

# THE GLOBE CIRCLER

COMPLETE GUIDE-BOOK FOR SHORT-WAVE LISTENERS



Otto Zausmer, news analyst and editorial writer for "The Boston Globe," operates his own Listening Post; writes a column, "The War on Shortwaves"

WHEN TO HEAR WAR NEWS IN ENGLISH  
Daily E. W. T.

7:30 a.m.	Melbourne	VLG2	9.54	6:50 p.m.	Moscow		15.11
8:00 a.m.	Tokyo	JZJ	11.80	7:00 p.m.	Tokyo	JZK	15.16
8:30 a.m.	Chungking	XGOY	9.635	7:00 p.m.	Berlin	DJD	11.77
8:50 a.m.	Rome	2RO8	17.82	7:05 p.m.	Madrid	EAQ	9.86
9:00 a.m.	London	GRE	15.39	8:25 p.m.	Lahti	O1X3	11.78
9:30 a.m.	Berlin	DJB	15.20	8:30 p.m.	Rome	2RO4	11.81
11:00 a.m.	Stockholm	SBT	15.15	9:00 p.m.	London	GSC	9.58
12:00 noon	London	GRE	15.39	9:00 p.m.	Bern	HER4	9.538
12:15 p.m.	Rome	2RO8	17.82	10:45 p.m.	London	GSC	9.58
12:30 p.m.	Berlin	DJB	15.20	12:00 mid.	Berlin	DXC2	11.74
5:45 p.m.	London	GRG	11.68	11:15 p.m.	Vichy		9.52
6:45 p.m.	London	GRG	11.68	12:30 a.m.	London	GRS	7.07

INTERNATIONAL DX'ERS ALLIANCE

PUBLISHED MONTHLY


CHARLES A. MORRISON  
EDITORINTERNATIONAL DX'ERS ALLIANCE  
NORMAL, ILL. U. S. A.

SEPTEMBER-OCTOBER, 1942

NUMBER 107

## EDITORIAL

The next Globe Circler will be mailed on about November 1.

Fall is almost here and with it should come vastly improved reception conditions, and a consequent increased incentive to listening. I realize that many of our members are now serving in the armed forces. We are proud of you for the active part that you are privileged to play but there is also a job for us still at home. This job is the important one of supplying various defense agencies with vital shortwave information. This can only be done if each of us at home resolves to do our part by listening in as regularly as possible then forwarding any information received to IDA Headquarters.

One other thing that is absolutely essential for our continued existence is increased revenue. Each of you can help by paying your renewal promptly (whether dx'ing at the moment or not; by recommending the IDA to anyone interested in radio, and by making a small contribution when, and if, possible.- Ed.

## INTERNATIONAL DX'ERS ALLIANCE NOTES

## NEW MEMBERS

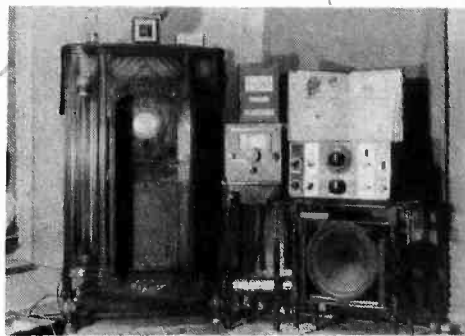
R.K.Cobb, Erie, Penna...Jack M. Thorpe, Detroit, Mich...R.Mark Ward, East Aurora, N.Y. ...Jack Anderson, Parkersburg, W.Va...Sydney W.Fenollosa, Mt.Vernon, N.Y...Robert A.Gronlund, Duluth, Minn...Harold Sibley, St.Clair, Michigan...New Defense Agency receiving GC: Guy C. Hickok, Exec. Office of the Pres., Office for Emergency Management, Coordinator for Inter-American Affairs, New York, NY.

## RENEWALS

Chas.H.Hodge...Charles Lebouef...Billy W. Lyerly...(Contributions): C. H. Hodge; A.B. McKeen; Billy W. Lyerly; Reginald Tibbetts.

## PERSONAL NOTES

IN THE ARMED FORCES-- Fritz Borchardt, & Bob Hetzel of Milwaukee, and Steve Matula, of Chicago, have enlisted in the Signal Corps, and are actually quartered in the same barracks at Camp Swift, Texas. They are in the 95th Signal Corps. . . Pvt.George C. Alich is in the 560th Tech.School Squadron, Scott Field, Ill. . . Theron Colegrove, one of IDA's charter members, is now stationed at The Midland Army Radio School of Kansas City, Mo. . . Jos. Woisich of Washington, Mich., has joined the staff of radio men at the Navy Research Lab., at Washington, D.C...



LOS ANGELES LISTENING POST OF LEADING WEST COAST REGIONAL MONITOR, AUGUST BALBI.

Chas. Hoffman of Cincinnati, is putting in a few weeks at a Tech. School in Atlantic City, N.J..... Lee Mason of Detroit, Mich. has left for the services of Uncle Sam. S.Sgt. Artimovich, formerly at Mitchell Field, N.Y. is now located "somewhere in the Middle East". He says DX is very good there. Alex's amateur call in the States was W2NWP...Eddie Lowe's brother Richard was lost while doing convoy duty with the British Royal Navy. Eddie, a former IDA member in Manchester, England, now resides in Joplin, Mo...Chas. Trezise, and Gail Beyer, of Chicago, Ill, have enlisted in the army; should be in camp by the time you read this..Australian member Raymond E.Simpson, home address 80, Wilga St., Concord West, N.S.W., stationed "somewhere in Australia", would like to hear from his friends in this country..

. . . MISCELLANEOUS NOTES:Everette Payette, Monroe, Mich., had the pleasure of entertaining Lee Mason, Bill Mathers and Mike Younger, all IDA members of Detroit, Mich, the other day...N.Pagenhardt and Grady Ferguson, both of N.C., remind me that Nazi speaker Robt.H.Best, came from S.C., not N.C..D.Reginald Tibbetts, Consulting Communications Engineer, Moraga, Calif., W6ITH, informs us that while all transmit-

ters (amateur) are off the air for the duration, amateur calls and licenses remain in effect...Miss Margot Andrade, who has been studying in the University of Mexico, Mexico City, is back in Greencastle, Indiana, ready to take up her duties as instructor in DePauw University..Jim Wedewer of Dyersville,Iowa, placed 3rd in both BCB and SW contests conducted by the NRC...Mike Fern, until recently a resident of Lihue, Hawaii, is now in California; will work for the OWI...Harold Baxter of Berkeley, Calif., has moved to Detroit...L.D.Brewer, & wife of Phoenix, Arizona, recently visited Aug. Balbi in Los Angeles...Charles Lebouef of Webster, Mass., is doing ARP (Aircraft Watching Service) duty at a nearby observation post...Guy C. Hickok, Executive Office of the President, Office for Emergency Management, Coordinator of Inter-American Affairs, New York City, states "The Globe Circler seems to be the best assembly of information for shortwave listeners available. We see a good many of them here in the office, but none quite so practically useful as yours"...L.J.Krumlinde, Regional Monitor, San Francisco, is using an RME-69 while his HRO is undergoing repairs.

**PRE-INDUCTION COMMUNICATIONS COURSE**

A special pre-induction radio course for those expecting to be in radio work in the armed forces, starts Tues., Sept. 2, Room 637, East Building, Washington Square, New York University, New York City. Subsequently the class will meet Monday, Tuesday, Wednesday, Thursday 6:30-7:50pm. It is open to anyone who has completed High School, including two years of Math. About half the time will be devoted to instruction in the morse code. The main instructor is Dr. H. M. Partridge, while assistants on code instruction include RIXY, IDA member Dorothy Hall, & W2IVL, Albert Smith.

**IDA BOAT TRIP ENJOYABLE**

As expected, the IDA "S/S City of Grand Rapids" boat trip on Lake Michigan, Saturday night, Aug. 29, did not draw a large crowd. However, those able to go, includ-

ing your president, had a very enjoyable evening. The night was hot and sultry; the lake cool and inviting. Some of the crowd congregated in the attractive lounge room to partake of refreshments and to renew acquaintances, while others danced in the main ballroom; others roamed the moonlit decks or lounged lazily in the comfortable deck chairs. The event also served as a farewell for Chas. Trezise, and Gail Beyer of Chicago, who enlisted in the army a couple of days later. Main topics of conversation centered around the activities of the many Chicagoland IDA members who are now in the armed forces. After the boat docked most of the gang took in one or two "nite spots" before disbanding. Those able to attend agreed unaminously that the boat cruise had been very nice.

List cont. from Page 16)

49.96	6.005	CFCX	Montreal, Canada	9am-11:15pm.
49.96	6.005	HP5K	Colon, Panama	3am-2, 6pm-12 mid...News 10:15, 11:15pm
49.88	6.002	ZOY	Accra, Gold Coast	11am-4pm
50.00	6.00	XEBT	Mexico D.F., Mexico	11am-1:30am...News- 8:45pm, 1:20am.
50.18	5.985		Cairo, Egypt	3:30-4:30pm...News 4pm
50.21	5.975	OAX4P	Huancayo, Peru	10pm-12 mid.
50.23	5.972	HClQRX	Quito, Ecuador	7:45-9am; Evenings to 11:45pm
50.25	5.97	VONH	St. John's, Newfoundland	7:45am-2:30, 4:30-8:30pm
50.34N	5.96		South African	Heard 4-5pm. *
50.45	5.947	HH2S	Port-au-Prince, Haiti	7:30-11pm
50.51	5.94	OAX2A	Trujillo, Peru	9pm-12 mid.
50.54F	5.936		Khabarovsk, Siberia	5-9:30am or later.
50.90	5.89	ZNB	Mafeking, Bechuanaland	12:45-2:45, 7:30-8:10am, 11am-5pm.
51.075	5.875	HRN	Tegucigalpa, Honduras	7pm-12:30am (Sun. to 10:45pm)
51.15	5.865	PZX3	Paramaribo, Dutch Guiana	7:40-9:40pm ex. Sa/Su; Sa. 5:40-
52.17	5.75	YNJAT	Leon, Nicaragua	8-11:20pm /8:40pm; Sun. 9:10-11:40am.
52.40	5.725	HClPM	Quito, Ecuador	9-11pm ex. Sun.
59.39S	5.052	WDI	Hicksville, N.Y.	3:45-6am

**60 METER BAND**

60.36	4.97	HJAG	Barranquilla, Colombia	12 noon-12 mid.
60.48	4.96	VUD2	Delhi, India	7:30am-1:30pm
60.67	4.945	HJCW	Bogota, Colombia	7:30-9am, 8:30pm-12 mid.
60.85	4.93	HJAP	Cartagena, Colombia	10am-2:30, 6-11:15pm ex. Sun.
61.29	4.895	HJCH	Bogota, Colombia	12:30-3, 7pm-12 mid.
61.42	4.885	HJDP	Medellin, Colombia	9am-2, 7pm-12 mid.
61.54	4.875	HJFH	Armenia, Colombia	9am-12 noon, 7-11:30pm.
61.67	4.865	PRC5	Belem, Para, Brazil	6-9:05pm (Balance of 61 Meter Band in the JULY G.C.)

# SHORT WAVE NOTES

EDITOR-IN-CHIEF--CHARLES A. MORRISON

ASSOCIATE EDITORS: J. Wilson, August Balbi, Grady Ferguson, R. Juett,  
W.W. Lyerly

PRESS DEADLINES FOR NOVEMBER GLOBE CIRCLER: October 12.

NOVEMBER GLOBE CIRCLER will be mailed on, or about November 2.

## SHORTWAVE NOTES FOR THE GLOBE CIRCLER:

During the present emergency shortwave information has become vitally important: We need plenty of notes. Please submit the items as follows: Use one side page only.. Double space lines...Group items by continents...Be sure to state time used. We are most interested in items pertaining to: NEW stations; changes in frequency or sked; times for news in English, or other languages; times of peak reception for weaker stations or those of timely war interest; identifying signals; any detailed authentic information concerning station schedules; addresses; power etc. It is imperative that any important items reach me by fastest mail.

