 and F3JD 14.11.

GERMANY Experimental transmissions heard: DFB-17.52, Nauen, at 6am.. DJO-11.79, Zeesen, sending programs to U.S. at 2:30 and 4pm. DGH-10.44, Nauen, calling and phoning Cairo at 2am (* C. Miller, Balbi, Sholin, CAM) * See S.W. List for important changes in Zeesen schedules.

HOLLAND PCJ-9.59, Eindhoven sked is: Sun 2-3pm and Tues 1-3pm to So. Africa and Wed 7-10pm and Sun 7-8pm to N.A. (* A.R.A.) * Amateurs reported: PAoEQ 14.035, 14.05, 14.065; PAoMQ 14.055 and PAoWY 14.05, 14.26 I.F.S. New amateur EI9G 14.122 heard (Roberts)

ITALY "American Hour" programs, Mon, Wed and Fri 6-7:30pm, now being transmitted over 2RQ3-9.635mc. Starting Nov. 15, all programs after 12:40pm will be broadcast on 9.635mc (* Moraldi) * IRS-9.966, Rome heard testing with music at 4-4:30pm (Frost)

LITHUANIA Amateur LY1J-14mc, owned by Petr. Jastrzembkas of Hipodromo 14, Kaunas-Sanciai. LY1J with input power of 100w has WAC in seven hrs and 40 minutes. Heard best in U.S. on phone April or May 11pm-2am, or June and July from 10pm-1am. Beautiful blue-white QSL card pictures the Lithuanian Liberty Monument in Kaunas (** Morrison)

NORWAY New 25kw xmtr. at Jeloy, near Oslo, is authorized to operate as LKL on 6.13, LCL on 6.99, LKC on 9.53, LKJ on 9.54, LKE on 9.572 and LKU on 11.87mc. LKU heard testing from 11am-2pm (** CSWRC)

POLAND Interval signal of chiming bells heard at 11:15am, preceding Mon, Wed and Fri 11:30-12:30pm broadcast of SPW-13.63 (* CSWRC)

PORTUGAL CSW, Emisora Nacional, Lisbon, (C-Canada, S-Sydney, W-Washington) 5kw, is broadcasting from 4 to 6 or 7pm daily. Frequency has varied considerably but seems to be using close to announced frequency of 9.93mc at present. A lady announcer gives call in Spanish and English (** Hyde, Deibe, Messer, Stark, Hutchinson, Oxrieder, Denzler, DeMyer, Gozen) * CT1AA, Lisbon, broadcasts on 11.828, on Saturdays irreg. (Oxrieder)

SPAIN NEW-ECF2-7.118, owned by P.O.W.M., Plaza del Teatro, 2, Barcelona, broadcasts news in Spanish, French, German, Russian, Italian, Catalan and English daily from 1-3:20pm; Tues, Thur and Sat 3:20-4pm in Dutch and Esperanto; Mon, Wed and Fri 3:20-3:40pm in Portuguese. Daily at 2:40-3pm in English (***) ** Other Spanish stations reported: -EAJ5?-6.57mc (Oxrieder); Radio Nacional, EALCMT-7.45-Madrid at 11pm; EAL-J-7.4mc, with war news in Spanish and English at 8-8:45pm (Gozen); ECEL-7.23, Madrid (Graham) This station believed to be UGT by Oxrieder.

SWEDEN SM5SX-11.705, operated by K.T. Stordal of Royal Technical Univ Stockholm, 500w, operates weekdays 6:25-7am and 11am-5pm, Sundays 4am to 5pm. Swedish news bulletins at 6:30am, 1:15 and 3:45pm (* SM5SX) * Amateur SM5SD-7.281, Stockholm, heard Sat 7-8am (All-Wave Radio)

SWITZERLAND HBO, HBH and HBL testing with VK3LR 1-2am irreg (Britting)

U.S.S.R. Revised schedules: RAN-9.6, Moscow 7-7:30pm; RNE-12, Moscow Sun and Wed 6-7am, Sun 10-11am, Sun, Mon, Wed and Fri 4-5pm in English; RV96-15.09, Moscow, Sun 1:30-2pm (* Deibe, Graham, Inna Marr) * New listeners reporting on USSR programs to Radio Center will receive gifts and souvenirs * RNE-12, still calls RIO-10.17 at midnight (GCDXC)

AFRICA

BEL. CONGO OPL-20.04, Leopoldville, calls ORG Sundays at 7:30am. Either a man or woman may be heard repeatedly calling "Monsieur Alfred" (Rossi)

CANARIAS EHZ-10.37, El Tablero, 4kw, relays war news in Spanish, German, French, English and Portuguese from EAJ 4.3, at 2-4pm and from approximately 6 to 8pm. Usually starts with music (** Caulfield, Guilbert, C. Miller, DeMyer, Oxrieder, W.R.) Send reports to Radio Club de Tenerife Alvarez de Lugo 1, Santa Cruz de Tenerife. * EARAB-7.01, opening and closing programs with "Lady of Spain", operate Mon, Wed, Fri 3:15-4:15pm -Announcements in English on Saturdays (AWR)

EGYPT SUZ-13.81, Cairo, works GBB-13.595, at 11am-noon * SULCH 14.28,

Health, Mexico D.F., heard asking for reports at 4:50am (DeMent) ** NEW XEXO, heard on about 15.35mc, as late at 10:15pm (Walmsley) * XEWI-11.9, Mi Voz al Mundo desde Mexico, P.O. Box 2874, Mexico D.F., power 250w transmits Mondays 3-4pm Esperanto; Tues 7:30-8:45pm Spanish, 10:30-mid. Spanish and English; Wed 3-4pm French; Thur 7:30-8:45pm English, 10pm-mid. Spanish and English; Fri 3-4pm German and English, 9pm-mid. Spanish; Sun 1-2:15pm Spanish and English. Tues and Thur 11:15-11:45pm dedicated to the U.S. (Deibe) * Hams reported: XEXX (1h) and XE3AG (1h.07) XE1BT and XE2HF issue unusually attractive QSL cards.

