

THE GLOBE CIRCLER

COMPLETE GUIDE-BOOK FOR SHORT-WAVE LISTENERS



The Program Planning Committee for World Radio University Station WRUL at Boston. This station with its new twin 50,000 watt transmitters is the most powerful radio station in the world devoted to education and international good-will.

WAR NEWS (ENGLISH) FROM EUROPE (Daily E.S.T.)

6:30 a. m.	London	GSG	17.79	8:00 p. m.	Moscow	RV96	15.18
6:45 a. m.	Berlin	DJL	15.11	8:00 p. m.	Stockholm	SBT	15.15
8:00 a. m.	London	GSV	17.81	8:15 p. m.	Berlin	DJL	15.11
8:15 a. m.	Berlin	DJL	15.11	9:00 p. m.	Budapest	HAT4	9.125
11:00 a. m.	London	GSV	17.81	10:00 p. m.	Rome	2RO4	11.81
11:15 a. m.	Berlin	DJB	15.20	10:30 p. m.	Berlin	DJD	11.77
3:50 p. m.	London	GSP	15.31	12:00 mid.	Berlin	DJD	11.77
4:45 p. m.	London	GSP	15.31	1:15 a. m.	London	GSD	11.75
6:00 p. m.	Berlin	DJL	15.11	1:30 a. m.	Rome	2RO3	9.630
8:00 p. m.	London	GSD	11.75	3:00 a. m.	London	GSD	11.75

INTERNATIONAL DX'ERS ALLIANCE

International
PUBLISHED MONTHLY
EXCEPTING JULY



INCORPORATING AMA-TOURING
BLOOMINGTON, ILLINOIS, U. S. A.

Dixers Alliance
CHARLES A. MORRISON
EDITOR

Volume 8

July, 1940

Number 7

IMPORTANT EDITORIAL

Commencing with this issue, AMA-TOURING will be incorporated with the GLOBE CIRCLER, at least for the duration of the war.

To make room for the new AMA-TOURING section we are deleting the broadcast band station and dx notes. This is bound to come as a disappointment to some of our older members but reduced revenues resulting from total war has forced us to make certain drastic and unpleasant decisions to insure the continuance of the club. Should there be a major revival of interest in broadcast band dxing or should our revenue increase to the point where we can add extra pages to the magazine we will gladly reincorporate a broadcast band department.

Hereafter the subscription rate for the GLOBE CIRCLER (incorporating Ama-Touring) will be \$1.50 per year. With increased printing and paper costs; and the impossible financial situation in foreign countries, this is absolutely the minimum amount upon which we can continue to operate.

We crave your support and indulgence during this critical period in the club's history. Your loyal cooperation at this time can either make or break our club. I sincerely believe you will stand by in this emergency.

---Charles A. Morrison.

NEW MEMBERS

Clayton Woodward, South Ashburnham, Massachusetts...Reeve O. Strock, Jamaica, L.I., New York...Michael Belok, Chicago, Illinois...Howard Perkins, Cleveland, Ohio...Wm. A. Kessler, W2ECR, St. Albans, New York...Antonio Do Valle Domingues, Lisbon, PORTUGAL...Mrs. George E. Allen, Lafayette, Rhode Island...M. Unger, Detroit, Michigan.

CHAPTER NOTES

AUTO CITY (Detroit)- Informal meetings being held at members homes during summer. Regular meetings will be resumed in September. . . WORLD WIDE DIAL CLUB and WINDY CITY CHAPTER (Chicagoland)- Officers elected for next season are: Edgar Schenk, Chairman; Matt Kandle, Vice-Chairman; Gail Beyer, Secretary, and Bob Irwin, Treasurer. Chapt. sponsored the very successful IDA/NRC Mid-States convention on July 27. Regular meetings will be resumed in September. Will all

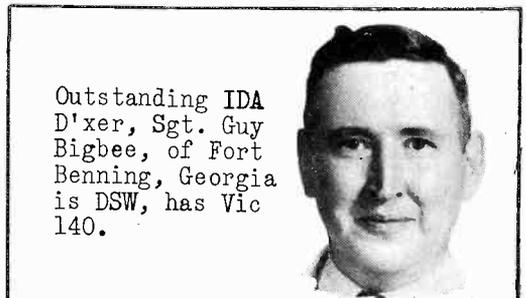


Ronald Baker former IDA European General Rep., now with forces.

Chapt. Secretaries please write in and give us definite information concerning plans for their chapters, including regular meeting dates etc., in time for inclusion in the September G.C.

WANTED: HALLICRAFTER'S RECEIVER

Any member who has a Hallicrafter's receiver in good condition for sale, preferably a Sky Champion or Defiant, get in touch with Joel H. Armantrout, 602 East Magnolia St., Fitzgerald, Ga., stating lowest cash price or terms.



Outstanding IDA D'xer, Sgt. Guy Bigbee, of Fort Benning, Georgia is DSW, has Vic 140.

SHORT WAVE NOTES

EDITOR: Chas. A. Morrison; ASSOCIATE EDITORS: M.W. Soplop, Robt. Skyten; U.H.F. EDITOR: Perry Ferrell Jr.; FREQUENCY CHECKING EDITORS: R.B. Oxrieder, John Larsen; AMA-TOURING EDITORS: Roger Legge, Roy Waite.

PRESS DEADLINES: For SEPTEMBER Globe Circler (including Ama-Touring) August 16; For SEPTEMBER STOP PRESS SHEET, August 30; For SEPTEMBER AMA-TOURING, August 10. (For Ama-Touring send news items to Roger Legge, 20 Beethoven St., Binghamton, New York.) . . . **MAKE OUT SHORT-WAVE REPORTS AS FOLLOWS:** Double space lines...Use one side of paper only...group items by continents and state time used...Items in order of importance are: **NEW** stations; exact frequencies or frequency changes; exact schedules or addresses; news periods in English; identifying signals, and unusual receptions...**RUSH IMPORTANT ITEMS BY FASTEST MAIL...****FOUR STAR ITEMS** denote exceptional merit. **EACH FIVE STAR ITEM** pays its contributor \$1.00.

Roy Waite, 39 Hannum St., Ballston Spa, N.Y., has been appointed as an Assoc. Director of the American QSL Bureau at 119 So. 8th St., Newark, New Jersey.... Have you seen the new pint size portable radios which although no bigger than a small folding camera give surprisingly good results...So that radio listeners may make their own transcribed versions of notable radio programs, General Electric's radio department has announced a new home recording record player. The new unit has facilities not only for making transcriptions or original recording on blank discs, but for playing records of any type in conjunction with a modern radio, thus combining the functions of record player and recorder. The new unit is encased in an attractively styled cabinet of the luggage type, and is used with a crystal microphone.. Selection of the winner of the Paley Amateur Radio Award for 1939 has been waived by the board of judges, because no candidate was named whose accomplishments in "research, technical development or operating achievement" justified presentation...In Gt. Britain there has been two important decisions recently about exchange of SWL cards, namely, no more QSL cards will be accepted by postal authorities, no postal card views are to be sent out of the country, and when cards are exchanged by SWL's, no mention must be made of the weather or other technical information.

FREQUENCY MODULATION

FM is now on a standard basis, call letters henceforth issued to its commercial stations will consist of four letters to distinguish them from the combination of letters and numerals used to identify experimental stations. FM stations are to be known as "high frequency broadcast" stations. They will operate in the range 42 to 50 megs, on channels 200 kilocycles wide. To provide an adequate and worthwhile service each FM station will be required to operate at least six hours per day except Sundays. Each station will be licensed to serve a specified area in square miles. It is believed there is a substantial demand for FM broadcasting, that hundreds of stations will be operating on the FM band within a few months and that the subsequent demand for FM receivers or those with FM band included will be so great as to create a huge increase in radio production. FM broadcasting is of an extremely high fidelity order and is virtually "static free".

E.S.T.

NORTH AND CENTRAL AMERICA

E.S.T.

BAHAMAS ZIO (8.114), ZSS (4.513) and ZSR (3.125), commercial stations, are reported to be testing from 7 to 9 p.m. irreg.

BARBADOS An unidentified govt. xmr. is said to be broadcasting news daily from 4:30 to 4:45 p.m. on 3.9 mcs.

BRIT. HONDURAS ZIK2 (10.6), 200w, Belize, broadcasts news bulletin at 1:30 and 8:30 p.m. QSL cd. is blue, red and black showing map of C.A. (Roberts).