...FOUR STAR (\*\*\*\*) items denote exceptional merit...Each FIVE STAR (\*\*\*\*\*) ITEM pays its contributor \$2.00 in war stamps...In crediting items the general geographical location of that member--if in North America--is shown as: E-Eastern; C-Central; W-Western. If foreign, the country, or an abbreviation of that country is given.



THE LISTENING POST OF ARTHUR HANKINS, OF LATROBE, PENNA.

## SHORTWAVE NOTES

### NORTH AND CENTRAL AMERICA

E.W.T.

- MYSTERY- An unidentified Latin station on 9.495, badly qrm'ed by c.w. station, is being heard approx. 7:30-9am before XEWW comes on (Juett-C, Lyerly-C)
- CANADA CBRX (6.16) operates 10am-3am; News at 3:30, 6:45 (Picard-W, Kopp-C)
- CFRX (6.07), Toronto, has a splendid news period at 9am (Boord-E)...CFCX on 6.005, is located at 1231 St. Catherine St. W, Montreal (Watson-C)...CJCX (6.01), Sydney, operates 7am-11pm (Kopp-C)
- C.R. TI4NRH (9.74) is heard evenings at irregular times, from as early as 10:30pm to as late as 1am (Hankins, Ferguson-E)...A report to TI4NRH was returned by U.S. Censor No. 1961 (Kopp-C)
- CUBA The address for COBC is "Radio Progreso", Apartado 132, Havana (Young-E)...COBQ (9.22) is apparently off the air (Wedewer-C)...COBC, COCH, COBZ all announce in English at intervals (Wedewer-C)...COHI (6.455), Santa Clara, is back on the air and heard weeknites to 10pm; Sun. to 9pm (Balbi-W, Young-E)...COK is on 11.616 again. Does not broadcast on Sundays (Juett-C, Wilson-Young-E)...COKG (8.955 approx), "Radio General Electric", Santiago de Cuba, is again on the air, and heard daily approx. 3:15-11:30pm; relays CMKW (Kopp-C, Gozen-C)
- CURACAO PJC1 (7.25) usually signs-off near 10:15pm, but also signs-off irregularly from as early as 9:35 to as late as 11:10pm; Dutch news at 9:10pm; all announcements in Dutch; Signs with Netherlands anthem (\*Ferguson, Pagenhard, Payette-E, Juett-C, Balbi, Krumlinde-W)
- D.R. HILN has a strong harmonic on 12.49. Letter to HILN returned by U.S. censor with explanation "mention verification of radio program" (Kopp-C, Crede, Hankins-E) HIT QSL is a photo card of a Dominican scene (NRC)...HISX (11.88) is heard once in a while when DXL7 (11.88b) is weak (Wedewer-C)
- EL SALVADOR NEW: Unidentified Y?? (15.62 approx), heard on Sun. 2:15-3:10pm; all announcements in Spanish (\*Ferguson-E)...NEW: YSY (7.20), heard 8:30pm-12:10am, nightly with Spanish programs (\*\*Ferguson-E, Juett-C)...YSR (6.27), now on the air until 12:30am (Kopp-C)...A report sent to YSR was returned by the U.S. censor (Kopp-C)
- GUATEMALA TGWC is not on 7.26 any longer. This transmitter is now on 1520 kcs., while TGW has moved to 610 kcs. (Johnson-W)
- HAITI HHBM (9.658) operates mornings approx. 6:45-8am. Opens program with playing of "Siboney" as background, and announcements in French, Spanish, and English. Address given as P.O. Box 108, Port-au-Prince. Request reports say



ing they will be answered promptly 100 percent (Pagenhardt-E)...HH3W (10.13), now seems to be operating 12:30-4:45, 7-10:30pm approx. (Ferguson, Young, NP-E)

**MEXICO** XEDQ (6.155), Cia. Radiofonografica, S.A., Guadalajara, has a power of 100w; XEBR (11.82), has a power of 150w; XEBF (6.09), owned by Pedro Coronel Aburto, Jalapa, has a power of 250w; XEKW (6.03), Morelia, has a power of 500w; XECC (6.185), Puebla, has a power of 50w (\*\*Watson-C)

**PANAMA** Report to HP5A, Apartado 954, Panama City, returned by U.S. censor (Becker, Payette-E, Watson-C)...Report to HP5G (11.78), C/o Geo. Williams, P.O. Box 34, Panama City, returned by U.S. Censor; has English news at 1pm (Ferguson, Hankins-C, Cobb, Watson-C)

**U.S.A.** Bert Silen, NBC's Manila correspondent missing since the fall of the P.I., is safe and interned by the Japanese (NBC)...**COMMERCIAL** carrying program material: KES (10.41), Bolinas, carries KWID's programs, 12:15am-11:30am...KET (9.48), Bolinas, carries KGEI's programs 12:15am-12 noon (Wilson, Payette, Hankins-E, Picard, Krumlinde-W)...KWU (15.355), Dixon, Calif., operates 4:30-6:15, 7:45-9:30pm to Far East; KWV (10.84), Dixon, operates 8:30-10:30am (Wilson, Ferguson, -E, Juett-C, Picard-WO)...WCW (18.85) broadcasts WLWO to 7pm (Wilson-E)...WDJ (7.565), Ocean Gate, N.J. broadcasts Voice of America programs 12 mid.-3:30am (Wilson, Ferguson-E, Kopp-C)...WJP (8.81), Hicksville, N.Y., broadcasts Voice of America programs 7-11pm (Juett-C, Pagenhardt-E)...WPJ (11.64), Hicksville, N.Y., broadcasts Voice of America programs to S. Africa, 1-3:30pm (Payette, Ferguson, Boord, Pagenhardt, Davidson-E)...**SHORTWAVE BROADCAST STATIONS:** New sked & frequencies for KGEI: on 11.73, 12:15-3am; on 9.55, 3:25am-12 noon; on 15.33, 7pm-12 mid. KGEI has also been authorized to add freq. of 15.21 (Wilson, Payette, Hankins, -E, Juett, Kopp, Lyerly-C, Balbi, Krumlinde, Picard-W)...KWID's new sked and frequency: on 9.57, 3-5:15, 5:30-7:15, 7:30-9:15, 9:30-11:30am; on 15.29, 6-10, 10:30pm-12:30 12:45-2:45am. Also authorized to add 7.23 mcs; verifies with red, white, blue card (Wilson, Hankins, Ferguson, Becker, Boord, Gozen-E, Cobb, Kopp, Davidson, Lyerly-C, Balbi, Krumlinde, Picard-W)...New sked and frequency for WCDA: On 9.59, 6-8, 9:15-9:45 am to SA; on 17.83, 5-11pm to SA (Hankins, Wilson, Pagenhardt-E, Juett, Kopp-C)...WCDA-WCBX-WCRC have requested a permit to add 9.48 mcs. (FCC)...WGEO is now using its new 100 kw transmitter (GE)...WGEO broadcasts to American troops in Australia and N.Z. daily 6-8am on new freq. of 9.65. Main features include: World news at 6 & 7:45am; Sports news at 7:30am; (Tues/Thurs), the ANZAC hour features messages from N.Z. & Aussie troops in the U.S. to their folks at home (7am) (Ferguson, Hankins, Pagenhardt, Wilson, Becker, Gozen, -E, Kopp, Juett, Lyerly-C)...Revised sked for WLWO: on 15.25, 6-9, 10am-1, 6:30-7:45pm; on 11.71, 1:15-6, 8pm-12 mid.; on 6.08, 12:30-2:45am (Wilson, Hankins-E, Picard, Krumlinde-W)...WRCA operates: on 15.15, 9am-4:45, 4:55-7:45pm; on 9.67, 8pm-1:10, 1:15-4:45am...WNBI operates: on 17.78, 9am-4:45, 4:45-7:45pm; on 11.89, 8pm-1:10am (Wilson, Hankins-E)...Boston broadcasts to Australia, daily 6-10:15am on 11.79 & 9.70 mcs. with Voice of America programs; also broadcasts daily ex. Sat/Sun 12:30-1:30am on 15.35, 11.79 & 6.04 mcs. For other schedule changes see list (Pagenhardt, Hankins-E, Juett, CAM-C Krumlinde, Picard-W)...The Radio Code School of the Air over WRUL has been discontinued at least for the present (Picard-W)

#### SOUTH AMERICA

**ARGENTINA** LSN2 (9.89), relays CBS nightly 9:45-10:15pm; Span. news at 10pm (Lyerly-C, Balbi-W, Ferguson-E)...Com. LSX (10.35), is heard irreg (Ferguson, Young)

**BOLIVIA** CP38 (9.48) & CP2 (6.11), operate 8-10, 11am-2, 4pm-12 mid. according to veri'. Address is Radio Nacional de Bolivia, Casilla Correo # 596, Plaza Venézuela 34, La Paz. Power of CP38 is 5 kw (\*\*Ferguson, Hankins-E, Johnson-W)

**BRAZIL** New commercial, P?? (12.08), Rio de Janeiro, heard with strong signals to 9pm with phone & program service (\*\*Skyten-E)...PSH (10.22), verifies with a blue & white card (Kopp-C)

**COLOMBIA** HJDE (6.145) verifies with a card showing tower of Candaleria Church in left hand corner (NRC)

**CHILE** Commercial CEC (10.67), Compania Internacional Radio Chile", Santiago, broadcasts news and comments in Spanish nightly ex. Sun. 8-8:30pm. Signs-off in Spanish & English (\*Ferguson, Young-E, Juett-C)...CB1180 (11.975), heard from 1:30pm to sign-off at 12 mid.; Spanish news at 10pm; English period Sundays at 3 pm (\*\*Skyten, Ferguson-E)

**DUTCH GULANA** PZC (15.4) heard calling WSH near 6pm. PZX5 not heard recently (GF)

**ECUADOR** HCJB has added a new 1 kw transmitter on 9.96. HCJB now transmits simultaneously on 970 kcs., 4.107 and 7.265 (for Ecuador), 9.96 (for all of So. America), and on 12.455 for overseas reception. HCJB has added the following feature programs: Sundays, 2:45p.m.-British Hour program; 3:30 p.m.-Swedish program for Europe; Tuesdays, 10 p.m.-"Service Stripes" for United Nation's soldiers (Ferguson, Pagenhardt, Payette, Hankins, Wilson, Gozen, Roberts, Cobb-E)

URUGUAY CXA2 (6.005), Montevideo, was virtually destroyed by a tremendous blast on Aug. 5. The station was on U.S. and British black lists for dealing with the enemy (Cobb, Wilson, Hankins-E)

VENEZUELA YV4RO, Valencia, is being heard on 6.13 now (Gozen-E)...YV5RN, has a 'veri' card showing a map of the country with a microphone on Caracas (NRC)

#### AFRICA

ALGERIA TPZ (12.12), TPZ2 (8.96), broadcast French news at 3:30 & 4:30pm (Ferguson-E, Krumlinde-W)

ANGOLA CR6RC (9.47), Luanda, broadcasts 7:30-8:45am & 3:30-5pm; also Sundays 11:30am-1pm (\*Payette, NRC-E)

BELGIAN CONGO "Radio Congo Belge" (17.77, 11.72, 6.28), broadcasts 2:30-4:30pm; opening identification is a tune on a guitar (\*\*Becker, Wilson, Ferguson-E, Balbi)

EGYPT SUV (10.055), Cairo, is being heard 1:45-3pm; and with broadcasts for the networks, between 6:30 and 7:30pm (\*\*Skyten, Ferguson, Becker-E, Wedewer-C)

KENYA VQ7LO (10.73) now opens daily at 11am with a broadcast in Arabic.