NICARAGUA YNLF-9.66, 206 Calle 15 de Septiembre, Managua, 1kW, operates from 2-3 and 8-11pm (Graham, Diebe) * YNVA, Managua, drifts from about 8.55 to 8.575mc (Oxrieder, Gozen)

PANAMA HP5B-6.03, Panama City, revised sked is 8-10:45pm (L. Miller) ** NEW-HP5L-11.74, "Asiul Airam", at David, Chiriqui, Panama, will be on the air soon (Graham) * Lt. G. Williams, of HP5J-9.605, Panama City, puts on the only English news period in C.A. or S.A. at 6:40pm EST, daily. A prize contest is being run at present in connection with this news-cast. HP5J now takes the air at 11:10am (NNRC-Graham, Andrews)

U.S.A. WNC, Hialeah, Fla, will soon operate on additional frequency of 9.355mc (PCC) * Sked of WLXAL, Boston, Mass: on 6.04mc, Mon and Fri 7-9pm, Sun 5-7pm; on 11.79mc, weekdays 5:50pm and Sat 5-7pm (WLXAL) * W2XGB, 17.31, Hicksville, N.Y. testing 8am-4pm irreg (WR) * W3XAU-9.59, Philadelphia, Pa., back on the air again with new 10kW xmttr (Graham) * WRXAL, Cincinnati, Ohio, authorized to use additional freq. of 9.59mc. Comes on the air weekdays at 6:30am, Sun at 8am (Graham, P.C.) * W9XAA, Chicago, not on 11.83mc freq. at present (Graham)

SOUTH AMERICA

ARGENTINA Amateurs reported: LU3EV 14.08, LU6KE 14.075, LU4BH 14.29.-

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CHILE CEB-10.23, Antofagasta, rebroadcasts CEC-10.67, Santiago, weekdays except Saturday (Graham, Oxrieder) * Revised sked of CB960-9.60, Santiago, is 10:30am-noon and 6-8:30pm (Graham) * Revised sked of CB-615-6.16, Santiago, is 4-7pm (Graham) * Amateurs reported: CE1BC 14.05 and CE3DW 14.09 and 14.12, heard near 8:30pm.

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AFRICA

BEL. CONGO OPL-20.04, Leopoldville, calls ORG Sundays at 7:30am. Either a man or woman may be heard repeatedly calling "Monsieur Alfred" (Rossi)

CANARIAS EHZ-10.37, El Tablero, 4kW, relays war news in Spanish, German, French, English and Portuguese from EALJ 13, at 2-4pm and from approximately 6 to 8pm. Usually starts with music (** Caulfield, Guilbert, C. Miller, DeMyer, Oxrieder, W.R.) Send reports to Radio Club de Tenerife Alvarez de Lugo 1, Santa Cruz de Tenerife. * EAPAB-7.01, opening and closing programs with "Lady of Spain", operate Mon, Wed, Fri 3:15-4:15pm -Announcements in English on Saturdays (AWR)

EGYPT SUZ-13.81, Cairo, works GBB-13.595, at 11am-noon * SULCH 14.28,

Cairo, has received 7000 SWL reports. Most of them are unanswered.
ETHIOPIA IUC-11.955, Addis Abeba, contacts Rome at 11pm-1am (**Miller)
KENYA VU7LO-6.083, Nairobi, operates Mon, Fri 11:30am-2:30pm and Sat
and Sun 11am-3pm. Closes with "God Save the King" (Egyptian Radio **)
MOZAMBIQUE CR7AA-6.137, Lourenco Marques, operates weekdays 12:45-3pm
and Sundays 5:30-7am and 10am-12:30pm (** African Radio Announcer)
S. AFRICA ZTU-Johannesburg, 6.097mc, heard 12:05-12:40am (Michaelson **)
S. MOROCCO EA9AH (6.97 or 7.03), Radio Tetuan, transmits news in Spanish
from approx. 3:15-4:15pm. Lady announces in English (** W.R.)

ASIA-AUSTRALIA

AUSTRALIA Melbourne station on 12.05mc, heard on Sunday at 4:30am (ARA)
* Speech or music is prohibited from amateur stations in W. Australia
after 4am (The Broadcaster) * VK3LR-9.59, Melbourne, transmits English
news at 7:30am (DeMent) ** VK5DI-14.005, Adelaide, operates on Sat from
10:15pm to 1:45am Sunday. Station owned by Adelaide Short-Wave Club.

Ceylon Radio Colombo-6.06mc, heard between 6:30-7:45am (NZDXRA)

CHINA XGW-10.42, Shanghai, contacts KWX 7.61 near 9:30am (** Sholin)
* XQJ-15.785, Shanghai, works GBA, Rugby, Fridays at 6-7am (Stark)

FIJI'S Reports on VPD2-9.5L, Suva, should be addressed to Amalgamated
Wireless (Australasia) Limited, 47 York St, Sydney, Australia (A.W.A.)

F. INDO-CHINA F3LCD, Radio Philco, P.O. Box 295, Saigon (Reported on 11.7,
11.73 and 11.76), is on the air until 9:30am at which time
it signs off with a band march. Announcements in French and English
(*** Sholin, Castillo, Andrews)

HONG KONG NEW-ZBW, "Hong Kong Calling", Hong Kong, began broadcasting on
9.525mc simultaneously with ZBW on 8.75, September 25. On October 12,
ZBW moved to 15.19mc. English programs Sun, Tues, Wed, Fri and Sat 6-10
am, with re-broadcast of Daventry news at 8am. Men and woman announc-
ers give call in English. All-Chinese programs Mon and Thur 8-10am.
Signal strength is very good. Address Hong Kong Broadcasting Commit-
tee, Box 200, Hong Kong (** Sholin, C. Miller, Morrison, Oxrieder, Roberts
Deibe, Nelson, Murphy, Britting, DeMyer, DeMent, Balbi, Underwood)