CANADA CFXK (6.08), Vancouver, is being heard daily 11:30 p.m.-3am with strong volume (Balbi)...CJRX (11.72), Winnipeg, is now operating 7pm-lam, Sun. 7-11pm; news in English daily ex. Sun. at 7:30pm (Balbi, Acton)

C.R. NEW: TIRH (6.15), San Jose, 250w; TIRVM (6.035), "La Voz del Gunacaste," La Juntas Abangares, 5kw, broadcasts to 11:40pm, special program

on Thursdays 1-4am; verifies promptly (Legge, Com. Bul.)

CUBA COBZ (9.03), "Radio Salas", now has a power of 1kW (R.G.)... COCH seems to be on about 9.41 mcs. at present (Skyten)... COX4 (6.39), Havana, is being heard daily to 9:30pm (Balbi-Calif.)... COK (11.57), OK Batista, was on the air nightly to election night of July 15; verified with red, blue, white and black card having map of N.A. in white (Acton, RBO, CAM). Inasmuch as Col. Batista won the election, COK may possibly continue to operate.

D.R. HLL (6.5), Apartado 623, Ciudad Trujillo, Distrito De Santo Domingo, D.R., 250w, verified with attractive red, white and blue card... NEW: HI, in San Pedro de Macoris, is operating regularly on 6.178 (RBO)

GUADELOUPE Is FG8AH (7.445), still operating since the fall of the French central government? -Ed.

HAITI HH3W (9.89) is being heard 12-2:15pm or later with fair signals, and evenings R9 (Skyten-Mass.)

HAWAII KQH, Kahuku, has shifted frequency to 14.807 mcs. (FCC)

JAMAICA ZQI (4.75), Kingston, is now operating daily ex. Sundays 6-6:30pm, and Fridays 5:30-6:30pm (Violet Allwood-Jamaica)

MARTINIQUE "Radio Martinique" (9.705), Fort-de-France, normally operates 11:15am-12:45pm and 5:30-8:30pm. English hour is broadcast Mon/Wed 5:30-6pm and news in English daily 6:30-6:45pm. Has "Radio Martinique" been logged since the fall of the French central government? - Ed. (Radio Mart.)

MEXICO NEW: XE (6.18) has been heard several times recently (RBO)... XEWV (9.5 and 15.16) relayed Mexican election returns to U.S. (Wells, Acton)

NICARAGUA NEW: YNOW (8.24), "The Voice of Central America", Managua, is being heard nights to 11pm irreg. (RBO)

PANAMA NEW: HP6J, "Voice of Panama", operates in parallel with HP5J (RO)

U.S.A. FCC's first printed general information booklet, "An ABC of the FCC," 13 pages in pocket size, is now being distributed on request (FCC)... NAA at Washington D.C. (4.39, 9.425, 12.63) radiates Naval Observatory Time signals at 1,2,3,4,5,7,8,9,10,11am, 12 noon, 9,10,11pm and 12 mid. (FCC) ... WLOXDA (6.425, 9.135, 12.862, 17.31), 100w, operator Alan R. Eurich, experimental station aboard the Effie M. Morrissey, now enroute to Greenland, will be on the air irreg. Amateur station W2USA has received permit to communicate with WLOXDA (FCC)... KGEI now operates on 9.67, 7am-12 noon; will up power to 50kW (FCC, Walcott, Skyten, Wells)... See list for revised sked for WCAB... CBS will build a new 50,000 watt station to operate on 6.06, 9.59, 11.83, 15.27, 17.83 and 21.52. Power of WCBX will be upped to 50kW and xmtr. moved to Long Island (CBS, FCC)... Power of WGEA will be upped to 50kW, and frequencies of 6.19 and 21.59 will be added (FCC)... WLWO is testing on 9.59, 11.87, 15.27 and 21.65 mcs. See list for official sked (WLWO). WLWO has added new freq. of 17.8; and shifted freq. from 6.06 to 6.08... Power of WRCA and WNBI will be upped to 50kW... WNBI has added new freq. of 11.82... WRUW/WRUL will up power to 50kW. See list for latest revised skeds (WRUW)... WDJM at Miami, Florida, has closed down, having sold its equipment to WRUL at Boston (FCC).

SOUTH AMERICA

ARGENTINA LRU (15.29), operates 6:15-7:15am (Skyten)... LU4R (11.63), Mendoza, heard testing at 8am and announcing "Station LU4R transmitting experimentally for Buenos Aires on 11.63 kilocycles."

BOLIVIA CP43 (15.162), Cotagaita, not heard lately. May be off air (Skyten)

BRAZIL PRF5 (11.855), Rio de Janeiro, P.O. Box 709, heard irreg. 5-8pm. (Balbi, Allen)... PSE (14.935), broadcasts in German, Wed. 4-4:30pm; in Italian Thurs 3-3:30pm, and in French, Sat. 3-3:30pm. (Clark)

COLOMBIA HJAG, "Emisora Atlantico", operates days on 9.81 (Clark)... HJCW (4.945), "Emisora Sur-America", relays HJCO on 1160kcs. (Shanks)... HJGFAH verified reception on its 9.75 mcs. frequency (Shanks)

ECUADOR According to veri' HCETC, "Radio Teatro Bolivar", P.O. Box 134, Quito, operates on 9.355 mcs., weekdays 6:45-8am, 12 noon-2, and 7:45-10:15pm Sun. 6:45-8, 8-10 and 3-5pm. (Clark)... NEW unidentified xmtr. heard at 8:45 pm, on an approx. freq. of 9.4 mcs. (Skyten)

PARAGUAY Amateur ZP6AB sent his QSL air-mail registered, after 6 months.

PERU OAX4R (15.15), "Radio Nacional de Peru", Lima, presents a program of the Touring and Automotive Club of Peru, Sat. 4-4:45pm. The broadcast is all in English, prepared by Senor Victor Llona, and is designed to acquaint United States listeners with Peru (Shanks, Simpson, Skyten, Breen, Radex)

URUGUAYNEW: CXA5 (9.485), Montevideo, now being heard irreg. 7-8:20pm.**EUROPE**BELGIUM

Off the air since the Nazi invasion (Burton, Callan, Skyten, CAM)