MIDDLE CONGO According to a So. African publication "Radio Club", Radio Brazzaville, is now operating simultaneously on 17.74, 12.00, and unknown frequencies in the 36 and 30 meter bands. Power of each transmitter is 500 watts. The sked follows: 2-2:20, 3-3:20, 4-4:20, 6:30-7:20, 8:30-8:50, 9:30-9:50am, 2-3, 4:30-6pm. News in French is broadcast at 2, 3, 4, 7, 8:30, 9:30am, 2:30, 4:30 & 5:30pm (\*\*So. African Good Housekeeping, Becker-E)

MOROCCO CNR (8.035), Rabat, signs-off at 6pm with the "Marseillaise"; broadcasts news in French at 3:30 & 4:30pm, also at 8:30am (\*Becker-E)

SO. RHODESIA Salisbury on 7.31, and 3.70, is relayed by Bulawayo on 3.8 (Cushen)

SO. AFRICA A new So. African on 5.96, is heard 4-5pm; rebroadcasts BBC news at 4:45pm (\*\*Cushen-N.Z.)

#### EUROPE

ENGLAND The African Service of the BBC is beamed to N. A. over GRE (15.39), 11:30am-12:30 (12:45-1pm news in Foreign language), 1:15-3, 3:15-5pm; over GRY (9.60), 4:30-5pm (Wilson-E, Picard-W)...GRS (7.07), carries the BBC Service to NA, 11pm-12:45am, replacing GRJ (Wilson-E, Kopp-C)...See list for other BBC changes.

FRANCE Paris Mondial (11.885), now operates 1:30-5:15pm (Wilson-E, Wedewer-C)...Radio Inconnu (9.75) heard at 1:30am (Cushen-N.Z.)...Vichy (11.845), broadcasts news in French 12:30-12:45am (Balbi-W)...Vichy (11.845), broadcasts a talk in English at 4:15pm; news in English at 4:30pm (Hartle-E, Wedewer, Juett-C)...Vichy (9.52) heard with English program 9:30-10pm (Payette-E)...DXL6 (15.13), Paris, operates approx. 4:30-7am, 7-9:45am to NA, 10:30-11:15am, 12-2:45, 5:50pm-12:15am. DXL7 (11.885), operates 12:15-3am, 5:50pm-12:15am. DXL24 (9.62), operates 12:15-2:30am, 12:15-4:20pm, 5:50pm-12 mid. to NA (Wilson, Payette, Cobb, Hankins-E, Wedewer, Juett-C)

GERMANY "Gustav Siegfried Eins" is now being heard almost entirely on a new frequency of 9.49 mcs. (Wedewer-C)..."Wehrmacht Sender Nord" (10.04), is heard well 6:30-6:50pm; poorly 2:30-2:50pm, with music and messages for German forces in the north (\*\*Young-E)...DJB (15.20) and DXL6 (15.13), broadcast to N.A. 7:00-9:45am; English news at 7:30 & 9:30am. DXT (15.23) operates 7-9:15am; English news at 7:30 & 8:30am, the 7:30am news period same as DJB-DXL6 (Wilson-E)...DJB (15.20), now broadcasts propaganda talks in English 11:30-11:45am, and the reading of the German Official High Command Communique for the press at 12:30pm. The 11:30 period is also carried by DXJ (7.24); the 12:30 one by DXJ and DXM (7.24) (Gozen, Wilson, Hankins, Cobb-E)...DJL (15.11) now operates 8:30-9:45, 11:40am-5:30pm; English news at 8:30 & 9:30am (Wilson-E)...DJQ (15.28) now operates 1-3:30, 4:30am-12 noon, 3:30-3:45, 4-5:45pm; English news at 10:15am (Wilson, Hankins-E)...DXM (7.24) is heard in European service from Berlin, 6:10-6:45pm; English news at 6:30pm (Young-E)...HOLLAND- PCJ (15.22) is not heard broadcasting 7:30-11:45am anymore, but using the call DXL15 it broadcasts 4-5:45, 5:50-10pm (\*Wilson, Young-E)...POLAND- DXH2 (15.12), operates approx. 4:30-11:25am (Wilson, Young-E)...DXR (11.76), broadcasts English news at 3:15pm (Hankins-E)...DXZ (9.57) operates approx. 9am-12 noon, 1:30-4:15, 5:30-5:45, 5:50pm-12:15, 12:30-3am (Wilson-E)

ITALY The 2nd daily Rome transmission to N. A. is now broadcast 11:50am-12:45pm; English news at 12:15 & commentary at 12:25pm, over 2R08 (17.82) (\*Wilson-E)...2R020 (10.33), operates approx. 3-6, 6:30-9:30, 9:45-10:20pm (Wilson-E, Tuff-England)...2R021 (15.047), operates approx. 7-9:50am, 12 noon-3pm, 12:30-1am; English news at 9:15am and 12:15pm (Wilson, Payette, Hankins, Cobb-E, Juett, Wedewer-C)...2R07 (17.77) operates 7-9:50am with 2R021 (Wilson-E)...2R022 (11.95) and 2R021 (15.047) broadcast news in Finnish at 12:30pm (Skyten-E)...Rome does not broadcast a 5:50pm English period, but English news is broadcast at 5pm over 2R06 (15.30), 2R04 (11.81), 2R022 (11.95), 2R020 (10.33), 2R03 (9.63), 2R011

(7.22), 2R023 (6.29) (Wilson-E)  
**NORWAY** The "Norwegian Freedom Station" (10.055) is still being heard irreg. 2:30-2:40pm in Norwegian; also believed to be on 11-11:15am. Frequency seems to vary somewhat; recently has been receiving grm from SUV (10.055) (\*\*Skyten-E)  
**PORTUGAL** Lisbon schedules seem to be an hour later now, probably change back to standard time. The present schedules of Emissora Nacional are now believed to be: 2-6pm over CSW6 (11.04); 6:15-8:05, and 8:20-10pm to NA, over CSW7 (9.735) (\*Wedewer, Juett, Lyerly-C)  
**SPAIN** Malaga on a new frequency of 14.41 mcs., heard at 5pm. The announcer was a woman; the call "Radio Nacional de Espana, Malaga" (Burton-England)  
**SWEDEN** The transmission of SBT (15.155) for N.A., daily 10:56-11:50am, is again being heard with good strength. Carrier goes on at 10:56; Music box interval is repeated over and over 10:59-11am; clock strikes the hour at 11am. First announcement is in Swedish, then same is repeated in English, followed by the news in English which last to about 11:10am, followed by news in Swedish. Transmission is best during first 15 or 20 minutes, then has a tendency to fade. At times there is considerable grm from WRCA (15.15), New York (\*Pagenhardt-E)  
**SWITZERLAND** Since June 10, the Schwarzenburg transmitter (studios in Bern), has been broadcasting with increased power (Kure-C)...HER5 (11.865), Bern, heard 8:00-8:30am, with good signal strength (\*Skyten-E)  
**U.S.S.R.** The following Soviet transmissions have been reported recently:

(Locations of transmitters are indicated as follows: Ky- Kuibyshev; K- Komsomolsk; M- Moscow; S- Sverdlovsk)

7:40-8:20am (English)- 15.18 (M), 15.23 (K)  
 8:00-10:30am (Eng. at 8:45 & 9:45am- 12.02-12.06 mcs.  
 9:00-9:15am (English)- 13.01 (K), 14.400 (K)  
 12 noon-2:15pm approx.- 9.685 (S)  
 3:50-5:10pm- 9.565 (K)  
 4:30-5:00pm (English)- 12.23 (S), 9.685 (S)  
 5:15-5:40pm (English)- 15.23 (K), 15.11 (K), 15.18 (M), 11.855 (M)  
 6-6:30pm- 9.685 (S)  
 6:48-7:20pm- 15.23 (K), 15.11 (K) (English)  
 8:00-8:15pm (English)- 15.23 (K), 15.11 (K), 15.18 (M), 11.855 (M)  
 9:15-9:40pm (English)- 15.23 (K), 15.11 (K), 15.18 (M), 11.855 (M)  
 10:00-11pm- 12.06 (Ky)  
 11:00pm-12:15am- 11.855 (M)  
 11:15pm-1:05am- 12.23 (S), 9.86 (S), 12.19 (M)  
 11:15-11:40pm (English)- 15.23 (K), 15.11 (K), 11.855 (M)  
 12:30-1:45am irr.- 11.855 (M)

2:30am on- 9.565 (K) . . . The powerful Soviet station on 11.855, believed to be Moscow, is being heard approx. 5:15-5:40, 7:30pm intermittently to 1:45am. (\*\*Skyten, Ferguson, Hankins, Becker, Payette, Pagenhardt, Wilson-E, Juett, Wedewer, Kopp, CAM, -C, Balbi, Krumlinde, Picard, Fern-W, Cushen-N.Z.)

**VATICAN CITY** HVJ (15.12) is now broadcasting the English program to North America on Sundays and Thursdays from 9:30-9:50pm; also heard broadcasting in Spanish on Thursday 8:30-8:50pm (\*\*Picard-W, Ferguson-E)

#### ASIA AND OCEANIA

The unidentified Oriental on 6.22 mcs. is still being heard to 10am (Krumlinde)  
**AUSTRALIA** Melbourne is still seeking a suitable frequency and hour for late afternoon or early evening reception in eastern U.S.A. Their latest tests were conducted 6-6:45pm on 11.90 mcs (Bailey)...The 12:25-1:10am transmission to the west coast will soon be broadcast over VLG3 (11.71), in place of VLG6 (\*Balbi-W) ...VLG7 (15.16), now broadcasts approx. 10:10pm-12 mid; English news at 11:30pm (Ferguson, Payette-E)...VLQ5 (9.68), broadcasts 1:55-2:25am to Britain, replacing VLG6 (Balbi-W)...VLR (9.58), Melbourne, broadcasts English news at 5:30 and 8am (Hankins-E)...VLW6 (9.68), Perth, broadcasts the A.B.C. State Program, 7-7:30am; World news in English at 8am; War Review on Saturdays at 8:20am (Pagenhardt-E)  
**CAROLINES** Japanese controlled stations at Parao, in the Palau Group, Caroline Islands, are on the air. Two 10,000 watt transmitters operate on 9.565 and 11.74 mcs., respectively. The schedules of these stations are unknown but the one on 9.565 is heard 3-5 and 8-9:45am irreg.; the one on 11.74 has been heard coming on the air at 5pm with JWV3 (11.72b) broadcasting setting-up exercises(\*\*\*ADXC, Fern-Hawaii, Van Auken-Tex.)

**CHINA** A NEW station XGEI at Kunming, has been heard at 7am testing on 7.05. According to announcements the station also tests on the 49, 31, 25, 19 and 16 meter bands (Cushen-N.Z.)...XGOK (11.65) heard well at 7:15am; woman announcer (Becker-Mich, Juett-Ind)...XGOY (9.635), being heard to as late as 12:20pm irreg. (Picard-W)...XGRI (9.66), Shanghai, broadcasts English news at 8am. Chinese music

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and songs make up most of the program; relays Tokyo irreg. (\*Balbi-W)...XIRS (11.99), Shanghai, is now being heard approx. 4-10am. Chinese period at 4am; Arabic period at 8am, and English news at 9:30am; 4-chime notes for identification (\*\*Fern-Hawaii)...Van Auken of Alpine, Texas, believes the oriental on 6.100 is XOJD, Hankow, China. Broadcast opens at 5am with a march.