JAPAN The CSWRC reports "The Overseas Hour", Mon and Thur 4-5pm is
broadcast by JVN 10.66, JZK 15.96 and either JZI 9.535 or JVH 14.6...
The "Overseas Hour", 12mid-1am is still being broadcast by JVH 14.6mc.
Morning programs 4-7:40am are on JVN 10.66. JVH is on with music and
setting-up exercises at 5:15-5:45pm. * JVM 10.7L, heard with such tremen-
dous volume at 4pm, it was believed to be using 50kW xmtr (Messer)

JAVA Javanese stations of the NIROM will not verify reports after
Jan. 1, 1937 (NIROM) ** PMA-19.345 and PLE-18.82, broadcast church ser-
vices on Saturdays at 9:30pm (W.A.W.N.) ** The NIROM Western network
is relayed by YDA 3.04, YDB 9.64, YDC 15.15, PLP 11 and PMN 10.26. YDC
at Bandoeng, has a power 3kW and its transmissions are purely experi-
mental. PMH-6.727, Bandoeng, 3kW, relays the NIROM-Eastern (native) net-
work (J.H. Hardeman and NIROM)

MACAO CQN, Macao, 300 watts, is now being heard on 9.6mc, Mon and Fri
7-7:30am. Reports should be sent to J. Estrela, Government Broadcasting
Station CQN, Post Office Building, Macao. (** Laul) (Graham)

N. Z. ZLT2-11.00, Wellington, heard calling ZMBJ, "SS Althea", at 4am.

PALESTINE Radio Jerusalem-11.89, Jerusalem, operates 9:30am-2:30pm-
(** Frank Andrews)

P. I. KZRM has discontinued S.W. transmissions. If a 3-year govern-
ment subsidy can be effected a powerful new S.W. xmtr. will be erected.

SIAM Present sked of HS8PJ, Bangkok, is Mondays 8-10am on 19.02mc,
and Thursdays 8-10am on 9.35mc (** Sholin, CSWRC)

TAHITI FO8AA-7.12, Papeete, operates Tues and Fri 11pm-mid. (Britting)

U. S. S. R. RTA-12.88, Nove Sibirsk, phones Moscow at midnight. Mystery
station in Siberia on 14.7mc, heard contacting Moscow at midnight-
(** C. Miller)

ASIATIC AMATEURS REPORTED

PK1QU 14.08, PK1MX 14.1, PK3AW 14.15, PK3ST 14.3, PK4AU 14.35, VS6AQ-
14.3, VS2AK 14.11, VK2NV 14.01, VK6MW 14.01, VK3DQ 14.01, VK3ZZ 14,
VK3BW 14.02, VK2OU 14.04, VK2QR 14.04, VK3GQ 14.05, VK3OC 14.07,
VK2QR 14.07, VK3HL 14.075, VK2OG 14.08, VK5TR 14.08, VK2ACO 14.08
VK2JZ 14.08, VK2TI 14.1, VK2IA 14.11, VK2HF 14.25, VK2AC 14.27,
VK2ABC 14.28, VK2CP 14.3, VK4TW 14.31 and VK3EG 14.32. All of the
above amateurs were heard between 2 and 8am.

SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N- New stations; F- Change in frequency; S- Change in sked. C- Change in frequency and schedule; B- Frequency calibrations according to Oxrieder-IDA Frequency Bureau; U- Unstable frequency; D- Drifts