BOHEMIANazi DHE4A (11.84) is heard daily from 6 p.m. (Tuff)DENMARKOZU and OZH are off air since the Nazi invasion (Tuff)ENGLANDTrans. 5, is now broadcast 6:25-9:00pm and Trans. 6, is broadcast 9:24-11:30pm. GSN (11.82), radiates both the foregoing transmissions. (BBC, Skyten, Balbi, CAM)... See list for completely revised skeds... A pro-Nazi station (believed to be in Germany) announcing as the "New British Broadcasting Station", may be heard on 11.935, daily 3:30-4pm, 4:30-5pm weekdays, and 11:30am-noon on Sun. (Skyten, RBO, Flora, Burton, Brehmer, Callan)FINLANDOFD (9.5) heard evenings, at times overriding XEWVV, until about 7:05pm, in parallel with OIE (15.19), the latter also being heard 11:30pm to 12:30am irreg. (Skyten, Balbi)FRANCE"Paris Mondial" went off the air when the Nazis invaded Paris, and has not been heard since with the exception of TPC5 (15.24) which is now on the air daily 12 noon to 3:15pm with Nazi broadcasts, with announcements in English and French. An English program is sometimes broadcast from 1 to 1:30pm, with news in English at 1:30pm (Skyten, Balbi, Callan, Acton Wells, CAM)GERMANYDHO (6.14) is the former SP48 of Warsaw... DJB (15.20), now broadcasts 4:50-10:50pm to Latin America. DJL (15.11), broadcasts to N.A. 6:30-9am and 4:50-11pm (Skyten, Balbi, Wells, RMA). DJZ (11.797), broadcasts to N.A. 4:50-7pm, then DJD (11.77), broadcasts to N.A. from 7pm on (Skyten). DJD is also being heard poorly 1-2am (Balbi, Calif.). DXB (9.61), is now on the air 6:15pm-1am, replacing DZD (10.543)... DJR (15.34) not in use now (Balbi)... DZC (10.29) broadcasts to Latin America, 4:50-10:50pm (Skyten)... DZG (15.36), broadcasts in Arabic, 11:30am-12:30pm (Skyten)... Lord Haw Haw may be heard as follows: Daily at 2:15pm over DJB (15.2) and (15.24); at 3:15 or 3:30 pm over DJB; at 4:15pm over DJB; at 5:15pm over DZD (10.543), and Tues/Fri/Sun at 8:30 pm (RMA, Skyten, Acton, W2IXY, CAM)HUNGARYThe N.A. transmission from Budapest is again being broadcast over HAT4 (9.125), daily from 7:30 to as late as 9pm (Skyten, Wells, Flora)IRELANDThe Irish S.W. station is now called "Radio EIRE" and is heard mornings and afternoons on 17.84 mcs., with fair to good signals (Shanks)ITALYThe "American Hour" is now carried over 2R08 (17.82), 2R014 (15.23), 2R015 (11.76), 2R04 (11.81), and 2R03 (9.63), nightly 8:15-10:10pm (Balbi, Skyten)... 2R012 (15.100) heard weakly to 6pm (Skyten)... Program for the Far East now heard 10:35-11:30pm, over 2R08, 2R06 and 2R015 (Balbi)... Unidentified Rome stations heard on 15.31 at 12:30pm, and on 15.26 at 1:15pm.LITHUANIALYR (9.29) has been withdrawn from service. May be used by the Soviet authorities after Lithuania is incorporated into USSR (Tuff, Nord-NETHERLANDSPGJ/PHI have been off the air since the German invasion. (grenNORWAYLKQ (11.735), Oslo, broadcasts to N.A. 4:30-5:30pm, with weak signal. This program is relayed by a strong station on 15.17 (believed to be in Germany) with R9 signals. Station on 15.17 may be LKV (Shanks)U.S.S.R.Unidentified stations heard as follows: on 15.69, at 1:30pm with English program, sign-off at 4:30pm; on 15.16, 5:30-6pm with English program (Skyten, Simpson)... RWG (14.72) heard 7:30-8am with Finnish program (Skyten)... RIA (11.705) heard at 3pm, with news in English in parallel with RV96 (Skyten)... RKI (15.04) heard 11:45am-1:30pm or later (Skyten)... RV96 (15.18), heard 8:55am to 9pm (or later), intermittently, with English broadcasts at 1:30, 3, 4:30pm and 7-8pm for North America (Skyten)**AFRICA**BELGIAN CONGO OQ2AA (15.17, 11.73 and 9.525), "Radio Leo, Leopoldville, has 1 25-watt and two-200 watt transmitters. OQ2RC (6.01), "Congolia", Leopoldville, operates a 100 watt station (Com. Bul.)EGYPTSUZ (13.82) contacts London at 11 a.m.FRENCH MOROCCO"Radio Maroc" (11.94), Rabat, is no longer being heard so is apparently off the air (Skyten)FRENCH SOMALILANDFZE8 (17.28), Djibouti, is believed off the air following the occupation of this city by the Italians.MOZAMBIQUEThe transmission for N.A. made daily 7-8am over CR7BG (15.285) was a failure as no reports were received on it. Transmissions over CR7BE (9.72) are being made at various hours of the day in an effort to reach

North America satisfactorily. Suggestions from listeners as to best hour and freq. will be appreciated (Wilson, Willis, Shanks, Clark)

TUNISIA NEW: "Radio Tunis" (15.65) has been logged between 12 and 1 a.m.; news in French at 12:45am; Tinkling bell signal; men and women announcers.

ASIA AND OCEANIA

(W2IXY)**

AUSTRALIA VLR5 (11.85), and VLW3 (11.83), relay the BBC news at 1:30am (Wells)...VLQ (9.615) is not being used at present (Balbi, Callan)...VLQ5 is now verifying with a white card featuring an outline map of Australia and a kangaroo (Beyer)...NEW: VLQ7 (approx. 17.8), heard testing and signing-off at 8pm with "Cheerio from Sydney", and announced would return to air at 10 p.m. EST (**Skyten)

BRIT. MALAYA NEW: ZHN (7.25), Singapore, operates with power of 500w (Com. Bul.)

BURMA XYZ (6.007) and XZZ (3.488), announce as "Rangoon calling", and verify with a simple red, blue and black card (Shanks, Beyer)

CHINA FFZ (12.05), "The French Station", Shanghai, operates 6-10am, with English program 8-10am; news in English 8-8:20am (Breen, Balbi, Forrest).....XGOK (11.64), occasionally broadcasts Chinese programs 5-7am (Walcott).....XGO? (11.93), Chungking, heard at intervals 6-11am (Balbi)...XGOX/XGOY verify with black and white card having small drawing of a Giant Panda. Slogan is "The Voice of China's Giana Panda", Chungking (Robinson, Beyer)...XMHA, Shanghai, is again on the air and operating in vicinity of 11.87, from 4am on (Walcott)...XOJD, Hankow, hds shifted freq. to 6.101, where it is heard daily 8-8:30 or 9am, with all-Chinese program; woman announcer (**Walcott, Breen)... Unidentified station broadcasts Chinese programs near 8am, on 6.033 (Walcott)... A Shanghai phone on 11.16 works Tokio mornings (Walcott)...XTJ (6.98), may be heard testing or calling Shanghai 8-9am (Breen)

FIJI'S VPD2 (9.535), Suva, operates 12-12:30am (relays BBC French news at 12:15am) and 3:50-4:50:00am (relays BBC English news at 4am) (**Balbi)

F. INDO-CHINA "Radio Saigon" (11.78), still on the air, appears to have acquired the old Boy-Landry xmtr. and is using it for low-power relay mornings on 6.21 mcs, probably with same sked as the 11.78 xmtr. (**Walcott, Simpson)

GUAM KBGCBN (14.24), operated by R.C. Henning, Guam Commercial Pacific Cable Co., Sumay, verified by air-mail with attractive red, white and blue QSL card showing the operator sitting in front of a thatched hut (*Robinson)

HONGKONG ZBW2 (6.09) is operating mornings; news in English at 7am (Honda)

INDIA According to veri's, VUD4, Delhi, is on 11.87; VUM2, Madras, has shifted to 11.83 mcs. VUM2 (11.83) comes on air at 9:30pm in parallel with VUD4 (15.29) and VUD2 (9.59) (Shanks, Skyten, Clark, Nordgren, Simpson, Legge, RS)

IRAN The new 14kW station at Teheran was inaugurated in April. It operates as EQA (15.09) and EQC (9.68), EQC operates 8:45-9:45am. Opens with announcement by man, one stroke on gong, then western type musical program with lady announcer, news in English by man at 9:15am, then more music and announcements by the lady announcer (****Breen, Radiocorriere, Com. Bul.)

IRAQ Station on 9.775, believed to be HNF, broadcasts an all-Arabic program 8-9:30am. Chimes at 9am followed by news in Arabic (Breen)... Bagdad on 7.084, is being heard daily to 2:30 or 3pm. (Jansen-Holland)

JAPAN Overseas broadcast to S.A. now 4:30-5:30pm, over JZK (15.16) and JLS2 (17.845) (Skyten, JBC)

MACAO CRY9 (6.08), now operates Mondays 7:30-10am (Breen)

MANCHUKUO MTCY (now 11.785), heard now 9-10:55am, white MTCY on a new freq. of 9.545 is being heard 9:30-10:55am (**Balbi, Walcott, Shanks)

MIDWAY CRY9 (6.08), now operates Mondays 7:30-10am (Breen)

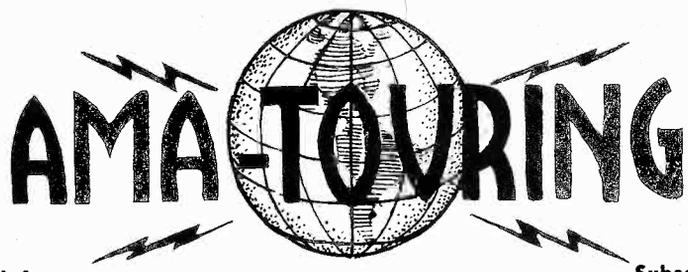
PALMYRA ISL. KG6MV (14.24), portable, ex-K6MV, operated by W.W. Hobdy, C/o The Hawaiian Dredging Co., Palmyra Isl., via Honolulu, heard 2-4am irreg.; worked by W2IXY (**W2IXY, Allen, Roberts, Kandle)

P.I. KZIB (now 9.502 and 6.04), is now on the air with reconstructed transmitters and increased power. Said Starry of Latrobe, Pa., sent in best report yet (Walcott, Starry, Shanks*)...KZRF (15.17) heard near 2am irreg. (RS)

SARAWAK NEW: VQF (6.985), Kuching, 50w, broadcasts short program of news and phonograph recordings on Fridays, starting at 7:10pm. Announcements are in English, Malay and Chinese (**Breen)

SUMATRA YBF3 (10.43), Medan, heard near 9am calling ships in English.