FR. INDO CHINA Saigon on 11.775, is heard 6:30-11:30am; has Jap news at 8:30 am; French news at 9am; qrm'ed by HP5G after 9:15am. Broadcasts messages from India nationals in Indo China to their relatives in India, Sundays at 10:30am (\*\*Juett-C, Balbi-W)...Saigon on 6.188 broadcasts time signals at 9am (Krumlinde)

HONG KONG JZHA now on a new frequency of 9.47 mcs., broadcasts an all oriental program with no English features at present (\*\*Balbi-W, Lyerly-C, Fern-Hawaii)

INDIA "Francois Libre D'Orient" verified with a letter from the Free French (Fighting French now) of Bombay, P. O. Box 49, stating that this station is operated in the French Service of All-India Radio (\*\*NZDXC)...NEW: VUD? on 11.79, announcing as "All-India-Radio", is being heard 9:30-10:30pm or later, when it fades out. News in English is given at 10:30pm. Broadcast opens with chimes and clock striking the hour (\*\*Skyten-India)...The "Voice of Free India" is now heard with excellent signals on a new frequency of 15.22, from 10am to 12 noon; English news at 11:30am. The station is also heard on 9.40 from 9:30 to 11:30pm; English news at 10:55pm. Location of this station is believed to be in Germany. A station announcing as "National Congress Radio", is being heard also on 15.22 from 12:15 to 12:45pm, in English and Hindustani. States they are also on 11.47 (not heard) at this time. Axis propaganda is featured. This is likely the same transmitter as the Voice of Free India. Judging from the frequency and hour it is possible the transmitter is DXL15 (PCJ), Huizen, Holland (\*\*Wilson, Young-E, Juett-Becker-C)

JAPAN A Tokyo station on a new frequency of 12.14, was heard testing with music and voice one night only 1-4am. Berne lists a JLV on 12.145 (\*Balbi-W)... A new Jap or Jap-controlled station exactly on 11.72 (not JVW3 on 11.725), is being heard with weak signals near 7am (\*\*Wedewer-C)...Tokyo has a new propaganda stunt consisting of a telephone conversation between two alleged Americans, Charlie & Pat, which they put on at 2:15 or 2:45AM about two times weekly (\*\*Balbi-W)...The Tokyo transmission to Europe, 2:55-6:30pm is broadcast over JZJ (11.80) and JZI (9.535); English news at 3 and 6pm (Tuff-England)...JVW2 (9.675) has not been in use for some time (\*Balbi-W)...JZL (17.785) only broadcasts English news at 4am. JZL is also supposed to be in use from 5 to 11am with JZK-J-I (Balbi-W)...Tokyo has resumed the sending of messages from American prisoners of war in Japan to their relatives at home. These usually come on at about 7:15pm and 2:20am (Balbi-W)

JAVA A Batavia station on 18.135, believed to be PLN, is being heard near 8am and 10-11pm (\*\*NZDXC, Burton-England)

MALAYA The oriental station on approx. 6.100 mcs., is believed to be a Shonan (Singapore) transmitter. This may be the former ZHJ at Penang, which broadcast on 6.095. The station operates 6-10am; English news at 8:45am. It is not in parallel with Shonan on 12.00 (\*\*Balbi-W)...Shonan on 12.00 (moved from 12.2), is being heard 7am to 12:40pm. The features vary from time to time but news in English is usually given at 9:45am; talks in English near 9 and 11:15am. Messages from India nationals in Malaya to relatives in India are broadcast Sundays at 10:15am. During a portion of the program this Shonan station announces itself as the "Indian Independence Broadcaster", and features anti-British, pro-Axis propaganda (\*\*Bakbu-W)

MANCHUKUO Hsinking's programs for domestic reception are now broadcast over A Harbin station on 6:03 mcs. daily to 10:30am. The 6.125 frequency has not been heard for some time. This is a native program only (\*Balbi-W)

PHILIPPINES KZRH's (11.62, 9.64, 6.145), early morning transmission (7am Greater East Asia Time), is heard here starting at 6pm. Involved chimes are sounded for two or three minutes before the transmission commences (\*Fern-Hawaii)...KZRH's transmissions now end at 9am instead of 9:30am (\*Balbi-W, Juett-C)

SYRIA "Radio Levant" (8.035), is still being heard very good until 5pm. A troop session in English for British troops in Syria is broadcast at 12:30pm. (\*\*Cushen-N.Z.)

TURKEY TAP (9.465), Ankara, after an absence of several weeks from the air is again broadcasting its usual daily programs and being heard until 3:45pm, at which time the program concludes with the national anthem. News in English is read at 2:15pm but there is no other English features or announcements. Program pickups for our United States networks are still being relayed over TAP. These usually occur between 6:30 and 7:30pm EWT, although on a recent Sunday evening a pickup for CBS was made at 8:10pm (\*\*Skyten, Ferguson-E)



# 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 . . . . . IMPORTANT English news periods are indicated in list as NEWS.

METERS MEGS. CALL STATION LOCATION TIME EASTERN WAR

## 13 METER BAND

13.86S	21.84	GRZ	London, England	7:30-8, 8:15-9am	
13.92S	21.55	GST	London, England	11:30-11:45am, 12:00-12:15pm	
13.97	21.47	GSH	London, England	6:45-11:15am to Africa	
14.97N	20.04	OPL	Leopoldville, Belgian Congo	6:55-8:15am	*
15.31S	19.59	2R017	Rome, Italy	7-7:30am, 12-12:45pm	
16.23N	18.84	HBH	Bern, Switzerland	Mon/Fri 8:45-10:15am	
16.54N	18.135	PLN	Batavia, Java	8am- , 10-11pm	*

## 16 METER BAND

16.64S	18.03	GRQ	London, England	9:45-11:15, 11:30-11:45am, 12-12:15pm	
16.77S	17.89	GRP	London, England	6:45-11:15, 11:30am-12:30, 3:15-3:30pm	
16.81	17.85		Vichy, France	7:30-8:15am to NA, 8:30-9:15, 10:45-11:30am	
16.81	17.84b	DJH	Berlin, Germany	3:45-11am... News 5:30am	
16.82	17.84		Athlone, Ireland	8-9:30am, 1:30-2:15pm... News 1:45pm	
16.83	17.83	WCDA	New York City, N.Y.	5-11pm. / News 8:50am, 12:15pm.	
16.84S	17.82	2R08	Rome, Italy	7-7:25, 8:30-9, 11:50am-12:45pm to NA.....	
16.84S	17.81	GSV	London, England	1-3, 6:45am-1:30pm / -12:45pm	
16.86S	17.79	GSG	London, England	6:45-7:15, 7:45-8, 9-9:15, 9:45-10:45am, 1230	
16.87S	17.785	JZL	Tokyo, Japan	2:55-4:15, 5-11am... News 4am.	
16.87S	17.78	WNBI	New York City, N.Y.	7-4:45, 4:45-7:45pm.	
16.88S	17.77	2R07	Rome, Italy	7-9:50, 10-11, 11:30am-12:55pm.	
16.88S	17.77		Leopoldville, Belgian Congo	6:55-8:15am, 2:30-4:45pm	*
16.89	17.76	DJE	Berlin, Germany	2:30-7, 7-9:30, 11am-11:45am.	
16.90S	17.75	WRUL	Boston, Mass.	11am-1pm; Sun. 10am-Noon	
16.91N	17.74		Brazzaville, Middle Congo	2-2:20, 3-3:20, 4-4:20, 6:30-7:20, 8:30-8:50, 9:30-9:50am, 2-3, 4:30-6pm.	
16.93F	17.72	LRA5	Buenos Aires, Argentina	Fridays 5-5:30pm	

## 19 METER BAND

18.93	15.85	WCW	Hicksville, N.Y.	9am-7pm	/am
19.42S	15.45	GRD	London, England	1-3, 6:45-9:30am.	/pm, Su. 9:10-1140
19.48	15.40	PZX5	Paramaribo, Dutch Guiana	7:40-9:40pm ex. Sa/Su; Sa. 5:40-8:40	
19.49S	15.39	GRE	London, England	2-4:15, 5:30-5:45, 6:45-11:15, 11:30am-1230 pm to NA, 12:45-1, 1:15-3, 3:15-5pm to NA. News 7, 9, Noon, 2, 4:45pm.	
19.53	15.36	DZG	Berlin, Germany	1-3:15am, 12:30-2pm	
19.53N	15.355	KWU	Dixon, Calif.	4:30-6:15, 7:45-9:30pm to Far East	*
19.54S	15.35	WRUW	Boston, Mass.	12:30-1:30am ex. Su, 11am-1, 1:15-6:30pm ex.	
19.56	15.34	DJR	Berlin, Germany	1am-12 noon to Asia... News 5:30am. /Sun.	
19.57	15.33	WGEA	Schenectady, N.Y.	9am-6:30pm	
19.57	15.33	KGFI	San Francisco, Calif.	7pm-12 mid.	
19.58S	15.32	DXU	Berlin, Germany	9-9:30am.	
19.60S	15.31	GSP	London, England	1-4:15, 5:45-6, 7-8:30, 9-9:30, 9:45-10:45am.	
19.61S	15.30	2R06	Rome, Italy	12:30-1:30am to NA, 3-3:30, 7-10:30am intermittently, 12:50-2:35, 2:40-3:50, 5-5:40, 830-8:40pm... News 1am, 2:50, 5, 8:30pm.	
19.62S	15.29	KWID	San Francisco, Calif.	6:20-10, 10:30pm-2:45am.	*
19.62	15.29	VUD2	Delhi, India	2:30-4:55am.	
19.62	15.29	LRU	Buenos Aires, Argentina	7:15-8:15am.	
19.63S	15.28	DJQ	Berlin, Germany	1-3:30, 4:20am-12 noon, 3:30-3:45, 4-5:45pm.	
19.64	15.27	WCBX	New York City, N.Y.	6am-3:45, 3:47-11pm. / News 10:15 am.	
19.66S	15.26	GSI	London, England	6:45-11:15, 11:30am-5pm... News 7, 9, 12, 2	
19.67S	15.25	WLWO	Cincinnati, Ohio	6-9, 10am-1, 6:30-7:45pm. /4:45pm	
19.67	15.247	CR7BD	Lourenco Marques, Mozambique	1-2, 5:30-8am, 1-5 (Th/Fr/Sat- to 5:15pm); Sun. 5:30-8, 11am-3pm.	
19.69	15.24		Vichy, France	9:30-10:30, 11:45am-12:45, 1-1:45, 2-2:45pm.	
19.70S	15.23		Komsomolsk, U.S.S.R.	7:40-8:20am, 5:15-5:40, 6:48-7:30, 8-8:15, 9:15-9:40, 11:15-11:40pm (All English)	
19.70S	15.23	DXT	Berlin, Germany	7-9:15am... News 7:30, 8:30am.	*
19.70	15.23	VLG6	Melbourne, Australia	12:25-1:10am to W.N.A., 1:15-1:45, 2:55-3:25am... News 12:30, 1:15, 2:55am.	
19.71S	15.22	DXL15	Huizen, Holland	4-5:45, 5:50-10pm.	*

	19.71F	15.22		Voice of Free India	10am-12 noon...News- 11:30am.	*
	19.71N	15.22		National Congress Radio	12:15-12:45pm.	*
H	19.72	15.21	WBOS	Boston, Mass.	9am-4:40pm	
H	19.72S	15.20	DJB	Berlin, Germany	7-9:45am to NA, 11am-12, 12:30-12:45, 5:50pm-12 mid. to NA...News 7:30, 9:30am, 12:30, 7, 8, 9, 10, 11pm.	
	19.75	15.19	OIX4	Lahti, Finland	10:55am-7:05pm...News 12:45, 2:15pm.	
	19.76	15.18	GSO	London, England	12:30-2:45pm (Africaans) /8:15pm.	
H	19.76S	15.18	RV96	Moscow, U.S.S.R.	12-2, 7:40-8:20am, 5:15-5:40, 6:48-7:20, 8-	
	19.77S	15.175	002AA	Leopoldville, Bel. Congo	6:55-8:15am, 2:30-4:45pm	*
	19.78	15.17	XGOX	Chungking, China	6:30-8:20pm.	
H	19.78	15.17	TGWA	Guatemala, Guatemala	1:45-2:55pm to NA; Sun. 1:45-6:15pm.	
	19.78S	15.165	PRE9	Fortaleza, Ceara, Brazil	9am-1pm; Nights to 11:30pm irreg. *	
	19.78	15.165	ZPA6	Encarnacion, Paraguay	6-9pm or later. / News 9am, 5:45, 11:30p	
H	19.79S	15.16	VLG7	Melbourne, Australia	9-9:15am, 5:45-6:15, 10:10pm-12 mid.....	
	19.79N	15.16	XEWW	Mexico City, Mexico	10am-4 or 4:30pm irreg.	
H	19.79S	15.16	JZK	Tokyo, Japan	5am-12 noon, 6:55-11pm to E.NA, 11:25pm-2:30am to W.NA...News, 8, 10:30am, 7, 10:10, 11:30pm, 2am. /9pm.	
	19.80S	15.155	SBT	Stockholm, Sweden	10:56-11:50am, 9-10pm to NA...News 11am,	
H	19.81S	15.15	WRCA	New York City, N.Y.	9am-4:45, 4:55-7:45pm.	
H	19.82S	15.14	GSF	London, England	1-4:15, 6:45-11:15, 11:30am-4:15, 4:30-5, 5:15-6:15pm...News- 7, 9, am, Noon, 2, 4:45pm	
	19.83S	15.13	DXL6	Paris, France	4:30-7, 7-9:45am to NA, 10:30am-11:15, 12 noon-2:45, 5:50pm-12:15am...News 7:30, 2:30-5pm /9:30am.	
H	2000 19.84 X	15.12		Athlone, Ireland	2:30-5pm	
	19.84S	15.12	HVJ	Vatican City	10:30am-1pm irreg.; Sun/Thurs 8:30-8:50, 9:30-9:50pm to NA.	
	19.84N	15.12	DXH2	Warsaw-Berlin	4:30am-11:25am.	
H	19.85S	15.11		Komsomolsk, U.S.S.R.	7:40-8:20am, 5:15-5:40, 6:48-7:30, 8-8:15, 9:15-9:40, 11:15-11:40pm (English)	
H	19.85S	15.11	DJL	Berlin, Germany	8:30-9:45, 11:40am-5:30pm...News 8:30,	
	19.86	15.10	EPR	Teheran, Iran	4:30-6am (Fri. 4-7am) /9:30am	
	19.89N	15.08		Deutscher Volkssender	10-10:20am irreg. /News 9:15a, 12:15p	
	19.94S	15.047	ZRO21	Rome, Italy	12:30-1, 7-7:30, 8:30-9:50, 11:30am-3pm....	