DIAL METERS	MEGS.	CALL	STATION	TIME	E.S.T.
F15.77	17.79	HS8PJ	Bangkok, Siam.	Mondays 8-10am.	
16.86	17.79	GSG	Daventry, England.	Not in use at present.	
16.87	17.785	JZL	Nazaki, Japan.	Will be on the air soon.	16
16.87	17.78	W3XAL	Boundbrook, N.J.	9am-5pm (East Asia)	
16.89	17.76	DJE	Zeesen, Germany.	12:05-5:15, 5:55-11am to-	
19.52	15.37	HAS3	Budapest, Hungary.	Sunday 9-10am.	
19.56	15.34	DJR	Zeesen, Germany.	8-9am to Central America.	
19.57	15.33	W2XAD	Schenectady, N.Y.	10am-3:45pm. (M, Th 7-9pm	
F19.585	15.32	OLR	Prague, Czechoslovakia	11am-2pm, 2pm-4:35,-	
19.60	15.31	GSP	Daventry, England.	6-8pm.	
S19.62	15.29	LRU	Buenos Aires, Argen	7am-4:50pm (12:20pm Sun.	
19.63	15.28	DJQ	Zeesen, Germany.	6-8, 8:15-11am, 11:10am-	
S19.64	15.27	W2XE	Wayne, New Jersey.	1-5pm.	19M
19.68	15.243	TPA2	Pontoise, France.	2-2:40am, 5:55-11am.	
19.71	15.22	PCJ	Eindhoven, Holland.	Tues 4:30-6am, Wed 8-11am.	
S19.72	15.21	W8XK	Pittsburgh, Penna.	9am-7pm. (Sun 11:10a-12:20	
S19.74	15.20	DJB	Zeesen, Germany.	12:05-5:15, 5:55-11am,-	
N19.75	15.19	ZBW	Hong Kong, Hong Kong	Sun 6-9:30am; Mon, Th 7-10am; Tu, Wd, Fr, Sa 6-10am.	
S19.76	15.18	GSO	Daventry, England.	3-5am.	
S19.79	15.16	JZK	Nazaki, Japan.	Reported Mon, Thur 4-5pm.	
19.80	15.15	YDC	Bandoeng, Java.	5:30-10:30am.	
S19.82	15.14	GSF	Daventry, England.	6-8:45, 9am-Nn, 4-5:45pm.	
19.84	15.12	HVJ	Vatican City, Italy	10:30-10:45am. (Sun 6-8am.	
19.85	15.11	DJL	Zeesen, Germany.	Mid-2am, 11:35-4:30pm, 8-9a	
C19.88	15.09	RV96	Moscow, U.S.S.R.	Sun 1:30-2pm.	
20.04	14.97	LZA	Sofia, Bulgaria.	Su 12:30-8, 10am-4:30pm, M/W/F/S 5-7am, Tu/Th 1-3pm.	
S20.55	14.60	JVH	Nazaki, Japan.	12-1am, 5:15-5:45pm & irr.	
22.00	13.635	SPW	Babice, Poland.	Mon, Wed, Fri 11:15am-12:30	
C22.90	13.10	TIRCC	San Jose, C.R.	Will be on the air soon.	
23.01	13.04	HC2FA	Guayaquil, Ecuador.	Monday 8-10pm.	
24.52	12.235	TFJ	Reykjavik, Iceland.	Sundays 1:40-2:30pm.	
S25.00	12.00	RNE	Moscow, U.S.S.R.	Su/W 6-7am, Su 10-11am, Sun, Mon, Wed, Fri 4-5pm.	
S25.21	11.90	XEWI	Mexico D.F.	M/W/F 3-4pm, Tu/Th 7:30-8:45pm, T/Th/F 10pm-mid et	
N25.23	11.89		Jerusalem, Palestine	9:30am-2:30pm.	
25.24	11.885	TPA3	Pontoise, France.	2-2:40am, 2:55-5, 12:15-6pm	
C25.26	11.875	OLR	Prague, Czechoslov.	2-4:35pm, Mon/Thur 7-9pm ?	
S25.27	11.87	W8XK	Pittsburgh, Penna.	7-10pm.	
S25.36	11.83	W2XE	Wayne, New Jersey.	5-11pm.	
S25.40	11.81	2R04	Rome, Italy.	6:43am-5:30pm.	25M
25.42	11.80	JZJ	Nazaki, Japan.	Will be on the air soon.	
S25.43	11.79	W1XAL	Boston, Mass.	5:50-6:30pm, Sat 5-7pm.	
25.49	11.77	DJD	Zeesen, Germany.	11:35-4:30pm, 4:50-10:45pm	
25.53	11.75	GSD	Daventry, England.	12:15-5:45pm, 6-8, 9-11pm.	
N25.55	11.74	HP5L	David, Panama.	Will be on the air soon.	
25.58	11.73	F31CD	Saigon, Indo-China.	Signs-off at 9:30am.	
F25.60	11.73	PHI	Huizen, Holland.	M/T/F/Sa 8-11a, Sun 7-10am	
25.60	11.72	CJRX	Winnipeg, Canada.	7-12m, S 4p-1a, Su 3-9:30pm	
25.61	11.714	TPA4	Pontoise, France.	6:15pm-1am. (5pm	
S25.63	11.705	SM5SX	Stockholm, Sweden.	6:25-7, 11am-5pm, Sun 4am-	
C26.24	11.435	COCX	Havana, Cuba.	8am-1am, Sun 8am-N'n, 6-9pm	
26.60	11.28	HIN	Trujillo City, D.R.	11:40am-1:40pm, 4:40-5:40p	
27.27	11.00	PLP	Bandoeng, Java.	5:30-11am.	
S27.93	10.74	JVM	Nazaki, Japan.	Tu/F 2-3pm, 4-7:40am irreg	
27.93	10.74	EDX	Las Palmas, Canarias	9:30-10:15pm irregular.	
28.12	10.67	CEC	Santiago, Chile.	7-7:15pm.	
28.14	10.66	JVN	Nazaki, Japan.	4-7:40am, Mon/Thurs 4-5pm.	
S28.93	10.37	EHZ	El Tablero, Canarias	2-4 and 6-8pm approx.	
28.98	10.35	LSX	Buenos Aires, Argen	8-9pm irreg.	