THAILAND HSP5, New Bangkok station on 11.71, relays HSP6 (7.968), daily 8-10 am, ex. Mon. (**Walcott)...HSP6 verified on HS8PJ-HS6PJ card (Legge)



AMA-TOURING

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Devoted exclusively
 to reception on the
 amateur bands.

Subscription: To the
Globe Circler including
AMA-TOURING De-
 partment, \$1.50 per
 year.

REPORTS FOR AMA-TOURING: We invite all our readers to submit regular items for publication. Your report must reach ROGER LEGGE, on or before Aug. 10, for the SEPTEMBER issue; on or before Sept. 11, for the OCTOBER issue, and should be compiled as follows: Double space items and lines; divide items by continents and countries; give frequency and hour heard. Send new or changed QRA's, descriptions of interesting QSL cards or any other items of general interest- Ed.

The FCC ruling of June 5th that American amateurs may no longer contact any foreign stations -- that they must contact only stations in the U.S. and possessions, has resulted in a further curtailment of the amount of amateur dx to be heard. The few remaining stations in Asia (except KA's) and Africa no longer operate at hours favorable for reception in the U.S. All European amateurs are believed to be off, with the possible exception of a few EA's. Many South and Central Americans are still heard, but usually speak only in Spanish now that most of their contacts are with other Latin-American stations. There will undoubtedly be increased fone activity on 40 meters during coming months, with many Latin-Americans moving up from 20 meters in order to more easily contact stations in their own or nearby countries. Ten meter activity during the coming season appears likely to be limited mainly to W, K4-5-6-7, and KA stations. Amateurs in other countries will have so little opportunity of finding 10 meter stations to contact, that very few of them will venture down to ten. Despite this seemingly pessimistic outlook there will be considerable dx and news of interest for those who stay around and dig it out and AMA-TOURING will be on the job to tell you just what there is to hear and how and where to hear it.

20 METER PHONE NORTH AND CENTRAL AMERICA

(E.S.T.)	(E.S.T.)
<u>ALASKA</u> Heard 10pm-7am -- K7BUB (14.24), K7CBF (14.16)(14.23), K7GNN (14.18), K7GSC (14.20), K7HAR (14.10) (XELAC, Soplop, Kriebel)	
<u>ALEUTIAN ISLANDS</u> W6EXE (14.25) portable K7, now at Unimak Island, said cards may be sent to his home QRA, where a friend handles his QSL's (Wells)	
<u>COCOS ISLAND</u> Signed reply card received from Jose Arce of San Jose verifying ZC2OP reception. He states that Captain Wilkins (leader of the treasure hunting expedition to the island) failed to find the treasure. He went to California, returned to Costa Rica with a shark fishing enterprise, failed again and got very ill, then died. The S.S. San Pedro is still in Costa Rican waters lying idle (Kriebel-Penna.)	
<u>COSTA RICA</u> TI2AO (14.03), TI2BF (14.07), TI2CH (14.02), TI2RH (14.13)	
<u>D.R.</u> HI2K (14.065), HI2L (14.13), HI6Q (14.05),	
<u>GUANTANAMO BAY NY4AD</u> (14.216) heard occasionally near 6pm (Kriebel).	
<u>GUATEMALA</u> TG5JG (14.02) at midnite; TG9BA (14.28) at 8PM (Kriebel).	
<u>HAITI</u> HH2HH (14.11), HH2PB (14.30) at 9:30pm, HH2G (14.13)	
<u>HAWAII</u> Heard 8:30pm-7am --- K6IVU (14.21), K6LEJ (14.22), K6PAH (14.2)	
<u>KGPTW</u> (14.23), K6SRZ (14.23), K6SPS (14.17), W7DC/K6 (14.23) (Kriebel, RL)	
<u>ISLE OF PINES</u> CO6XX (14.062) at midnite; sometimes announces as CM6XX (NK).	

NICARAGUA YN1AZ (14.14) at 8pm; YN2LT (14.10) at midnite (Kriebel, RL)
PANAMA K5AX (14.14) heard 6-7pm, is located in the jungles of Panama,
 100 miles from the Canal Zone (RL, Wells)
PUERTO RICO Several Cubans have been bootlegging K4 calls in order to
 work W's.
SALVADOR YS1JA (14.29), YS1JGM (14.04), YS1JMT (14.12), YS1JS (14.14),
 YS1MS (14.105), YS1RM (14.12), YS3PL (14.15) (Tavener, Wells).
VIRGIN ISLANDS KB4FTU (14.20) signed & returned reply card promptly (CLT).

SOUTH AMERICA

Heard 4-12 p.m., usually best 6 to 9 p.m.
ARGENTINA LU1EU (14.10), LU3AD (14.07), LU3BH (14.09), LU5JE (14.08)
BOLIVIA CP1XA (14.14), CP2AC (14.14), CP3AB (14.00), CP6XF (14.045)
 (XELAC)...CP8AI sent Rueda del Oeste card with large red call (RL).
BRAZIL PY1BC (14.13), PY1FN (14.14), PY7AQ (14.17), PY8AB (14.27).
CHILE CE1AA (14.03), CE1AL (14.03), CE2BQ (14.03), CE3AJ (14.10),
 CE3BV (14.10) (RL). CE's must now use only Spanish in their QSO's (Wells).
PARAGUAY ZQ2AA (14.06) heard frequently 8-9pm (Waite, Kriebel, RL).....
 ZP6AB (14.03) R6 and 8pm. QSL'd in 4 months with Rueda cd by registered ml.
URUGUAY CX2AC (14.02), CX2BK (14.12), CX2CO (14.05), CX2CY (14.14)
VENEZUELA On May 27th the Minister for Communications prohibited YV's
 from contacting any foreign amateurs until further notice. No additional
 YV amateur licenses will be issued (Montenegro-Caracas).

EUROPE

LY and ES stations have been off since May. No HA's heard recently, so
 they are believed to be off also.

G2MF was ordered to Norway, but G3OH wrote he saw him at G5NI. G2UT has
 left his old QRA and is doing wireless work for the police. G5TH is think
 ing of coming to the U.S. after the war -- he and his wife visited here
 last year. GM6WD is in the North of Scotland, near Scapa Flow.

ILKS was in the U.S. but was called home -- he left on last trip of the
 Conte di Savoia. F3KW was sick for months but was back in the French Army
 when he wrote in May (W2IXY)

EA5BC, 25 watts, qsl'd. He is an officer in the Spanish Army and was in
 prison several times during the Civil War. Many Spanish amateurs were vic-
 tims during the war, including the President of the Amateur Association.
EA3DQ was a communist operated station with Soviet operators (Soplop)

AFRICA

BELGIAN CONGO OQ5IM (14.028- 28.056- 28.420) verified 10 meter report in 3
 months with white card with large red call. Power is 100 watts. (Legge)
SOUTH AFRICA Effective May 1st, the South African postoffice dept., dis-
 continued the handling of QSL's. Those for foreign countries will not be
 accepted for delivery and those arriving from other countries will be stop-
 ped and disposed of as the censor sees fit. (QST). However some cards are
 getting through, as qsl's from ZS2AH and ZS6DL, postmarked June, were re-
 ceived (RL.)

TANGIER Jose Sierra (EK1AF) is reported to have been executed follow-
 ing the taking over by the Spanish of the International Zone (CO2LA).

ASIA AND OCEANIA

CANTON ISLAND KF6JEG (14.24) heard well near 3am and 7am (Robinson)
CHINA XU8AM (14.10) and XU8ZA (14.06) heard 1-2am. (XELAC)
GUAM KB6ILT (14.19) at 6am. (XELAC). KB6CBN (14.245) qsl'd
 promptly with white card with 1" call, view of the op. sitting in front of
 the grass shack housing the station. He is stationed at Guam for 2 years,
 employed by the cable company, and states that it is an ideal spot for Dx-
 and radio work (Waite, Robinson, Legge).
JAPAN 2-4am --- J2KI (14.06), J2NQ (14.05), J2MC (14.10), J2XA
 (14.03), J5CW (14.13) J6DU (14.18), J7CB (14.07) (XELAC). J2XA, 600 watts,
 sent white card with large blue call (Wells).
JAVA PK2JN, 25 watts, replied in 3 months with red, white and blue
 card with black call. Also sent black and white card showing cartoon draw-
 ings of Laurel and Hardy. (Legge)
JOHNSTON ISLAND K6NYD had planned to use a 75 watt portable on another
 flying trip to Johnston, but the new FCC regulations curtailed that (Wells)
MIDWAY ISLAND KD6 (14.15), 25 watts, heard midnite to 7am. The op. received
 special permission to use just the prefix until his full call was issued.