	20.07	14.935	PSE	Rio de Janeiro, Brazil	Thurs. 4-4:30pm (Italian), 8-8:30pm.	
	20.48	14.68		Ponta Delgada, Azores	2-3pm.	
H	20.73	14.47	WDO	Ocean Gate, N.J.	8am-7pm. /mid.	
	20.75S	14.46	DZH	Berlin, Germany	4:30-6:30, 11am-Noon, 3:30-4:15, 5:50pm-12	
	20.82F	14.41		Malaga, Spain	Heard at 5pm.	
	20.83S	14.40		Komsomolsk, U.S.S.R.	9-9:15am (English) *	
	23.06S	13.01		Komsomolsk, U.S.S.R.	9-9:15am (English) *	
	23.88	12.83	CNR	Rabat, Morocco	8-9am (French) /pm) 6:00-11:00pm.	
H	24.09S	12.455	HCJB	Quito, Ecuador	7:45-9:30am, 12:30-3:30 (Sun. 8am-5:30	
	24.19S	12.40		Radio Andorra	8-11am, 2-7pm.	
	24.53S	12.23		Sverdlovsk, U.S.S.R.	11:15pm-1:30am, 4:30-5pm (Eng.) *	
H	24.61S	12.19		Moscow, U.S.S.R.	8:30-9:30, 11:30am-12:30, 12:45-6, 11:15pm-	
	24.73	12.13	DZE	Berlin, Germany	10am-3:45, 3:55-5:45, 5:50pm-12:15am /130am	
H	24.75 X	12.12	TPZ	Alger, Algeria	7:15-8am, 2-6pm...French news 3:30, 4:30pm	
	24.77	12.115	ZNR	Aden, Aden	12 noon-1:30pm. /4, 6:30-10:45 p.m.	
	24.80S	12.095	GRF	London, England	3-8:30, 8:45-11:45am, 12:15-1:45, 2-3, 3:15-	
	24.88	12.06	FFZ	Shanghai, China	12-2, 4:30-10am...News 8:15am. /9:45am.	
	24.88	12.06		Kuibyshev, U.S.S.R.	1:45-2:30, 3:30-5, 8-10:30am...News 8:45,	
H	24.92S	12.04	GRV	London, England	1:45-2:30, 3:15-5, 8:15-9:15, 11:30am-12:40 12:45-4:45pm.	

25 METER BAND

S	25.00N	12.00		Brazzaville, Middle Congo	2-2:20, 3-3:20, 4-4:20, 6:30-7:20, 8:30-8:50, 9:30-9:50, 2-3, 4:30-6pm. *	
	25.00F	12.00		Shonan, Malaya	7am-12:40pm...News 9:45am. *	
	25.02S	11.99	XIRS	Shanghai, China	4-10am...News- 7:15, 9:30am. *	
H	25.04S	11.975	CB1180	Santiago, Chile	7:30-10am, 1:30-12 mid. *	
H	25.05	11.97	FZI	Brazzaville, Middle Congo	2-2:20, 9:30-10am, 3:45-5:30, 11pm-12 mid. to NA...News 3:45, 11:45pm.	
	25.08	11.96	CB1190	Santiago, Chile	Heard from 6:15pm on.	
H	25.10S	11.95	ZRO22	Rome, Italy	12:30-1, 7-7:30, 8:30-9, 11:30am-2, 4:20-5:40, 8:30pm-12 mid. to NA...News - 5, 8:30, 10:30pm.	

25.18	11.915	Anti-Fascist	9-9:30,11-11:30am,3-3:30,5-5:30,7-7:30,
25.21	11.90	TIJMP San Jose,C.R.	8-9:30am; nites to 1am/9-9:30pm,1-130am.
25.21	11.90	XGOY Chungking,China	6-6:55,7-7:30,11:35-11:55am,12-1,3-6pm..
25.23	11.89	WNBI New York City,N.Y	8pm-1:10am. /News- 6am, 5:30pm.
25.23S	11.865	Paris Mondial,France	1:30-5:15pm.
25.24S	11.865	DXL7 Paris,France	12:15-3am, 5:50pm-12:15am
25.25	11.88	VLR3 Melbourne,Australia	9pm-3:30am...News 2:15am.
25.25	11.88	HI3X Trujillo City,D.R.	Mon.6:10-9:30pm; Tu.6:10-10:30pm; Wed. & Fri.6:10-9:10pm; Th.6:10-9pm; Sa.6:10-8:15pm. /8:15pm.
25.25	11.88	VLG5 Melbourne,Australia	5-7am.
25.27	11.87	VLQ2 Sydney,Australia	6:50-7:15,11-11:45am to W.NA...News-11am
25.27	11.87	WBOS Boston,Mass.	5pm-1:10am (Sun.to 1am)/News- 9,10pm.
25.28S	11.865	HER5 Bern,Switzerland	8-8:30am, 6:45-8:10,8:45-10:15pm to NA ex.
25.29	11.86	XMHA Shanghai,China	4-11am,8-8:30pm...News 6:30,9,10am. /Sat
25.29S	11.86	GSE London,England	11-11:15am, 1:30-2:15,2:30-4:15pm.
25.30	11.855	DJP Berlin,Germany	1-3:15,7am-4:20,5:50pm-12 mid.
25.30N	11.855	Moscow,U.S.S.R.	5:15-5:40, 7:30pm intermittently to 1:45am ...English news: 5:15,8,9:15,11:15pm. 12:30-12:45,3:45-4:30am; 3-3:45,4-4:45, 5-6:30,6:55-9:15pm. /5-5:45,6-6:45pm.
25.33	11.845	Vichy,France	12:30-12:45,3:45-4:30am; 3-3:45,4-4:45, 5-6:30,6:55-9:15pm. /5-5:45,6-6:45pm.
25.35	11.84	DHE4A Prague,Bohemia	5-6:30,6:55-9:15pm. /5-5:45,6-6:45pm.
25.36	11.83	VUD4 Delhi,India	2:30-4:55,7am-1:35,10pm-1am.
25.36	11.83	VLW3 Perth,W.Australia	2-6:45am
25.36	11.83	WCRC New York City,N.Y.	6am-3:30,3:47-11pm.
25.37	11.825	CXAL4 Colonia,Uruguay	4:30-10:05pm
25.37	11.825	JVZ2 Tokyo,Japan	11pm-11am intermittently /3:15-4:45pm
25.38S	11.82	GSN London,England	6:45-8:30,8:45-11:45am,12:15-1,1:15-3, 9am-1am.
25.38	11.82	XEBR Hermosillo,Mexico	9am-1am.
25.40S	11.81	2RO4 Rome,Italy	12:30-1:30am to W.NA; 3-3:30,7-7:20am, 12:50-2:35,2:40-3:50,4:20-5:40, 8:30pm-12 mid. to NA...News 1am,5,8:30,10:30pm. 7am-8pm approx.
25.42S	11.80	DJZ Berlin,Germany	7am-8pm approx.
25.42	11.80	JZJ Tokyo,Japan	2:55-5, 5-9:45,10am-2:30,2:55-6:30,6:55-11pm to E.NA; 11:25pm-2:30am to W.NA... News- 4,5,8,11am,2,3,6,7,10:10,11:30pm,2 12:30-1:30,6-10:15am,1:15-6:30pm ex. /am Sun; Sun. 10am-12 noon,2-9:15pm. *
25.45S	11.79	WRUL Boston,Mass.	9:30-10:30pm or later...News- 10:30pm. *
25.45N	11.79	VU-- India	10:55am-7:05,8:25-8:50,11:05-11:50pm. 12:15-1:30am...News- 12:45,2:10,6:10, 8:25,11:10pm.
25.46	11.785	OIX3 Lahti,Finland	3-3:30pm (Serb),7-7:10pm.
25.46	11.785	Jugoslav undercover station	3-3:30pm (Serb),7-7:10pm.
25.47	11.78	HP5G Panama City,Panama	9:15-10am,12:30-3,6-11pm...News 9:35am,
25.48	11.775	MTCY Hsinking,Manchukuo	1:30-3am to NA...News 1:30am /1,9:45pm.
25.48S	11.775	Saigon,Fr.Indo China	6-10:30,11-11:30am,12-12:30,7:45-8:20 pm... News 7:30,11am, 12 noon
25.49	11.77	DJD Berlin,Germany	1-3:15,7am-noon, 5:50pm-12 mid. to NA... News 7,8,9,10,11pm.
25.50	11.765	FYD8 Sao Paulo,Brazil	5:30-10:15pm. /3:15pm
25.51	11.76	DXR Warsaw-Berlin	1-2:30,11:40am-5:30pm to Africa...News-
25.51	11.76	VLR8 Melbourne,Australia	3:30-7:15pm, 9-9:15am...News 9am.
25.53S	11.76	GSD London,England	1-1:45am to W.NA, 3-4:15,6:45-11:15,1130 am-5, 5:15pm-12:45am to NA...News 4,7,9, 12 noon,2,4:45,5:45,6:45,9,10:45pm,12:30
25.54F	11.743	CB1174 Santiago,Chile	8-9am, 7:30pm-12:30am. /am
25.55S	11.74	HVJ Vatican City,	Daily 2-4am irreg.
25.55	11.74	Parao,Palau Group,	Caroline Islands 3-9am,5pm- *
25.55	11.74	COCY Havana,Cuba	6:30am- 2:15am.
25.55	11.74	DXC2 Berlin,Germany	1:30-3:15,4:30-12 noon,12:30-5,5:50pm-1:30am to NA...News 7,8,9,10,11pm,12,1am 6:30-11pm ex. Sundays.
25.58S	11.73	WRUW Boston,Mass.	6:30-11pm ex. Sundays.
25.58N	11.73	KGEI San Francisco,Calif.	12:15-3am.
25.58	11.73	Leopoldville,Bel.Congo	2:55-3:45pm with OPM
25.59S	11.725	JVW3 Tokyo,Japan	11pm-9am, 5pm- *
25.60	11.721	ZPA2 Asuncion,Paraguay	Relays ZP10 7-11pm.
25.60S	11.72	Leopoldville,Bel.Congo	6:55-8:15am, 2:30-4:45pm. *
25.60	11.715	HSP5 Bangkok,Thailand	4-11am,7:45-8:30pm...News 4am.
25.62	11.71	YSM San Salvador,El Salvador	2-3, 8-10:30pm
25.62	11.71	VLG3 Melbourne,Australia	1:55-2:40,5:30-6:30am.