29.04	10.33	ORK	Ruyselede, Belgium	2:30-4pm.
29.24	10.26	PMN	Bandoeng, Java.	5:30-11am to Sumatra.
C30.21	9.93	CSW	Lisbon, Portugal.	4-7pm irreg.
30.43	9.86	EAQ	Madrid, Spain.	5:15-10pm, Sat 1-3pm.
30.78	9.746	COCQ	Havana, Cuba.	Relays CMQ 7am to lam.
B30.94	9.698	TI4NRH	Heredia, Costa Rica	9-10, 11:30pm-midnight
B31.05	9.664	CT1AA	Lisbon, Portugal.	Tues/Thur/Sat 3-6pm.
C31.06	9.66	CR6AA	Lobito, Angola.	Wed/Sat 3:45-5:30pm.
S31.06	9.66	LRX	Buenos Aires, Argen	5-9pm.
U31.06	9.66	YNLF	Managua, Nicaragua.	2-3 and 8-11pm.
31.09	9.65	YDB	Sourabaja, Java.	5:30-11am.
B31.12	9.64	HH3W	Port-au-Prince, Haiti	1-2, 7-8:30pm.
S31.13	9.635	2R03	Rome, Italy.	6-6:20pm, M/W/F 6-7:30pm.
B31.20	9.616	HJ1ABP	Cartagena, Colombia	11am-1pm, 5-11pm, Sun 5-8pm
31.23	9.605	HP5J	Panama City, Panama	11:45-1:15pm, 7-10pm. (8pm
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7:30pm; Su, Wed, Fr 7:30-
F31.25?	9.60?	CQN	Macao, Macao.	Mon/Fri 7-8:30am
S31.25	9.60	CB960	Santiago, Chile.	10:30am-Noon, 6-8:30pm.
31.27	9.595	HBL	Geneva, Switzerland	Saturday 5:30-6:15pm.
S31.28	9.59	PCJ	Eindhoven, Holland.	Su 2-3, 7-8pm, Wd 1-3, 7-10p
31.28	9.59	VK6ME	Perth, W. Australia.	Will be on the air soon.
S31.28	9.59	VK2ME	Sydney, Australia.	Sun 1-3, 4:30-8:30, 9-11am.
M31.28	9.59	W8XAL	Cincinnati, Ohio.	May operate here soon.
31.28	9.59	W3XAU	Philadelphia, Penna	Noon-8pm, Sun N'n-7pm.
U31.28	9.59	HJ2ABC	Cucuta, Colombia.	6-10pm except Sundays. 31M
31.32	9.58	GSC	Daventry, England.	6-8 and 9-11pm.
31.32	9.58	VK3LR	Melbourne, Austr.	3:30-8:30am, Sun 3-7:30am
31.35	9.57	WLXK	Springfield, Mass.	6am-mid, Sun 7am-midnight
31.36	9.565	VUB	Bombay, India.	Su 1-2:30am, Tu/Sat 11:30a
S31.38	9.56	DJA	Zeesen, Germany.	12:05-5:15, 5:55-11am, 4:50
				-10:45pm to C.America.
31.45	9.54	DJN	Zeesen, Germany.	12:05-5:15, 4:50-10:45pm.
31.45	9.54	VPD2	Suva, Fiji's.	5:30-7am. except Sunday.
S31.45	9.54	CB954	Santiago, Chile.	Should be operating soon.
S31.46	9.535	JZI	Nazaki, Japan.	Reported Mon/Thur 4-5pm.
31.48	9.53	W2XAF	Whehnectady, N.Y.	4pm-midnight.
31.48	9.53	LKJ1	Jeloy, Norway.	6-11pm.
F31.50	9.525	HJ4ABH	Armenia, Colombia.	Evenings irregular.
M31.50	9.525	ZBW	Hong Kong, Hong Kong	Sun 6-9:30am; Mon, Th 7-
				10am; Tu, W, Fr, Sa 6-10am.
N31.51	9.52	XEDQ	Guadalajara, Mexico	Evenings irregular. (9-11p
S31.55	9.51	GSB	Daventry, England.	3-5, 9am-N'n, 12:15-5:45pm-
31.57	9.505	XEPT	Veracruz, Mexico.	Evenings irregular. (11pm.
S31.58	9.50	HJ1ABE	Cartagena, Colombia	7:30-9pm ex. Sun, Mon 10-
31.58	9.50	PRF5	Rio de Janeiro, Brz	4:45-5:45pm ex. Sunday.
B31.59	9.498	HJU	Buenaventura, Col.	Mon/Wed/Fri N'n-2, 8-11pm.
B31.60	9.495	VK3ME	Melbourne, Austr.	4-7am except Sundays.
31.73	9.45	TGWA	Guatemala, Guat.	8-10, 11pm-mid, to 5am Sun.
31.80	9.428	COCH	Havana, Cuba.	7am-mid, Sun 8-9, 11:30am-
				1:30pm, 6-9pm.
31.84	9.415	PLV	Bandoeng, Java.	Tu/Th/Sat 10-10:30am irr.
32.09	9.35	HSSPJ	Bangkok, Siem.	Thursdays 8-10am.
32.88	9.125	HAT4	Budapest, Hungary.	Sunday 6-7pm.
33.53	8.948	HCJB	Quito, Ecuador.	7-11:30pm except Mondays.
M34.01	8.82	COCE	Havana, Cuba.	Relays CMCE 11pm-1am irr.
M34.11	8.795	HKV	Bogota, Colombia.	7-7:30pm irregular.
34.26	8.75	ZBW	Hong Kong, Hong Kong	4-10pm.
S34.66	8.665	CO9JQ	Camaguey, Cuba.	5:30-6:30pm irregular.
D35.09	8.55	YNVA	Managua, Nicaragua.	1-2:30, 7:30-10pm.
D36.59	8.20	HC2CW	Guayaquil, Ecuador.	7:30-11pm except Sundays
B38.20	7.854	HC2JSB	Guayaquil, Ecuador.	6-11pm except Sundays.
38.47	7.797	HBP	Geneva, Switzerland	Saturdays 5:30-6:15pm.
M39.74	7.55	TI8WS	Purtarens, C.R.	5-7, 8:30-10pm, Sun 4-5pm.
S39.87	7.52	KKH	Kahuku, Hawaii.	Tues 12:30-1a, Th 1:30-2am
40.65	7.38	XEGR	Mexico D.F.	Sunday 7-8pm.
41.49	7.23	ECEI	Madrid, Spain.	7:45-8:15pm irreg.
N42.19	7.11	ECP2	Barcelona, Spain.	1-3:40 or 4pm.
D42.25	7.10	FO8AA	Papeete, Tahiti.	Tues/Fri 11pm-midnight.