He is govt. radio op. on the island and said he was from Calif. Gave qra as Bob Ganic, c/o U.S. Engineers, Midway (Wells, Jones).

NETHERLANDS NEW GUINEA H.G. Nicholson (VK4HN), former operator of PK6XX, arrived in the U.S. recently. He was in Tucson, Arizona, for a while, but it is believed he has left there now, since mail sent to his address there was returned undelivered. Does anyone know where he is now?

PALMYRA ISLAND KG6MV (14.18)(14.22)(14.24) heard 2-3am. He is ex-K6MV. Has skeds near 2:30am with K6KRG & W6LXA (Jones, Wells, Robinson, RL)

PHILIPPINE ISLANDS KALAK (14.26), KALCM (14.06), KALHR (14.28) KALKS (14.14) at 7-11am. (Tavener, Wells). W's can QSO only KA's licensed to U.S. citizens. KA's not to be qso'd include KALILZ, KALFH, KALAP. The Philippine Radio Association has been trying to get modification of the FCC ruling, in order to allow Philippine Commonwealth citizens to qso W's. (Wells)... KALRV qsl's with card showing view of the aircraft carrier Langley. The station call belongs to R.F. Vincent, but the usual operator is Walt Constance. He has been in the Navy for 5 years and expects to get out in 1941.... KAK3K replied promptly with card with small red call on views of house and trans mitter. KA7FS verified on KA7EF card (RL)

WAKE ISLAND KC6OKS (14.21), 25 watts, ex-W6OKS, heard 2-4am. Said to send qsl's direct by airmail or send them to his home address, and he will qsl when he returns. (Wells)

ANTARCTICA KC4USA (14.152), West Base, heard 8-10pm, also near 1:30 and 7 a.m. (Kriebel). KC4USB, East Base, contacted W4EPP, when latter was operating on 160 meter phone (QST).

0 METER PHONE

CP2AC (7.08) at 1-2am... CE3CZ (7.22) at 9:45pm... LU6OA (7.24) & LU7BK (7.20) around 12-2am... HCLPC (7.27), HC2CR (7.005), HC2KA (7.275), HCLFG (7.225) at 9:30-11:30pm... HK3CB (7.20), HK3CM (7.13), HK1AJ (7.21), HK5EC (7.18), HK1AJ (7.21), HK5EM (7.24), YV1AQ (7.01), YVAA9 (7.02), TI2VH (7.03), TI7HT (7.08), YN2LT (7.05), YN3AT (7.07), XE3BS (7.29), heard even ings. XE1JH (7.30) is a brigadier general in the Mexican Army... YS3PL (7.08) at 12:30am. QTH believed to be Santiago de Maria (Kriebel)

15 METER PHONE

W7AGU portable K7 (3.94 heard at 4:30 a.m. (Kriebel)

NEW QRA'S

CE3BV - Avenida Ricardo Lyon No.1730, Santiago, Chile
 CO6AJ - Calle Santa Rosa 65, Ranchuelo, Santa Clara, Cuba.
 CPLXA - Henry E.J. Smith, Box 669, La Paz, Boliva.
 CP8AI - Antonio Gerthin M., Box 84, La Paz, Boliva.
 KALCD - Daniel R. Lopez, Camp Dau, Pampanga, Philippine Islands.
 TI2VH - Guillermo Verny H., Avenida Central 23, San Jose, Costa Rica.
 ZQ2AA - Rodolfo Canessee, Colon 881, Asuncion, Paraguay.

QSL S RECEIVED

M.W. Soplop:-- KALJH-LRV-1MN-1BB-1LZ, KB6OCL, PK1OG-2LZ, 3BD-, EA9AI, EA5BC, HA3B, ZS1R, CE2BU, YNU1, ZP5AC (40), K7AZS (75). C. Tavener:-- J8CI, YU7AY, VK9WL, HA3B, OA4AW, XE3AW, K60Th-6KRG-6NYD, CO8MP. N. Kriebel:-- OQ5ZZ, ZC2OP, YS1JGM, KALJH, KALRV, PK3GD, PK3JK, HA6T, YN3AT, YN2FT, LU3AC (40).. Roy Waite:-- KB6CBN, J5CW, KALRV, KALMN, ILJKV, VK2AHA. Wm. Jones:-- PK1OG, G2TR, K6OFW, OA4AW, VP4Th. Jack Wells:-- J2XA, PK2LZ, EA9AI, KALJH, KALRV, HA8C, HA6T, K6PAH. C. Robinson KB6CBN, KA4LH, KALJH, G2TR, PK1OG. R. Legge:-- CP8AI, ZP6AB, ZS6DJ, KA3KK-7FS-7EF LRV-PK2JN-3JK, CR6RC, CX3BH, CX2AC, CE3EU, OQ5IM, K6PAH.

JOTTINGS

IDA congratulates member H.S. Bradley (W8JIW) of Hamilton, N.Y., who has been awarded the first WPR certificate (Worked Puerto Rico) to be issued to an amateur outside of Puerto Rico. The certificate is awarded for making and verifying contacts with 25 K4 stations. A 20 watt xmtr. was used by W8JIW. Member Ralph Gozen has received his ham license and is W2NCG on 3564, 7128, 14282 CW and 23564 fone. Joy Crowder (VK7YL) and Bill Bachelor (VK7JB), well known Tasmania amateurs, were married in January. (VK3MR)... KALCS is in the U.S. now & recently visited W1FH and W1JEG (Wells)

John Koerts (PK3JK), Soerabaia, Java, writes: "I first went on the air in 1926 in Holland as PA0JL. In 1934 I went to Sumatra and worked for several years as PK4JK. In 1938 I came to Soerabaja and have been operating daily on 20 meters, and from time to time on 10 and 40 meters. The main xmtr. is a 75 watt phone affair working on 10-20-40-80 meters. (RL).

SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N- NEW stations; F- Frequency changes; S- Change in sked; J- Stations persisting in hopping about; V- varying in frequency; * See shortwave notes...NEWS IN ENGLISH: the most important English news periods are indicated in list as NEWS. Frequency calibrations by Larsen/Oxrieder Bureau.