H	25.62	11.71	WLWO Cincinnati, Ohio	1:15-6,8pm-12 mid.	
H	25.63	X11.705	CXAL9 Montevideo, Uruguay	7-8am, 7:30-11pm.	/4am-5:35pm.
	25.63	11.705	SBP Motala, Sweden	2-5:15, 5:20-5:35pm, 9-10pm to NA; Sun.	
H	7.50	25.63	11.705	CBFY Montreal, Canada	6:55am-12 mid...News 7:30, 8, 9am.
	5.00	25.64	11.70	HP5A Panama City, Panama	9:15-11:40am, 9:10pm-1am; Sun. 9am-1am.
	25.64	11.70	IQY Rome, Italy	3:50-4:30pm.	/...News 10:40 p.m.
	25.64	11.70	CB1170 Santiago, Chile	8-10pm.	/5:45, 6:45, 9:00 p.m.
H	25.68S	11.68	GRG London, England	3-5, 5:15-9:40pm to NA...News- 4:45,	
	25.68	11.68	XGRS Shanghai, China	3:45-11am, 7pm (Sun. 6pm)-2am...News 12:30,	
	25.75	11.65	XGOK Canton, China	2:15, 6:15, 6:45, 7:30am, 6:45pm.	
	25.77	11.64	WPJ Hicksville, N.Y.	5-9:30am.	
H	25.83S	11.628	ZKRH Manila, Philippines	1-3:30pm	/8:30am, 6:30 p.m.
H	25.84S	11.616	COK Havana, Cuba	12 mid.-9am, 6pm-12 mid...News 4:45,	
	25.86	11.60	Undercover	12 noon-12 mid.; Sun. 1-7pm...News 1, 3:30,	
				4:15-4:25pm in Roumanian	/7, 10pm.
	26.43	11.35	Undercover	2:30-2:40pm in Serbo-Croat	
	27.17S	11.04	CSW6 Lisbon, Portugal	2-6pm.	
	27.96	10.73	VQZLO Nairobi, Kenya	11am-12:50pm & Mon. 1:15-1:50pm.	*
H	28.12	10.67	CEC Santiago, Chile	8-8:30pm (Spanish)	*
	28.30	10.60	ZIK2 Belize, Br. Honduras	Tues/Thurs/Sat. 2:30-3, 9:30-9:50pm.	
H	28.45	10.543	DZD Berlin, Germany	2:30-3:15, 4:30-5, 5:50pm-12 mid. to NA,	
				12:30-12:45am...News 2:30, 4:30, 7, 8, 10,	
	28.49	10.53	JTB Taihoku, Taiwan	10-10:50am.	/11pm, 1230am.
H	28.82S	10.41	KES Bolinas, Calif.	12:15am-11:30am.	
	3.00	28.85	10.40	YSPA San Salvador, El Salvador	9:10-10am, 7:30pm-12:30am.
H	28.99	10.35	Station Debunk	8:30-9pm	*
H	29.04S	10.33	2R020 Rome, Italy	3-5:40, 6:30-9:30, 9:45-10:20pm...News 5pm	
H	29.15	10.29	DZC Berlin, Germany	4-5:45, 5:50pm-12:15am.	
	29.24	10.24	XGAP Peiping, China	5:45am-12:15 or 12:30pm.	/Sun. 9:15-9:40
H	29.35S	10.22	PSH Rio de Janeiro, Brazil	7-8:15pm ex. Sun; Mon/Wed/Sat 9-9:30pm	
	29.44	10.19	Tokyo, Japan	4:45-8:55am.	
	29.59	10.14	OPM Leopoldville, Bel. Congo	2:55-3:45pm.	/pm
H	5.00	29.62S	10.13	HH3W Port-au-Prince, Haiti	12:30-4:45, 7-10:30pm; Sun. 1-5, 7-10:30
	29.81	10.065	HLA2 Hsinking, Manchukuo	1:30-3am to NA...News 1:30, 2:30am.	
H	1.0000	29.84S	10.055	SUV Cairo, Egypt	Relays Cairo programs to American net-
				works 5:30-7:30pm, also on 1:45-3pm.	*
	29.84	10.055	Norway Freedom Station	2:30-2:40pm	*
	29.88	10.04	Kuibyshev, U.S.S.R.	11:30pm-3:30, 7-10:50am...News 1, 8:45am.	
	29.88	10.04	Sender Wehrmacht Nord	2:30-2:50, 6:30-6:50pm.	*
H	29.97	10.01	WJQ Hicksville, N.Y.	6-10:15am.	/pm, 6:00-11:00 p.m.
H	1.000	30.12S	9.958	HCJB Quito, Ecuador	7:45-9:30am, 12:30-3:30, (Sun. 8am-5:30
		30.33N	9.89	LSN2 Buenos Aires, Argentina	Relays CBS 9:45-10:15pm.
H	30.43	X9.86	EAQ Madrid, Spain	1-2, 7-8pm to NA...News 1:15, 7pm.	
	30.43	9.86	Sverdlovsk, U.S.S.R.	11:15pm-1:05am.	
H	30.48	9.843	CR7BE Lourenco Marques, Mozambique	1-2, 5:30-8am, 3-5 (Th/Fr/Sat.	
				to 5:15pm; Sun. 5:30-8, 11am-3pm...News-	
H	30.49	9.83	VIS Sydney, Australia	1:55, 6:55am, 1:12, 4pm ex. Sun; Su. 6:55am.	
H	30.51	X9.833	COCM Havana, Cuba	Relays programs to U.S. networks	
H	30.54	9.825	GRH London, England	9am-1am; Sun. 9am-12 mid.	
				5:15pm-12:45am to C.A. & W.I...News 5:45,	
				6:45, 9:00, 10:45pm, 12:30am.	
H	30.64S	9.79	2R018 Rome, Italy	1-4, 6:30-9:30, 9:45-10:20pm.	
	30.75	9.755	ZRO Durban, So. Africa	4:30-8, 10am-5pm; Sun. 4:50am-5pm.	
	30.77S	9.75	Radio Inconnu	1:30-2, 6:30-6:55am, 3:30-3:50pm.	
H	5.00	30.80	9.74	TI4NRH Heredia, C.R.	8-9am; Tu/Th/Sat 11:30pm-12:30am approx.
H	30.82S	9.735	CSW7 Lisbon, Portugal	6:15-8:15, 8:25-10pm to NA.	*
H	30.82	X9.73	CB970 Valparaiso, Chile	7:30-9am, 7:15pm-12:30am.	
	30.86	9.72	XGOA Chungking, China	7am-1, 3-5pm...News 8:30, 10, 11am.	
	30.88S	9.715	OAX4K Lima, Peru	8pm-12:20am.	
H	30.92	X9.705	Fort-de-France, Martinique	12:30-1:40, 6:30-9pm.	
H	30.93S	X9.70	WRUW Boston, Mass.	6-10:15am, 6:30-11pm ex. Sun; Sun. 7-9:15pm	
	30.96	9.69	JTB3 Taihoku, Taiwan	8:30-10am...News 8:30am.	
H	30.96S	9.69	GRX London, England	2-5:45, 6:45-8:30, 8:45-11:45am, 12:15-1,	
				1:15-4:30, 5-5:30, 6:30-10:40pm.	
H	1.0000	30.96S	9.685	TGWA Guatemala, Guatemala	9:45pm-12:45am ex. Sun; Sun. 7pm-12:45am.
	30.96	9.688	LRAL Buenos Aires, Argentina	11:30am-2, 3:30-4:30, 5-10pm.	
	30.98N	9.685	Sverdlovsk, U.S.S.R.	12 noon-2:15pm, 4:30-5, 6-6:30pm.	



30.99	X9.68	XEQQ	Mexico City, Mexico	8:35am-2:45am.
30.99	9.68	EQC	Teheran, Iran	11am-1pm (Th.9:30am-1, Fri.10am-1pm)
30.99	9.68	VLW6	Perth, W. Australia	7-10:50am...News 8,10:30am.
30.99	9.68	VLQ5	Sydney, Australia	1:55-2:25am to Britain.
31.01	9.675	DJX	Berlin, Germany	1-3:15, 11:40am-5:30pm...News 12:30, 3pm.

**31 METER BAND**

31.02S	9.67	WRCA	New York City, N.Y.	8pm-1:10, 1:15-4:45am.
31.06	9.66	LRX	Buenos Aires, Argentina	6:30-7, 8:30am-11:10pm
31.06	9.66	XGOI	Shanghai, China	8-10:15am.
31.06S	9.658	HHBM	Pora-au-Prince, Haiti	6:45-8am, 1-4, 4:30-9:45pm.
31.08	9.655	JLS	Tokyo, Japan	5-11am.
31.09	9.65	DJW	Berlin, Germany	1-3:30, 7am-12 noon, 5:50pm-12:15am.
31.09F	9.65	WGEO	Schenectady, N.Y.	6-8am to Australia
31.11	9.645	LLH	Oslo, Norway	6:40-8am, 1:30-6, 9:55-11pm to NA /pm
31.11	9.645		German Revolutionary	3-3:15, 5-5:15, 7-7:15, 9-9:15, 11-11:15
31.12S	9.64	KZRH	Manila, Philippines	12-9am, 6pm-12 mid...News- 4:45, 8:30am.
31.12S	9.64	LRI	Buenos Aires, Argentina	6-8am, 1:30-2:30, 3-5, 7-11pm
31.13SX	9.635	XGOY	Chungking, China	7:35-9:55, 10-11:25am to NA, 11:30am-12:20 pm...News 8:30, 10, 11am.
31.13	9.635		Gustav Siegfried Eins	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52,
31.14S	9.635	2RO3	Rome, Italy	3-3:30am, 12:50-2:30, /9:52, 10:52, 11:52p 2:40-5:40, 8:30pm-12 mid. to NA, 12:30-1:30am to W.NA...News 3:30, 5, 8:30, 10:30
31.17	9.625		Addis Abeba, Ethiopia	10:15-11:35am /pm, lam.
31.19	9.62	CXAG	Montevideo, Uruguay	4:30-10:15pm. /7, 8, 9, 10, 11 pm.
31.19	9.62	DXL24	Paris, France	5:50pm-12 mid. to NA, 12:15-4:15pm...News
31.19	9.62	TIPG	San Jose, C.R.	7am-12:30am.
31.21	9.615	VLQ	Sydney, Australia	4:20-5:25am.
31.22	9.61	DXB	Berlin, Germany	12:15-2:30am, 12:15-4:20pm. /9, 10-11:15am.
31.23	9.606	ZRL	Capetown, S. Africa	4:15-10, 10-11:15am; Sun. 2:10-2:45, 4:30-
31.23	9.606	HP5J	Panama City, Panama	8am-2:30, 7:30-11:30pm; Sun. 9am-11pm.
31.23	9.606		Gustav Siegfried Eins	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52, 9:52, 10:52, 11:52pm.
31.25	9.60	CB960	Santiago, Chile	7pm-12 mid.
31.25	9.60	GRY	London, England	1-2:45am, 1:45-5 (4:30-5pm to NA), 5:15-
31.27	9.595		Athlone, Ireland	5:10-6pm...News 5:10pm. /6:45pm
31.30S	9.59	VUD3	Delhi, India	2:30-4:55, 7am-1:30, 9-11pm...News 9:30pm
31.30S	9.59	WCDA	New York City, N.Y.	6-8, 9:15-9:45am
31.32	9.58	VLQ6	Sydney, Australia	1:55-2:40, 2:55-3:25am...News- 3am.
31.32	9.58	VLR	Melbourne, Australia	3:45-9:30am...News 5:30, 8, 9:15am.
31.32S	9.58	GSC	London, England	1-2:30am, 12:30-12:40, 12:45-1, 1:15-1:30, 2:15-4:45, 5:15pm-12:45am to NA...News- 5:45, 6:45, 9:00, 10:45pm, 12:30am.
31.35N	9.57	KWID	San Francisco, Calif.	3-7:20, 7:30-9:15, 9:30-11:30am. *
31.35S	9.57	DXZ	Berlin, Germany	9am-Noon, 1:30-4:20, 5:30-5:45, 5:50pm-1215 am...News 1:30, 2:30, 3:30pm.
31.37S	9.565		Komsomolsk, U.S.S.R.	1:45-9:30am approx, 3:50-5:10pm
31.37	9.565		Parao, Palau Group, Caroline Islands	3-5, 8-10am approx. *
31.37	9.562	OAX4T	Lima, Peru	9-10am.
31.38	9.56	DJA	Berlin, Germany	5:50-8, 9:30pm-12:15am
31.39	9.557	XEFT	Mexico D.F., Mexico	24 hours daily
31.41N	9.55	KGEE	San Francisco, Calif.	3:25am-12 noon
31.41	9.55	WGEA	Schenectady, N.Y.	7pm-lam.
31.43	9.545	MPCY	Hsinking, Manchukuo	9-11am, 5-6pm...News 9, 10:30am, 5pm.
31.43	9.545		Komsomolsk, U.S.S.R.	2:45-9:30am approx...News- 7:40, 9:15am
31.44	X9.543	XEFT	Vera Cruz, Mexico	10am-2:15am. /9:52, 10:52, 11:52pm.
31.44	9.543		Gustav Siegfried Eins	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52
31.45	9.54	OAX5C	Ica, Peru	8pm-lam/am to W.NA...News 7:30, 11:00am.
31.45	9.54	VLG2	Melbourne, Australia	7:25-8:30am to E.NA, 9:15-10:50, 11-1145
31.46	9.538	HER4	Bern, Switzerland	6:45-8:10, 8:45-10:15pm to NA ex. Sat. .... News 9, 10pm. /3, 6pm.
31.47S	9.535	JZI	Tokyo, Japan	5am-2:30, 2:55-6:30pm...News 5, 8, 10:30am,
31.47	9.535	SBU	Motala, Sweden	5:20-5:35pm.
31.48S	9.53	WGEO	Schenectady, N.Y.	5-11:45pm, 12 mid.-lam.
31.50S	9.525	DXY	Warsaw-Berlin	9am intermittently to 5pm
31.50	9.523	ZRG	Johannesburg, So. Africa	4:30-9, 10-11:30am.
31.50	9.52		Vichy, France	12:45-1:30, 1:45-2:30, 2:45-3:30am, 7-7:45 pm to NA, 7:45-8:45, 9-11, 11:15pm-12:30am to NA