C42.80	7.01	EABAB	Tenerife, Canarias	Mon/Wed/Fri 3:15-4:15pm.
42.97	6.996	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:40-9:40pm
N43.04	6.97	EA9AH	Tetuan, Morocco.	3:15-4:15pm.
43.51	6.895	HCETC	Quito, Ecuador.	Thursday 8-10:30pm. (am
43.99	6.82	XGOX	Nanking, China.	6:30-8:40am, Sun 7:30-9:30
44.12	6.80	HI7P	Trujillo City, D.R.	Evenings irreg.
44.25	6.78	HIH	San Pedro, D.R.	7:40-9:10pm except Sunday
44.51	6.74	HCLTQ	Quito, Ecuador.	Sunday 5-7pm.
S44.58	6.73	HI3C	La Romana, D.R.	12:10-1:40pm, 6:10-7:40pm.
44.60	6.727	PMH	Bandoeng, Java.	5:30-11am.
F44.90	6.682	TIEP	San Jose, C.R.	7-10:30pm except Sundays.
B45.22	6.635	HC2RL	Guayaquil, Ecuador.	Sun 5:30-7:30p, 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.	Thursday 9-11pm.
S45.76	6.555	HI4D	Trujillo City, D.R.	5:10-8:10pm ex. Sunday.
S45.84	6.545	YV11RB	Bolivar, Venezuela.	7-10pm.
46.01	6.52	YV6RV	Valencia, Venezuela	5:30-9:30pm.
N46.15	6.50	T10W	Port Limon, C.R.	10-11:30am, Sunday 2-3pm.
B46.21	6.492	HIL	Trujillo City, D.R.	5:40-7:40pm ex. Sundays.
B46.34	6.475	HI4V	Trujillo City, D.R.	5:10-6:40pm ex. Sundays.
F46.51	6.45	HI8A	Trujillo City, D.R.	5:40-7:40pm ex. Sundays.
46.70	6.425	VE9AS	Fredericton, N.B.	Thurs 10:30pm-1:30am.
46.70	6.425	OAXLK	Huancayo, Peru.	Evenings irreg.
46.73	6.42	HI1S	Puerto Plata, D.R.	6:10-8:10pm ex. Sundays.
46.80	6.41	T1PG	San Jose, C.R.	6-11:30pm.
46.88	6.40	YV9RC	El Valle, Venezuela	5:30-9:30pm ex. Sundays.
N46.95	6.39	YV1RG	Maracaibo, Venez.	8:30-11pm. (Sundays.
47.02	6.38	YV1RC	Caracas, Venezuela.	11am-1pm, 5:30-9:30pm ex-
S47.20	6.357	HRP1	San Pedro, Sula, Honduras	7:45-10pm ex. Sun.
N47.24	6.35	YV1RV	Valera, Venezuela.	8-9:30pm.
B47.27	6.346	HH3NW	Port-au-Prince, Haiti	7-8:30pm. 49M
47.32	6.34	HIX	Trujillo City, D.R.	Tues/Fri 8:10-10:10pm.
47.54	6.31	HI2	Trujillo City, D.R.	5:10-7:40pm ex. Sundays.
47.62	6.30	YV12RM	Maracay, Venezuela.	6-10pm except Sundays.
47.76	6.282	CO9WR	Sancti Spiritus, Cuba	4-6, 9-11pm ex. Sundays.
47.77	6.28	HIG	Trujillo City, D.R.	8:10-9:40p, T/F 6:40-8:10p
B47.92	6.26	OAX4G	Lima, Peru.	7-11pm.
48.00	6.25	CO5RY	Matanzas, Cuba.	7-9pm.
48.00	6.25	YV5RJ	Caracas, Venezuela.	Will be on the air soon.
48.04	6.245	H1N	Trujillo City, D.R.	7:10-9:10pm.
S48.11	6.235	HRD	La Ceiba, Honduras	8-11pm.
B48.38	6.202	COKG	Santiago, Cuba.	8-9am, 11am-2pm, 5-9pm.
B48.39	6.20	HI8Q	Trujillo City, D.R.	4:40-8:40pm.
48.47	6.19	HI1A	Santiago, D.R.	10:40a-1:40p, 6:40-9:40pm
S48.61	6.171	XEXA	Mexico D.F.	8-10am, 3-5, 7-11pm.
48.62	6.17	HJ2ABA	Tunja, Colombia.	7-10pm except Sundays.
B48.73	6.156	YV3RC	Caracas, Venezuela.	3:30-10pm.
S48.78	6.15	CB615	Santiago, Chile.	4-7pm.
D48.78	6.15	HI5N	Santiago, D.R.	6-7am, Noon-2pm, 6-9:30pm.
48.78	6.15	CJRO	Winnipeg, Canada.	7-mid, Sat 4pm-1am, S-3pm-
48.81	6.147	ZEB	Bulawayo, S. Rhodesia	Tu/F 12:15-3:15p, M 11am- N'n, Th 10am-N'n, S 3:30-6p
D48.82	6.145	HJLABU	Pereira, Colombia.	7-8pm except Sundays.
S48.86	6.140	WBXK	Pittsburgh, Penna.	10pm-1am.
U48.87	6.138	HJLABD	Medellin, Colombia.	8-11pm. (10am-12:30pm.
S48.89	6.137	CR7AA	Laurencio, Mozambique	12:45-3pm, Sun 5:30-7am.
B48.91	6.134	VE9HX	Halifax, N.S., Canada	Relays CHNS.
B48.93	6.132	HJLABB	Barranquilla, Colom.	6-10pm except Sundays.
48.94	6.13	ZGE	Kuala Lumpur, FMS.	Sun/Tues/Fri 6:40-8:40am.
S48.94	6.13	COCD	Havana, Cuba.	N'n-1am, Sun 10am-4, 8-10pm
48.94	6.13	VP3BG	Georgetown, B. Guiana.	6-11:30pm.
49.01	6.122	HJ3ABX	Bogota, Colombia.	Noon-1pm, 9-11pm.
49.01	6.122	OAX4P	Lima, Peru.	10-11pm.
49.02	6.12	W2XE	Wayne, New Jersey.	7:30pm-midnight.
49.02	6.12	XEFT	Veracruz, Mexico.	Prague, Czechoslovakia, testing in evenings.
49.06	6.115	OLR	Prague, Czechoslovakia, testing in evenings.	Sat 9:35pm-Sun 2:05am, Sun
49.11	6.109	VUC	Calcutta, India.	7:05-10:35, dly 1:35a-1120