DIAL METERS	MEGS.	CALL	STATION	TIME-----EASTERN STANDARD
13.86N	21.65	WLWO	Cincinnati, Ohio	10am-5pm.
13.87	21.63	WRCA	New York City, N.Y.	12 noon-3:30pm to Latin Amer.
13.92S	21.55	GST	London, England	5:40-8:45, 9-11:30am.
19.93	21.54	WPIT	Pittsburgh, Pa.	6-9am.
13.93S	21.53	GSJ	London, England	5:40-8:45, 9-11:30am. (11)
13.96	21.50	WGEA	Schenectady, N.Y.	7-10am to Latin America.
13.97	21.47	GSH	London, England	5:40-8:45am to Africa.
13.99	21.45	DJS	Berlin, Germany	12:05-7:55am to Asia.
15.77	19.02	HS6PJ	Bangkok, Thailand	Mondays 8-10am.
16.18N	18.54		Moscow, U.S.S.R.	1-1:30, 6-6:30am.
16.26	18.45	HBF	Geneva, Switzerland	Fridays 8:45-10:10am to Orient
16.69	17.97	KHE	Kahuku, Hawaii	Sun. 1:45-2, 4:30-5pm, Sat. 8-9pm
16.82	17.845	DJH	Berlin, Germany	12:05-7:50, 8-11am.
16.82S	17.845	JLS2	Tokio, Japan	4:30-5:30, 8-9pm to East N.A.
16.82	17.84	EIRE	Athlone, Ireland	7:30-8:30, 9-10am, 12:30-4:30, 5-
16.83	17.83	LRA5	Buenos Aires, Argen.	Fridays 5-5:30pm. (-6pm.)
16.83S	17.83	WCBX	New York City, N.Y.	7am-2:35pm, Sun. 7am-3:30pm.
16.84	17.82	2R08	Rome, Italy	4:30-4:55, 5-7:15, 7:20-8:45, 8:45-9, 9-9:25, 9:30-10:50, 3- 5:30, 6-7:55, 8:15-10:10pm to NA NEW: 10pm. (13)
16.85S	17.81	GSV	London, England	7:15-8:45, 9-11:30am, 2-3:30pm to NA...NEWS: 8, 11am.
16.86S	17.79	GSG	London, England	5:40-8:45, 9-11:30am.
16.87S	17.78	WNBI	New York City, N.Y.	8am-4, 4-8pm.
16.89	17.76	DJE	Berlin, Germany	12:05-11am.
18.61N	16.09		Moscow, U.S.S.R.	Heard irreg.
19.07N	15.735		Moscow, U.S.S.R.	11-11:15am (English), 11:15- 11:30am, 12:30-12:45pm (German) 12-1am irreg. *
19.17N	15.65		Tunis, Tunisia	1:07-1:15pm (French)
19.35N	15.50		Moscow, U.S.S.R.	8:20-9pm for S.A. and irreg.
19.47S	15.41	RV96	Moscow, U.S.S.R.	1-1:30am (French)
19.49N	15.39		Moscow, U.S.S.R.	11:30am-12:30pm (Arabic)
19.53N	15.36	DZG	Berlin, Germany	10:15-5:00 pm to Europe
19.57	15.33	WGEA	Schenectady, N.Y.	6:30-11:15pm to S.A. (19)
19.57	15.33	KGET	San Francisco, Calif.	9:30-10:30am irreg.
19.58	15.32	DXU	Copenhagen, Denmark	10:30pm-2am; Sat. 7:30pm-2am.
19.59	15.315	YDB	Soerabaja, Java	5:40-7am, 3:50-6pm to NA, 11:55- pm-3:15am...NEWS: 3:50-, 4:45pm
19.60S	15.31	GSP	London, England	1-2:30, 5-7:15, 10:35am-2:35, 3- 5:30am. (5:30pm.)
19.61S	15.30	2R06	Rome, Italy	1:30-2:30, 7:30am-12:30, 9:30- 12:05-11:10am. (11:30pm.)
19.62S	15.29	LRU	Buenos Aires, Argentina	11am-2:45pm; Sun. 11am-3:30pm.
19.62	15.29	VUD4	Delhi, India	3-5pm; Sun. 4-5pm.
19.63	15.28	DJQ	Berlin, Germany	5-10pm; Sat. 5-11pm.
19.64	15.27	WCAB	Philadelphia, Pa.	11:52am-3:30pm, 11:55pm-3:15am.
19.64	15.27	WCBX	New York City, N.Y.	12-1, 4:30-6:30am, 12-4 pm; Sun. 5-7, 10am-2pm.
19.64N	15.27	WLWO	Cincinnati, Ohio	1-4pm ex. Sa/Sun; Sat 4-7:30pm.
19.66S	15.26	GSI	London, England	7:55-8:50pm to S.A.
19.66	15.255	CR7BD	Lourenco, Marques, Mozambique	8:55-9:55pm to N.A.
19.67S	15.25	WRUL	Boston, Mass.	12 noon-3:15pm or later. *
19.68	15.24	YUF	Belgrade, Yugoslavia	11:15-11:40am, 12:15-1:10, 8:15- 10:10pm to NA...NEWS- at 10pm.
19.68	15.24	YUG	Belgrade, Yugoslavia	
19.68	15.24		Paris, France	
19.70S	15.23	2R014	Rome, Italy	

19.70	15.23	DXT	Berlin,Germany	8-9am irreg.
19.72	15.21	WPIT	Pittsburgh,Pa.	9-10am.
19.74S	15.20	DJB	Berlin,Germany	12-3,11:10-11:40am,3:15-3:30, 4:15-4:30,4:50-11pm to S.A.
19.74S	15.195	TAQ	Ankara,Turkey	5:30-8:30,10:30am-4:30pm. (NA
19.75	15.19	XGOX	Szechwan,China	8:30-9:30,10-11,11:30pm-1am to
19.75S	15.19	OIE	Lahti,Finland	6:30am-7pm; 11:30pm-12:30am.ir
19.76S	15.18	RV96	Moscow,U.S.S.R.	1-2,3-4am,1:30-2:30,3-6,7-8pm- to NA (English),8-8:20pm to NA (French),8:20-9pm (Spanish).
19.78	15.17	TGWA	Guatemala,Guatemala	12:45-1:45pm to NA; Sun.1:45-
19.78S	15.17	LKV	Oslo,Norway	4:30-5:30pm to NA. * (5:15pm.
19.79	15.16	JZK	Tokio,Japan	12-1:30am to NA,2-3,7-9:30,10- 11am,2-4,4:30-5:30pm...NEWS:- 6:30-7:30am irreg. (12:03am.
19.79	15.16	DXS	Berlin,Germany	1-4:30,8-9pm to NA,Sun.3am-
19.80	15.155	SBT	Motala,Sweden	4:30-10:30am; 6-9pm. (4:30pm
19.81	15.15	YDC	Bandoeng,Java	Sat.4-4:45pm to N.A.
19.81S	15.15	OAX4R	Lima,Peru	5:40-8:45,9-11:30,11:52am-3:30
19.82S	15.14	GSF	London,England	3:50-6,6:24-9pm.
19.83S	15.13	WRUW/WRUL	Boston,Mass.	5-7pm ex.Sat/Sun,7-9pm ex.Sa/ Sun,9-9:15pm Tues/Wed/Thurs.
19.84	15.12	HVJ	Vatican City,	Sun.7-8:30pm;Tues.8-9,10-10:30 am,Wed.2:30-3pm.
19.85S	15.11	DJI	Berlin,Germany	12:05-2,6:30-9am to NA,10:40am
19.85	15.04	RKI	Moscow,U.S.S.R.	-4:25,4:50-11pm to NA...NEWS:- 6:45,8:15am,6,8:15,10:30pm.
20.07	14.935	PSE	Rio de Janeiro,Brazil	12:30-1:15,3-3:30,607,7-8pm to NA (English),8-8:20pm to NA, (French)...NEWS- at 7pm.
20.55	14.60	JVH	Tokio,Japan	Wed.4-4:30pm,Th/Sat 3-3:30pm
20.64	14.535	HBJ	Geneva,Switzerland	Nightly starting at 10pm. Mon/Wed 8:45-10:10pm to NA,1st Sun.of each month,12:45-2:10a
20.75	14.46	DZH	Berlin,Germany	4:50-10:50pm to C.A.
24.02	12.49	HILN	Trujillo City,D.R.	11:40am-1:40,7:10-9:10pm.
24.08	12.46	HCJB	Quito,Ecuador	7-8:15,11:30am-2:30,6-10pm.
24.70N	12.145		Moscow,U.S.S.R.	6-6:30am (English).
24.94	12.05	FFZ	Shanghai,China	6-10am...NEWS- 8am. *
25.00S	12.00	RNE	Moscow,U.S.S.R.	6-7am,4-7pm,7-8pm to NA. (Eng- lish),8-8:20pm to NA (French), 8:20-9pm (Spanish),9-9:30pm. 6:30-8am,4:50-11pm.
25.12	11.945	CB1180	Santiago,Chile	Believed off air. (noon- *
25.13	11.94	CNR	Rabat,F.Morocco	3:30-4,4:30-5pm, Sun.11:30am-
25.14N	11.935		Berlin,Germany??	4-4:30pm (Spanish) to S.A.
25.17	11.92		Moscow,U.S.S.R.	5:15-6,6-6:30,6:30-8,8-8:55, 9:40-11,11:05-11:25,11:30-1150 am,12-12:30,11:30pm-1am1
25.22C	11.895	XGOZ	Szechwan,China	9:30-11:30pm. *
25.26CS	11.873	VUD4	Delhi,India	2:30-3:30am,1-1:30pm. *
25.27S	11.87	VLQ2	Sydney,Australia	From 4 am. *
25.27V	11.87	XMHA	Shanghai,China	10am-11pm.
25.27	11.87	WPIT	Pittsburgh,Pa.	5:45am-10am; Sun.8-10am.
25.27S	11.87	WLWO	Cincinnati,Ohio	6:24-9:15pm to S.A. (25)
25.30	11.86	GSE	London,England	Intermittent daily.
25.30	11.855	DJP	Berlin,Germany	
25.30	11.855	PRF5	Rio de Janeiro,Brazil	5-8pm. irreg. *
25.32	11.85	VLR5	Melbourne,Australia	3:30-7:15,9pm-2:15am,Sun.3:45- 10:30pm,12 mid.-2:15am.
25.34C	11.84	DHE4A	Prague,Bohemia	6-8:20pm.
25.36F	11.83	VUM2	Madras,India	6:30am-12:30pm,9:30-11:30pm.
25.36	11.83	VLW3	Perth,W.Australia	11pm-2,2-5a,5:30-9:15pm.
25.36	11.83	WCEX	New York City,N.Y.	5:30-9:05pm.
25.37	11.825	CXAL4	Colonia,Uruguay	3:30-9:05pm.
25.38	11.82	XEBR	Hermosillo,Mexico	10am-4, 8-11pm.