H	31.53	9.515	COCQ	Havana, Cuba	6-9am approx.	/10:45pm
H	31.55S	9.51	GSB	London, England	1-4:15, 9:30-11:15am, 5-6, 6:15-6:30, 7-	
	31.57	9.505	YUC	Belgrade, Yugoslavia	12-12:20am, -4-4:30, 6-8pm.	
	31.57	9.503		Bratislava, Slovakia	Mon/Wed/Fri/Sat to N.A. 7-8pm	
H	31.58	9.50	XEWW	Mexico D.F., Mexico	9:58am- 3:45am.	* /pm to NA*
H	31.60	9.495	OIX2	Lahti, Finland	10:55am-7:05 (2:05-2:30 to NA)	8:25-850
	31.61	9.49		Gustav Siegfried Eins	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52,	
5000	31.65S	9.48	CP38	La Paz, Bolivia	8-10, 11am-2, 4-12mid/9:52, 10:52, 11:52pm.	*
H	31.65S	9.48	KET	Bolinas, Calif.	12:15am-12 noon	*
1500	31.69S	9.47	CR6RC	Luanda, Angola	7:30-8:45am, 3:30-5pm; Sun. 11:30am-1pm	*
	31.69F	9.47	JZHA	HongKong, HongKong	8-10am	* /irreg...News 2:15 p.m.*
H	31.70S	9.465	TAP	Ankara, Turkey	Daily to 3:45pm; to networks 6:30-7:30pm	
H	31.75S	9.45	GRU	London, England	6:45-7, 8:15-9:15, 11-11:15, 11:30am-12:15,	
H	31.80	9.435	COCH	Havana, Cuba	7am- 1:15am	/1-2:15p
	31.88	9.41	EGA	Dakar, Senegal	3:15-4:30 or 5pm	
	31.91	9.40		Voice of Free India	9:30-11:30pm...News 11pm	*
	31.91N	9.40		National Congress Radio	11:45pm-12:15am.	
	31.91	9.40		Sofia, Bulgaria	4pm on-	

H	32.00	9.375	COBC	Havana, Cuba	9am-1:15am; Sun. 8am-11:30pm		
	32.12	9.34	OAX4J	Lima, Peru	9-10am, 1-4, 7pm-2am		
H	1000	32.12F	9.34	HC2AK	Guayaquil, Ecuador	7 to 11pm, or as late as lam.	*
H	32.19S	9.32	LRS	Buenos Aires, Argentina	8am- , 2-2:30, 6-10pm.	*	
H	1000	32.26	9.30	HIG2	Trujillo City, D.R.	8:10-9:40am, 12:40-3:10, 6:10-10:40pm	
H	32.36	9.27	COCX	Havana, Cuba	8:45am- 1am		
	32.43S	9.25		Bucharest, Roumania	3:45-6:05pm...News 4:50pm		
H	32.54	9.22	COBQ	Havana, Cuba	8-9:15pm approx. irreg.	*	
H	32.64	9.19	HC2ET	Guayaquil, Ecuador	8:30am-1:30am; Sun. 9:30-11:30pm		
H	32.88	9.125	HAT4	Budapest, Hungary	7-9, 9-11pm to NA...News 9:20-10:25pm		
H	33.17	9.045		Radio Libre D'Orient	Bombay, India 1:30-2:15pm	*	
H	33.24	9.025	COBZ	Havana, Cuba	8:45am-12am; Sun 8:45am- 12 mid./4:30pm.		
H	33.48	8.96	TP22	Alger, Algeria	3-4, 7:15-8am, 2-6pm...French news 3:30,		
H	33.50	8.955	COKG	Santiago, Cuba	3:15-11:30pm approx.	*	
H	33.98	8.83	COCQ	Havana, Cuba	6am- 1:30am.		
H	34.05N	8.81	WJP	Hicksville, N.Y.	7-11pm	*	
H	34.48	8.70	COCO	Havana, Cuba	5:30am- 1:30am.		
	34.62	8.665	COJK	Camaguey, Cuba	12:30-1:30, 4:30-7, 9-9:30pm		
	34.95	8.585	YNRS	Managua, Nicaragua	9-10am or later, 7:40pm-12 mid.		
	35.44	8.465	XPSA	Kweiyang, China	6:30am-12 noon, 4-6pm...News- 10, 11am.		
	36.50	8.22		Teheran, Iran	12 noon-3pm /8:30am 3:30, 4:30 p.m.		
	37.34	8.035	CNR	Rabat, Morocco	3:15-3:45, 8-9am, 1:30-6pm...French news-		
	37.34S	8.035	FXE	Beyrouth, Syria	1-4:30, 5-7:30, 9am-5pm...News 12:30pm		
	37.50	8.00	RIA6	Douala, Cameroons	6:45-7am, 2:15-2:30pm		
	37.81	7.935	PSL	Rio de Janeiro, Brazil	7-8pm; Sun. 9:15-9:40pm.		
H	38.00	7.894	YSD	San Salvador, El Salvador	8pm-12 mid. with HUB		
	38.20	7.854	HC2JSB	Guayaquil, Ecuador	9-11pm		
H	3000	39.16	7.66	YNDG	Leon, Nicaragua	9:30-11pm (11:20pm Sat/Sun)	
	39.40	7.615	YNLAT	Granada, Nicaragua	9-11:15pm		
H	39.66S	7.565	WDJ	Hicksville, N.Y.	12 mid.-3:30am.		
H	4000	40.05	7.49	YN2FT	Granada, Nicaragua	9-11pm (to 11:20pm on Sat.Sun)	
	40.30	7.446	EGSAH	Pointe-a-Pitre, Guadeloupe	7-9pm		

## 41 METER BAND

	40.98S	7.32	GRJ	London, England	1-1:15, 3-3:15am.		
	41.10	7.30	VIG	Port Moresby, Papua	Mondays 7-7:30am (English)		
	41.10N	7.30		Moscow, U.S.S.R.	6:15-6:27pm	*	
	41.15	7.29	VUD2	Delhi, India	2:30-4:30, 7am-1:30, 10:30pm-1am, 6:30pm.		
	41.27S	7.27	DXM	Berlin, Germany	12:30-8pm...News 12:30, 1:30, 2:30, 3:30,		
	41.30N	7.265	HCJB	Quito, Ecuador	7:45-9:30am, 12:30-3:30, (Sun. 8am-5:30pm),		
	41.32	7.26	EA--	Spain	Daily to 7pm	/6-11 p.m	
	41.34	7.257	JVW	Tokyo, Japan	7-10:30am approx.		
H	3000	41.38	7.25	PJCl	Willemsted, Curacao	8-10:18pm; Sun. 6-7:15pm irreg.	
	41.44	7.24	VUB2	Bombay, India	3-4:55, 7am-1pm, 10:30pm-1am.		
H	41.44	7.24	DXJ	Berlin, Germany	12:30-5, 5:50pm-1:30am to NA...News-		
	41.49S	7.23	GSW	London, England	12:30, 1:30, 2:30, 3:30, 7, 8, 9, 10, 11pm, 12, 1a		
	41.55S	7.22	2R011	Rome, Italy	11:40pm-5:45, 6:45-11:45am, 12:15-8:30pm.		
	41.61	7.21	VUC2	Calcutta, India	11:30am-2, 5-5:40pm...News 5pm		
	41.64	7.205	EA--	Madrid, Spain	2:30-5, 7:30-11:15am, 10-11:30pm		
					4-7pm		

41.67N	7.20	YSY	San Salvador, El Salvador	8:30pm-12:10am
41.80S	7.177	CR6AA	Lobito, Angola	Wed/Sat 4-6pm
41.96S	7.15	GRT	London, England	10:45pm-5:45am, 2-8:30pm...News 10:45pm*
42.00	7.143	EAJ9	Malaga, Spain	4-6:30pm
42.08	7.13	EAJ22	Oviedo, Spain	3-6pm
42.08S	7.125	GRM	London, England	10:45pm-12:45am to NA
42.28	7.095	EA--	Spain	Heard to 6:30pm
42.31	7.09	EAA9AA	Melilla, Spanish Morocco	Heard to 6pm
42.40S	7.075		Athens, Greece	1:30-6pm approx.
42.46	7.07		Serb Freedom Station	3:15-3:30, 4-4:15, 4:30-4:45pm /12:30am
42.46S	7.065	GRS	London, England	11pm-12:45am to NA, 1-4:15am...News-
42.47	7.063		Antigua, B.W.I.	6-6:20pm ex. Sun; Sun. 4-4:45pm.
42.55N	7.05	XGET	Kunming, China	Heard testing at 7am *
42.65	7.037	EA--	Valencia, Spain	3-7pm
42.74	7.03	EA--	Madrid, Spain	4:30-5:20pm

42.98	6.98	FO8AA	Papeete, Tahiti	Tues/Fri 11:57pm-12:45am.
42.98	6.98		Moscow, U.S.S.R.	6:30-7:20, 8-8:45pm...News 6:48, 8pm
43.67	6.87	YNOW	Managua, Nicaragua	8pm-12:30am or later.
44.28	6.775	HIH	San Pedro, D.R.	8-9:30pm; Sun. 6:20-7:40pm
44.28	6.76	YNRS	Managua, Nicaragua	9-10am, 7:40pm-12 mid.
44.81	6.696	TIEP	San Jose, C.R.	8-9am, 8pm-1am.