49.11	6.108	HJ4ABB	Manizales, Colombia.	8-10pm except Sundays.
49.18	6.10	W3XAL	Boundbrook, N.J.	Mon/Wed/Sat 6pm-1am.
49.18	6.10	W9XF	Chicago, Illinois.	Su/T/Th/F 8pm-1am; Mon/Wed Sat 1-2am.
49.18	6.10		Seville, Morocco.	Testing irregularly.
49.20	6.097	HJ4ABE	Medellin, Colombia.	7:30-10:30pm.
49.20	6.097	ZTJ	Johannesburg, S.Afr	11:45pm-12:30am, 3:15-7am, 9-11:15am, 11:45am-4pm.
49.22	6.095	JZH	Nazaki, Japan.	Will be on the air soon.
49.26	6.09	CRGX	Bowmanville, Canada	5-11pm. (4:45pm.
49.26	6.09		Belgrade, Yugoslavia	2-3:45, 7-8:30, 11:30am-
49.30	6.085	2R01	Rome, Italy.	Mid-winter frequency.
49.30	6.085	HJ5ABD	Calli, Colombia.	7-10pm. (Sat/Sun 11am-3pm.
49.32	6.083	VQ7LO	Nairobi, Kenya.	Mon/Fri 11:30am-2:30pm, -
49.34	6.08	HP5F	Colon, Panama.	7-10:30pm.
49.34	6.08	W9XAA	Chicago, Illinois.	6:30-8:30am, 5pm-midnight.
49.34	6.08	ZHJ	Penang, S.S.	6:40-8:40am ex. Sundays.
49.42	6.072	OER2	Vienna, Austria.	9am-5pm, Sat 9am-6pm.
49.44	6.069	HJ3ABF	Bogota, Colombia.	7-11pm.
49.50	6.06	OXY	Skamlebaek, Denmark	1-6:30pm, Sun 11am-7pm.
49.50	6.06	W3XAU	Philadelphia, Penna.	8-11pm. (Sun 8am-8pm
49.50	6.06	W8XAL	Cincinnati, Ohio.	7:30am-8pm, 11pm-1:30am.
49.59	6.05	HJ3ABD	Bogota, Colombia.	7pm-midnight.
49.59	6.05		Colombo, Ceylon.	6:30-7:45am.
49.59	6.05	GSA	Daventry, England.	Mid-winter frequency.
49.63	6.045	HI9B	Santiago, D.R.	11am-9pm, Sun 12:15-1:15am
49.65	6.042	HJLABG	Barranquilla, Colom	6:30-10pm.
49.67	6.04	W4XB	Miami, Florida.	
49.67	6.04	W1XAL	Boston, Mass.	Mon/Fri 7-9, Sun 5-7pm.
49.67	6.04	PRAB	Pernambuco, Brazil.	2:30-8:30pm.
49.71	6.035	HJ4ABC	Ibague, Colombia.	8-10pm.
49.75	6.03	HP5B	Panama City, Panama	8-10:45pm.
49.75	6.03	VE9CA	Calgary, Canada.	10am-midnight.
49.77	6.028	HJ4ABP	Medellin, Colombia.	7-11pm except Sundays.
49.83	6.02	XEUW	Veracruz, Mexico.	10pm-1am. (pm
49.83	6.02	DJC	Zeesen, Germany.	11:35am-4:30pm, 4:50-10:45
49.85	6.018	ZHI	Singapore, S.S.	Sat 10:40pm-1:10am, Mon/Wd Thurs 5:40-8:10am.
49.85	6.018	HJLABJ	Santa Marta, Colom.	6-10pm.
49.88	6.015	HI3U	Santiago, D.R.	4:40-9:40pm except Sunday
49.91	6.012	HJ3ABH	Bogota, Colombia.	4-11pm, Sunday 4-9pm.
49.92	6.01	COCO	Havana, Cuba.	7:55am-10pm or midnight.
49.92	6.01	VK9MI	S.S. Kanimbla.	6-6:30am.
49.92	6.01	CJCX	Sydney, N.S., Canada,	will be on the air soon.
49.92	6.01	FIU	Tananarive, Madagascar	4-4:45am, 9:45-10:15am.
49.95	6.005	CFCX	Montreal, Canada.	7:45am-1am, Sun 9am-11:15p
49.95	6.005	HP5K	Panama City, Panama	8:30-10am, 1-2, 7-10pm.
49.97	6.003	XEBT	Mexico City, D.F.	10am-1:45am.
50.00	6.00	OAX4J	Lima, Peru.	7-11pm.
50.03	5.997	VP3MR	Georgetown, B. Guiana	4:15-9pm.
50.11	5.987	HJ2ABD	Bucaramanga, Colom.	6-10pm.
50.26	5.969	HVJ	Vatican City, Italy	2-2:15pm Sunday 5-5:15pm.
50.29	5.966	HJ1ABC	Quibdo, Colombia.	5-6pm, Sunday 3-5pm. (Sun.
50.42	5.95	HJN	Bogota, Colombia.	11am-2pm, 5-10:30pm. ex.
50.51	5.94	TG2X	Guatemala, Guate.	Mon/Wed/Sat 9-10:30pm.
50.72	5.914	HV2S	Port-au-Prince, Haiti	7:30-9:30pm ex. Sundays.
50.86	5.899	YV8RB	Barquisimeto, Venez.	5:30-9:30pm except Sunday
51.07	5.875	HRN	Tegucigalpa, Honduras	6:30-8, 8:30-10pm.
51.16	5.863	HI1J	San Pedro, D.R.	11:40a-1:40p, 6:10-8:40pm.
51.28	5.85	YV5RMO	Maracaibo, Venezuela	10:45am-12:45pm, 4:45-9:45pm ex. Sun.
51.55	5.82	TIGPH	San Jose, C.R.	N'n-2pm, 7-11pm ex. Sundays
51.72	5.80	YV2RC	Caracas, Venezuela.	5:15-9:30pm, Sun 3:30-9pm.
51.90	5.78	OAX4D	Lima, Peru.	Wed/Sat 9-11:30pm.
52.26	5.74	TGS	Guatemala, Guatemala	Sun/Wed/Thur 6-9pm.
565.22	4.60	HC2ET	Guayaquil, Ecuador.	Wed/Sat 8-10pm.
70.20	4.273	RV15	Khabarovsk, U.S.S.R	11pm-11am.
98.70	3.04	YDA	Tandjongpriok, Java	5:30-10am.

LEADING COMMERCIAL STATIONS (1)

Note: Under group, contact station or stations shown.