31.52	9.517	XEDQ	Guadalajara, Mexico	Noon-4:30, 7pm-12 mid.
31.55S	9.51	GSB	London, England	6:24-9:15, 9:25-11:30, 11:55pm- (8:15am)
31.57	9.505	YUC	Belgrade, Yugoslavia	1-2:30am.
31.57	9.503	XEWW	Mexico D. F., Mexico	7:45am-12:30am.
31.57F	9.502	KZIB	Manila, Philippines	4-10am; 1-2:40am ex. Fri/Sat.
31.58	9.50	OFD	Lahti, Finland	Schedule unknown.
31.63	9.485	CXA5	Montevideo, Uruguay	7-8:20pm irreg.
31.70	9.465	TAP	Ankara, Turkey	Believed to be off air.
31.77	9.445	HCODA	Guayaquil, Ecuador	8:15-10:15pm ex. Sundays.
31.81	9.43	OAX5C	Ica, Peru	7-11:30pm.
31.88F	9.41	COCH	Havana, Cuba	6:40am-12 mid.
32.05	9.36	COBC	Havana, Cuba	7am-12 mid.; Sun. 7am-10:30pm.
32.07SC	9.355	HCETC	Quito, Ecuador	7:45-10:15pm; Sun. 3-5pm.
32.12	9.34	OAX4J	Lima, Peru	Noon-3, 5pm-12 mid. (9:40pm)
32.28	9.295	HI2G	Trujillo City, D.R.	7:10-8:40, 11:40am-2:10, 7:10- 8am-12 mid.; (Sun. to 10pm)
32.43	9.25	COCY	Havana, Cuba	8am-12 mid.; (Sun. to 10pm)
32.44	9.234		Bucharest, Roumania	12:02-7pm.
32.59	9.205	PYA2	Rio de Janeiro, Brazil	5-5:55pm.
32.61	9.200	COCX	Havana, Cuba	8am-12 mid.
32.64V	9.19	HC2ET	Guayaquil, Ecuador	8-10pm; Sun. 8:30-10:30pm.
32.72	9.17	HC1GQ	Quito, Ecuador	Mon/Wed/Sat 9-10:30pm.
32.88S	9.125	HAT4	Budapest, Hungary	6-7:20, 7:30-9pm to N.A.
32.97J	9.10	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm.
33.22	9.03	COBZ	Havana, Cuba	7:45am-12 mid.; Su. 7:45am-1am.
33.48	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.
33.48	8.96	COKG	Santiago, Cuba	6:42am-12 mid. irreg.
33.90V	8.85	CoCQ	Havana, Cuba	6:50am-1am.
34.11	8.795		"Radio Andorra"	3-4pm.
34.48	8.70	COCO	Havana, Cuba	7:30am-12 mid.
34.62	8.665	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-7, 8-8:30pm.
35.38F	8.48	XPSA	Kweichow, China	5:40-11:45am, 2-4:20pm.
36.41	8.24	YNOW	Managua, Nicaragua	To 11pm irreg.
37.27	8.05	XGOK	Canton, China	5-7am irreg.
37.65	7.968	HSP6	Bangkok, Thailand	8-10am ex. Mondays.
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30am.
38.12	7.87	HClRB	Quito, Ecuador	8:30-11:30pm.
38.15	7.865	SUX	Cairo, Egypt	12:30-3:30pm (Arabic)
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.
38.25	7.85	ZAA	Tirana, Albania	6:30-8am (Su. 6:30-8:30am.) 12:20-5pm.
39.16	7.66	YNDG	Leon, Nicaragua	8:30-9:30am ex. Sundays.
39.76N	7.545		Moscow, U.S.S.R.	4-6pm.
39.89S	7.52	RKI	Moscow, U.S.S.R.	1:30-2, 2:30-3pm.
40.05	7.49	EAJ43	Tenerife, Canarias	7-8pm.
40.30	7.445	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm; Su. 9:30-11am.
41.01	7.31	VIG	Port Moresby, Papua	Aug. 10/24 3-5am.
41.13	7.295	JIE	Tyureki, Taiwan	9:05-10:20am.
41.15	7.29	DJI	Berlin, Germany	5-5:30pm (English)
41.19	7.284	YNLIP	Managua, Nicaragua	Sundays 10-11am. (41)
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.
41.44	7.24	DXJ	Berlin, Germany	8-8:15, 8:15-8:30pm (English)
41.49S	7.23	GSW	London, England	5:40-11:30am, 12-6:05, 6:20-8:00 10:45pm-5am.
41.55	7.22	YDX	Medan, Sumatra	6-10:30am; 10:30pm-2am.
41.55	7.22	EAJ9	Malaga, Spain	4-6pm.
42.24	7.10	FO8AA	Papeete, Tahiti	Tues/Fri 11pm-12 mid.
42.96N	6.985	VQF	Kuching, Sarawak	Fridays at 7:10pm. *
43.73J	6.86	YNQP	Managua, Nicaragua	8-9:30pm; Sun. 2-3pm.
44.12	6.80	PZH	Paramaribo, D. Guiana	Tues/Fri 5:40-8:40pm; Su. 8:40- 10:40am; 1st & 3rd Thurs. 6:40- 12:30-3:30pm. (8:40pm)
44.22	6.784	SUR	Cairo, Egypt	7-8pm; Su. 5:20-6:40pm.
44.25	6.78	HIH	San Pedro, D.R.	6:40-10:40pm.
44.38	6.76	YNRS	Managua, Nicaragua	6:40-10:40pm.
44.38	6.76	HI7P	Trujillo City, D.R.	7:10-8:40pm; Sun. 9:40-10:40pm.
44.64	6.72	PMH	Bandoeng, Java	4:30-11am; Sun. 8:30pm-1:30am.

44.81	6.695	TIEP	San Jose, C.R.	7pm-12 mid.
45.06	6.66	HI5G	Trujillo City, D.R.	To 8:40 p.m.
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 5:45-7:45 & Tu. 9:15-11:15p
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm.
45.39	6.61	YNLG	Managua, Nicaragua	1:30-2:30, 6-10:15pm.
45.66	6.57	HHSW	Port-au-Prince, Haiti	1-2, 7-9pm; Sun. 5-8pm.
45.70	6.565	HI5P	Puerto Plata, D.R.	5:40-7:40, 9:40-11:40pm.
45.87	6.54	YNLGG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sundays.
46.15	6.50	HIL	Trujillo City, D.R.	12:30-2, 6-8pm ex. Sun.
46.26	6.485	HILL	Santiago, d.l.c., D.R.	5:30-7:30pm ex. Sundays.
46.37V	6.47	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am, Sun. 10:30am-5:15, 7pm-12 mid.
46.48	6.455	COHI	Santa Clara, Cuba	6:42am-12:15am.
46.66	6.43	HILS	Santiago, D.R.	5:40-9:10pm ex. Sundays.
46.92	6.395	HI9B	Santiago, D.R.	7:40-8:40pm. 7am-3pm.
46.95	6.39	TGQA	Quezaltenango, Guatemala	8-11pm; Sat. 8pm-1am, Sun. -
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.
47.10	6.37	TIWS	Puntarenas, C.R.	4-11pm; Sun. 2-8pm.
47.14	6.365	COCQ	Havana, Cuba	6:50am-lam.
47.20	6.355	IAC	Rome, Italy	3-3:25pm. (49)
47.26	6.348	HRP1	San Pedro Sula, Honduras	6-7:30am, 6-10:30pm.
47.32	6.34	HILX	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am
47.36	6.335	OAXLA	Chiclayo, Peru	7:30-11pm. (am
47.39	6.33	COCW	Havana, Cuba	7:55am-12:15am; Su. 9:55am-12:5
47.54	6.31	HILZ	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm.
47.69	6.29	HLIG	Trujillo City, D.R.	7:10-8:40, 11:40am-2:10, 3:40-
47.96	6.255	CPL2	La Paz, Bolivia	7-9pm. (9:40pm.
48.04	6.245	HILN	Trujillo City, D.R.	11:40am-1:40, 7:10-10:10pm.
48.11	6.235	HRD	La Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.31	6.21		Saigon, F. Indo-China	5:45-9:30, 10-11am, 6:35-7:15, 8-8:45pm. *
48.39	6.20	CP5	La Paz, Bolivia	6:30-11pm.
48.39	6.20	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sa. 6pm-3am, Sun. 3-8pm. For IDA, Sun. 1:30am-2.
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm.
48.47	6.19	HILA	Santiago, D.R.	10:40 am-1:40, 6:40-9:40pm.
48.47	6.19	HVJ	Vatican City,	2-3pm or later except Sundays.
48.51	6.185	TIRCC	San Jose, C.R.	Tu/Thurs/Sat 6-7pm; Suh. 8-10pm.
48.54	6.18	LRA2	Buenos Aires, Argen.	6-9pm; Sat, Sun 7-9pm.
48.54	6.18	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:30am.
48.62	6.17	DXQ	Berlin, Germany	2:40-3:25pm...NEWS- 2:50pm.
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30, 6-11pm.
48.70	6.16	HJCD	Bogota, Colombia	To 11pm.
48.78	6.15	HI3C	La Romana, D.R.	4:55-6 or 8pm.
48.81	6.147	ZRD	Durban, So. Africa	11:45pm-12:50, 3:30-7:30, 9-11:15 am, 11:20am-3:45pm; Sun. 5:30am-9:30am-1, 5-11:30pm. (3:20pm)
48.82	6.145	HJDE	Medellin, Colombia	
48.86	6.14	WPIT	Pittsburgh, Pa.	11pm-lam.
48.86	6.14	KZRF	Manila, Philippines	4:30pm-11am; Sun. 6pm-11am.
48.90	6.135	FK8AA	Noumea, New Caledonia	2:30-3:30am ex. Sundays.
48.90F	6.135	OAX4G	Lima, Peru	6pm-12 mid.
48.93	6.132	COCD	Havana, Cuba	9am-10:30pm, Sun. 5:30-8pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	7am-11:15pm; Sat. 8am-11:30pm.
48.94	6.13	VP3BG	Georgetown, B. Guiana	3:45-7:45pm ex. Su; Su. Noon-11pm
48.94	6.13	VLW	Perth, W. Australia	5:30-7:30am.
48.98	6.125	MTCY	Hsinking, Manchukuo	4-9am.
49.00	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg.
49.02	6.12	WCBX	New York City, N.Y.	11pm-lam to Latin America.
49.04	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am.
49.08	6.115	HIGH	Trujillo City, D.R.	9:40am-5:40pm.
49.14	6.105	KZRC	Cebu, Philippines	4-9am, 5-7, 11pm-12 mid.
49.14	6.105	HJFB	Manizales, Colombia	5:30-10pm ex. Sun.
49.18F	6.101	XOJD	Hankow, China	8-8:30 or 9am. *
49.18	6.100	YUA/YUB	Belgrade, Yugoslavia	12:43-2, 7:55-8:50, 8:55-9:55pm.