49 METER BAND

45.05	6.66		Brazil	6-7pm
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 6:45-7:45, Tu. 10:15pm-12:15am.
45.25	6.63	HIT	Trujillo City, D.R.	1:10-2:40, 5:40-9:40pm
45.87	6.54	YNLGG	Managua, Nicaragua	2-3:30, 9-11pm ex. Sun.
46.15	6.50	HIL	Trujillo City, D.R.	1:30-3, 7-10:30pm ex. Sun.
46.22	6.49	TGWB	Guatemala, Guatemala	9-10, 1:45-4:45, 8:30pm-1am; Sun. 11:30am-6:15, 8:30pm-1am.
46.26	6.485	HILL	Santiago de los Caballeros, D.R.	6:30-8:30pm ex. Sun.
46.48S	6.455	COHI	Santa Clara, Cuba	7:42am-10pm; Sun. to 9pm.
46.58	6.44	HILS	Santiago, D.R.	6:40-9:10pm ex. Sun.
46.84	6.405	TGQA	Quezaltenango, Guatemala	9-11:30pm; Sat. 9pm-2am; Sun. 8pm-4a
46.95	6.39	HI9B	Santiago, D.R.	6:40-8:40pm
47.10J	6.37	COCQ	Havana, Cuba	7:30am-2am.
47.20	6.357	HRP1	San Pedro Sula, Honduras	7-8:30am, 7-11:30pm
47.32	6.343	OAX4G	Lima, Peru	7pm-1:30am (Sat. to 2am)
47.39	6.333	HILX	Trujillo City, D.R.	Mon. 6:10-10:30pm; Tu. 6:10-10:30pm; Wed/Fri 6:10-9:10pm; Th. 6:10-9pm; Sat. 8:55am-1:15am. /6:10-8:10pm.
47.39	6.33	COCW	Havana, Cuba	8:55am-1:15am. /6:10-8:10pm.
47.47	6.32	SUP2	Cairo, Egypt	12:10-1pm
47.50	6.316	HILZ	Trujillo City, D.R.	12:40-1:40, 6:10-11:10pm
47.68S	6.29	2RO23	Rome, Italy	1-4, 5-5:40pm...News 5pm
47.68	6.29	OAX1A	Chiclayo, Peru	8:30pm-12:30am.
47.77	6.28	HILG	Trujillo City, D.R.	8:10-9:40am, 12:40-3:10, 4:40-10:40pm.
47.77	6.28		Leopoldville, Bel. Congo	6:55-8:15am, 2:30-4:30pm.
47.85S	6.27	YSR	San Salvador, El Salvador	8pm-12:30am.
48.04S	6.245	HILN	Trujillo City, D.R.	7:40-9:20am, 12:40-2:40, 7:10-11:20pm
48.08	6.24	HRD	La Ceiba, Honduras	9-11:30pm; Sun. 5-7pm
48.08	6.24	HJCF	Bogota, Colombia	8pm-12:15am.
48.23	6.22	HJCT	Bogota, Colombia	11am-3, 6:15pm-12:40am
48.35	6.205	OAX3A	Huancayo, Peru	9pm-12 mid. approx.
48.39	6.20	YV3RN	Caracas, Venezuela	5pm-11:30pm
48.39	6.20	CP5	La Paz, Bolivia	7:15-9am, 7:30pm-12 mid.; Sun. 4-9pm.
48.43	6.196	TG2	Guatemala, Guatemala	8:30-11am, 7pm-12 mid.; Sat. 7pm-4am.
48.43S	6.195	GRN	London, England	11:40pm-2:40am, 2:15-2:30, 3:15-4, 7:15-12:40-2:40, 4:40-6:40, 8:40-10:40p/8:30pm
48.47	6.19	HILA	Santiago, D.R.	12:40-2:40, 4:40-6:40, 8:40-10:40p/8:30pm
48.47	6.19	XECC	Puebla, Mexico	Heard evenings to 2am next morning.
48.47	6.19	HVJ	Vatican City	2-3:45pm approx. irreg.
48.48	6.188		Saigon, Fr. Indo China	8-10:30am.
48.51	6.185	TIRCC	San Jose, C.R.	Tu/Th/Sat. 7-8pm; Sun. 9-10pm.
48.54	6.18	XEXA	Mexico D.F., Mexico	9:30am-12 noon, 3:30-5, 8:30pm-1:30am.
48.58	6.175	H19T	Puerto Plata, D.R.	Daily to 7:40pm; Sat. to 11pm or later.
48.66	6.165	HER3	Bern, Switzerland	1:40-2:30, 7-8:45am, 2-5:30pm
48.66	6.165	TILS	San Jose, C.R.	8-10:30am, 1-3:30, 7-11pm (to 3am Sun.)
48.70	6.16	HJCD	Bogota, Colombia	11am-1, 5pm-12 mid. /1am
48.70S	6.16	CBRX	Vancouver, B.C., Canada	10:30am-3am...News 11am, 3:30, 6:45pm,

	48.74	6.155	ROB	Teheran, Iran	1-4pm...English talk at 3pm	
	48.74	6.155	CS2WD	Lisbon, Portugal	4-7pm	
	48.78	6.15	H13C	La Romana, D.R.	Heard 8:20-9am, 5:55-7:10pm.	
H	48.78	6.15	YSPB	San Salvador, El Salvador	Nightly to lam.	
	48.78	6.15	YV5RM	Caracas, Venezuela	12 noon-3, 5-11pm; Sun. 10:30am-2, 5-11pm	
	48.78	6.15	TIRH	San Jose, C.R.	Heard to 12:35am / 2:45, 6:30am-5:00 p.m.	
	48.81	6.147	ZRD	Durban, So. Africa	12:45-2:45, 4:30-8, 10am-5pm; Sun. 2:10-	
H	48.82	6.145	HJDE	Medellin, Colombia	10:30am-11:30pm.	
H	48.82S	6.145	GRW	London, England	10:00pm-lam approx. . . News 10:45pm	
	48.82S	6.145	KZRH	Manila, Philippines	12 mid.-9am, 6pm-12 mid...News 4:45, 8:30am, 6:30pm.	
	48.90	6.135	FKSAA	Noumea, New Caledonia	3:30-4:30, 9-10am; Sun. 1:40-2:35am.	
H	506	48.93	6.132	CHNX	Halifax, N.S., Canada	8am-12:15am; Sat. 9am-12 mid.; Sun. 1pm-12:15am...News 7am, 3:30, 5:30, 11pm. 9:15am-1:30pm...News 11:50am.
	48.94	6.13	VUD2	Delhi, India	5-10, 11am-2, 4pm-12 mid.	
	48.94F	6.13	YV4RO	Valencia, Venezuela	11:30am-2:30, 5:30-10:30pm.	
	48.98	6.125	CXA4	Montevideo, Uruguay	7pm-12 mid.	
	49.00	6.122	HP5H	Panama City, Panama	7pm-12 mid.	
	48.02C	6.12	OIXL	Helsinki, Finland	2-3:30, 8:30-9:30, 11am-6:15pm.	
	49.02	6.12	YV3RN	Barquisimeto, Venezuela	12:30-2:30, 6:30-10:30pm	
H	49.02	6.119	XEUZ	Mexico D.F., Mexico	10am-2, 8pm-3am.	
	106	49.08	6.115	HI6H	Trujillo City, D.R.	10:40am-9:40pm
	49.10S	6.11	CP2	La Paz, Bolivia	5-10, 11am-2, 4pm-12 mid.	
N	49.10S	6.11	GSL	London, England	1-2:45am, 2:45-6:30, 10pm-12:45am to NA. *	
	49.12	6.108	XOJD	Hankow, China	4-9am approx. / News 10:45pm, 12:30am. *	
	49.14	6.105	PRE9	Fortaleza, Ceara, Brazil	4:30-11pm.	
	750	49.14	6.105	HJFB	Manizales, Colombia	6:30-11pm ex. Sun.
	49.14	6.105	XGAP	Peiping, China	6:30-11:50am.	
	49.21	6.097	HJFK	Pereira, Colombia	8-9am, 7:05-11:30pm	
	49.21	6.097	ZRK	Capetown, So. Africa	12:45-2:45am; after 11am irreg.	
	49.21	6.095	PYD7	Sao Paulo, Brazil	5:40-10:45pm	
	49.21N	6.095		Penang, Malaya	6-10:30 am...News 8:45am. *	
H	200	49.25	6.09	CFWV	Montreal, Canada	7:30am-12 mid...News 11pm
	250	49.25	6.09	XEBF	Jalapa, Mexico	Heard evenings irreg.
	49.25	6.09	ZNS2	Nassau, Bahamas	9-9:15am, 2-2:30, 7-10pm (Sun. to 11:20pm)	
H	1000	49.33	6.082	OAK4Z	Lima, Peru	6pm-12 mid. or later.
	49.34S	6.08	GRR	London, England	12:30-lam, 1:30-1:45, 6:20-6:35pm	
H	49.34S	6.08	WLWO	Cincinnati, Ohio	12:45-2:45am	
	10	49.34	6.08	CKFX	Vancouver, B.C., Canada	10:30am-4am...News 1am
	49.34	6.08	ZFY	Georgetown, Brit. Guiana	6:45-8:45, 10:45am-12:45, 3:15-8:15pm	
	49.38	6.075	HJCF	Bogota, Colombia	8pm-12 mid.	
	49.40	6.072	VUY2	Dacca, India	9-11:15am	
H	1000	49.42	6.07	CFRX	Toronto, Canada	7am-1:30am; Sun. 11am-12 mid.; News- 8, 9a
	49.42	6.07	YV5RU	Caracas, Venezuela	6-10:30pm (Sun. to 11:30pm)	
	49.42	6.07	TIWS	Puntarenas, C.R.	8:30-11pm; Sun. 3-9pm	
	49.42N	6.07		Khabarovsk, U.S.S.R.	2:45-10 A.M.	
	49.46	6.065	SBO	Motala, Sweden	5:20-5:35pm	
	49.50	6.06	VQZLO	Nairobi, Kenya	6:45-7:15am, 12:30-3:30pm ex. Sa/Sun; Tu. & Th. 9:30-10:30am; Sa. 6:45-7:30am, 12:30-7-11am / 3:30pm; Sun. 12-3pm.	
	49.50	6.06		Bangkok, Thailand		
	49.55	6.054	HJFA	Pereira, Colombia	10am-1, 7:30-11:20pm.	
	49.59	6.05	GSA	London, England	11:40pm-8:30pm (European Service)	
	49.59	6.05	OAX6A	Arequipa, Peru	7pm-12 mid.	
	49.66	6.04	XETW	Tampico, Mexico	8pm-2am.	
H	49.66S	6.04	WRUS	Boston, Mass.	12:30-1:30am, 1:15-6:30, 6:30-11pm ex. Sun; /Sun. 2-9:15p	
	49.73	6.03	HP5B	Panama City, Panama	11:30am-8, 7-11pm.	
	100	49.73	6.03	CFVP	Calgary, Alta., Canada	11am-3am... News lam.
	49.73V	6.03	MTCY	Hsinking, Manchukuo	3-10:30am.	
	49.73N	6.03		Harbin, Manchukuo	Daily to 10:07am...News at 9:45am	
	49.73	6.03	CR7AA	Lourenco Marques, Mozambique	1-2, 5:30-8, 1-5pm; Sun. 5:30-8am,	
H	500	49.75	6.03	XERW	Morelia, Mexico	9am-2, 6pm-12:40am. / 11am-3pm.
	250	49.78	6.026	HILJ	San Pedro, D.R.	12:40-2:40, 7:10-9:40pm or later.
H	49.80	6.023	XETW	Vera Cruz, Mexico	8am-2am	
	49.83	6.02	DJC	Berlin, Germany	8-9, 11:30am-3, 6:30pm-12:40am.	
	100	49.88	6.015	H13U	Santiago, D.R.	8:10-9:55am, 12:40-2:40, 5:40-6:40pm
H	1000	49.92S	6.01	GJGX	Sydney, N.S., Canada	7am-2:30, 9pm-11pm...News 7, 8am
	49.92	6.01	PR48	Recife, Pernambuco, Brazil	4-10pm.	
H	49.95	6.007	ZRH	Johannesburg, So. Africa	12:45-2:45, 11am-5pm	

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