MC	CALL STATION	GROUP	MC	CALL STATION	GROUP
22.29	GBU Rugby	WMA-WVY	14.935	PSE Rio de Janeiro	18-3
21.42	WKK Lawrenceville	1	14.91	JVG Nazaki, Japan	
21.16	LSL Buenos Aires	18-6-2	14.80	WQV Rocky Point	Europe
21.08	PSA Rio de Janeiro	6-3-1	14.73	IQA Rome, Italy	JVH
21.02	LSN Buenos Aires	3-1	14.69	PSF Rio de Janeiro	19-18
20.86	EHY Madrid	YVR-4	14.653	GBL Rugby	JVH
20.38	GAA Rugby	2	14.62	EHY Madrid	PSE-6-4
20.04	OPL Leopoldville, Congo	5	14.60	JVH Nazaki	DFB-IQA-GBL
20.02	DHO Nauen, Germany	6	14.59	WMN Lawrenceville	GAS
19.98	KAX Manila	KWU	14.535	HBJ Geneva	EXP.
19.82	WKN Lawrenceville	8	14.53	LSN Buenos Aires	10-3
19.68	CEC Santiago, Chile	9	14.485	TIR Cartago, C.R.	17
19.62	VQG Nairobi, Kenya	10	14.485	TIU Cartago, C.R.	17
19.53	EDX Madrid	11	14.485	YNA Managua, Nicaragua	17
19.48	GAD Rugby	10	14.485	HPF Panama City	17
19.355	FTM St. Assise	11	14.485	HRM Tela, Honduras	17
19.345	PMA Bandoeng, Java		14.485	TGF Guatemala, Guat.	17
19.27	PPU Rio de Janeiro	4-6	14.47	WMP Lawrenceville	GBW
19.22	WKF Lawrenceville	12	14.46	DZH Zeesen, Germany	EXP.
19.20	ORG Brussels, Belgium	5	14.44	GBW Rugby, England	WMF
19.14	LSM Buenos Aires	11-6-4	14.41	DIP Zeesen, Germany	EXP.
18.97	GAQ Rugby	ZSS	13.90	WQP Rocky Point, N.Y.	EXP.
18.91	JVA Nazaki	Europe	13.82	SUZ Cairo, DGU-DFC-GBB	
18.89	ZSS S. Africa	GAQ-GAU	13.667	HJY Bogota, Colombia	CEC
18.83	PLE Bandoeng, Java	15-KWU	13.595	GBB2 Rugby, England	21
18.68	OCI Lima, Peru	9-1	13.585	GBB Rugby	SUV-SUZ-21
18.62	GAU Rugby	WVY-ZSS-8	13.41	YSJ San Salvador, Sal.	17
18.48	HBH Geneva	Exp	13.39	WMA Lawrenceville	22-GBU
18.44	HJY Bogota, Colombia	9			GAS-GBW
18.388	PZS Saigon	13	13.345	YVQ Maracay, Venez.	17
18.34	WLA Lawrenceville	GAS	13.285	CGA Drummondville	21
18.31	GAS Rugby	WMA-WMN-WLA	13.18	DGG Nauen, Germany	EXP.
18.295	YVR Maracay	6-11-EHY	13.02	JZE Nazaki, Japan	Ships
18.20	GAW Rugby		13.00	DFC Paris, France	CNR
18.18	CGA Drummondville	GBB	12.985	DFC Nauen, Germany	KAY
18.115	LSY3 Buenos Aires	11-4-2			SUV-SUZ
18.04	GAB Rugby	LSM	12.865	IAC Coltano, Italy	Ships
17.75	IAC Pisa, Italy	Ships	12.840	WOO Ocean Gate	Ships
17.545	VWY Poona, India	GAU-GBU	12.83	HJA3 Barranquilla	17
17.52	DFB Nauen	KAY-6	12.83	CNR Rabat, Morocco	FTA-TYB
17.26	DAN Norden, Germany	Ships	12.795	IAC Pisa, Italy	Ships
17.12	WOO Ocean Gate	Ships	12.78	GBC Rugby	VWY
17.08	GBC Rugby	Ships	12.394	DAN Norden, Germany	Ships
16.30	WLK Lawrenceville	18-3	12.29	GBU Rugby, England	WMA
16.25	FZR Saigon	FTA-FTK	12.25	TYB Paris, France	CNR-JVH
16.24	KTO Manila	JVE-KWU	12.235	TFJ Iceland	England
16.117	IRY Rome, Italy		12.215	TYA Paris, France	Algeria
16.03	KKP Kahuku	PLE-KTO-KWU	12.15	GBS Rugby, England	WMA
15.88	FTK St. Assise	FZR-FZS-6	12.02	VIY Rockband, Austr.	CJA6
15.86	JVD Nazaki	KWU	11.99	FZS Saigon	FTK-FTA
15.86	CEC Santiago	14	11.94	FTA St. Assise	FZR-FZS
15.81	LSL Buenos Aires	2	11.67	PPQ Rio de Janeiro	
15.76	JYT Japan	KWU-KWE			LSX-WET-WCG
15.66	JVE Nazaki, Japan	KWU-15	11.66	JVL Nazaki, Japan	(XDM
15.625	OCJ Lima, Peru	14	11.50	XAM Meride, Mexico	XDR
15.62	JVF Nazaki, Japan	KWU-16	11.495	VIZ3 Rockbank, Austr.	CJAL
15.43	KWE Bolinas, Calif	KTO-15	11.413	CJAL Drummondville	VIZ3
15.415	KWO Dixon, Calif	16	11.402	HBO Geneva	EXP.
15.355	KWU Dixon	JVD-JVE-JVF	11.05	ZLT Wellington, NZ	VLZ
		KAX-KKP-PLE-KTO	11.00	XBJQ Mexico, D. F.	EXP.
15.055	WNC Hialeah	17	11.975	OCI Lima, Peru	HJY-CEC
14.985	YSL San Salvador, Sal.	17	10.910	KTR Manila, L. I.	KWU-DFC
14.94	HJB Bogota, Colombia	17	10.840	KWV Dixon, Calif.	KTR