49.18S	6.100	WNBI	New York City, N.Y.	9:00pm-12 mid.
49.20	6.097	ZRK	Capetown, So. Africa	12:004pm; Sun. 12-3:20pm.
49.20	6.097	ZRJ	Johannesburg, S. Africa	11:45pm-12:50, 3:15-7, 9-1130
49.23	6.094	ZHJ	Penang, S.S.	5:40-8:40am ex. Sun. (am
49.25	6.09	ZNS2	Nassau, Bahamas	8-9, 1:30-2, 6:30-11pm. ... NEWS-
49.25N	6.09	ZBW2	Hongkong, Hongkong	Operating mornings. * (8:15am
49.25	6.09	XBBF	Jalapa, Mexico	To 9:30pm. (8:15am
49.32	6.083	VQ7LO	Nairobi, Kenya	5:45-6:15, 11:30am-2:30, Tu/Thur-
49.33	6.082	OAX4Z	Lima, Peru	7pm-1:30am.
49.34	6.08	CRY9	Macao, Macao	Mondays 7:30-10am.
49.34S	6.08	CFKX	Vancouver, Canada	11:30pm-3am. *
49.34F	6.08	WLWO	Cincinnati, Ohio	Not in use at present.
49.42	6.07	CFRX	Toronto, Canada	6:45am-12:30am; Sun. 10am-11pm.
49.46	6.065	SBO	Motala, Sweden	4:15-5pm. (Sun. 2:30-4:00am.
49.48	6.063		Tananarive, Madagascar	1:30-1:45, 4-5, 10:30-11:30am;
49.50	6.06	WCAB	Philadelphia, Pa.	Mon/Thurs 10:30pm-1am, Tu/Fri.
				3-5:30, 5:45-11pm, Wed. 3-5:30,
				5:45pm-1am, Sun. 5:45-10pm.
49.55	6.054	HJFA	Pereira, Colombia	9am-noon, 6:30-11pm.
49.56S	6.05	GSA	London, England	5:40-11:30, 12 noon-6:05, 6:20-
				8, 10:45pm-5am.
49.56	6.05	HP5F	Colon, Panama	7-9pm.
49.63	6.045	XETW	Tampico, Mexico	7pm-1am.
49.66S	6.04	WRUL	Boston, Mass.	5-7pm ex. Sat/Sun; Sa. 4-7pm.
49.67	6.04	KZLB	Manila, Philippines	4-10am; 1-2:40am ex. Fri/Sat.
49.71N	6.035	TT7RVM	La Junta Abangares, C.R.	Broadcasts to 11:40pm.
49.73	6.033	HP5B	Panama City, Panama	10:30am-2, 6-10pm.
49.75	6.03	CFVP	Calgary, Alta., Canada	10am-2am.
49.75	6.03	CR7AA	Lourenco Marques, Mozambique	12-1, 4:30-6:30, 12-4pm.
				Sun. 5-7, 10am-1:15pm.
49.75	6.03	XEKW	Morelia, Mexico	Nightly to 11:40pm.
49.76	6.03	RV96	Moscow, U.S.S.R.	Not in use at present.
49.81	6.023	XEUW	Veracruz, Mexico	10pm-1am.
49.83	6.02	DJC	Berlin, Germany	11:30am-4:25pm.
49.83	6.02	HI3U	Santiago, D.R.	7:10-8:55, 11:40am-1:40, 4:40-
49.85	6.018	HJCX	Bogota, Colombia	10:30am-2, 5:30-11:30pm. (6:40pm
				Stuf. 12-1:30, 6-11pm.
49.92	6.01	PRA8	Pernambuco, Brazil	4-9pm.
49.92	6.01	CJCX	Sydney, Nova Scotia	7am-1:30, 8-11:30pm.
49.94	6.007	XYZ	Rangoon, Burma	6:30-10am, 9-11pm; Sa. 9:30-11:30
49.96	6.005	CFCX	Montreal, Canda	8am-1am, Sun. 9am-11:15pm. (pm
49.96	6.005	ZRH	Johannesburg, So. Africa	3:30-4pm ex. Sat/Sun.
49.96	6.005	XEBT	Mexico D.F., Mexico	10am-1:45am.
49.96	6.005	HP5K	Colon, Panama	
50.21	5.975	OAX4P	Huancayo, Peru	9-11pm.
50.25	5.97	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:40pm.
50.25	5.97	VONG	St. John's, Nfld.	8:30am-12:30, 4:30-9:30pm ex.
50.47J	5.945	HH2S	Port-au-Prince, Haiti	6:30-10pm. Sun.
50.51	5.94	OAX2A	Trujillo, Peru	Tues/Wed/Sat/Sun 7-10pm.
50.54	5.936	PJCL	Curacao, D.W.I.	6:36-8:36pm.
50.95	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am ex. Sundays.
51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm; Sun. 6-9:30pm.
51.46	5.83	TIGPH/TIX	San Jose, C.R.	7-10, 10pm-12 mid.
52.26	5.74	YNJAT	Leon, Nicaragua	7-10:20pm.
52.40	5.725	HC1PM	Quito, Ecuador	Mon/Tues/Thurs/Sat 8-10pm.
58.31	5.14	PMY	Bandoeng, Java	5:30am-noon.
59.58V	5.035	YN5RN	Caracas, Venezuela	4-11:30pm; Su. 8:30-11:30am, 3:30-
59.76	5.02	YV4RQ	Puerto Cabello, Venez.	5-9:30pm. (8pm
59.88	5.01	YV5RM	Caracas, Venez.	3:30-10:15pm; Sun. 8am-10:30pm
60.12	4.99	YV3RX	Barquisimeto, Venez.	10am-9:30pm. (60
60.31	4.975	YV1RJ	Coro, Venezuela	5:30-10pm.
60.48	4.96	VUD2	Delhi, India	7:30am-12:30pm.
60.48	4.96	YV5RS	Caracas, Venezuela	4:30-9:30pm or later.
60.57	4.953	YV4RO	Valencia, Venezuela	11am-2, 5-10pm.

Note: For balance of 60 meter band see June Globe Circler.