

# LISTENERS

OFFICIAL RADIO LOG

REGULAR  
AND  
SHORT  
WAVE

YORK RADIO SHOP

J. C. TOWELL, RADIO - TRICIAN

Telephone No. 6

YORK, S. C.

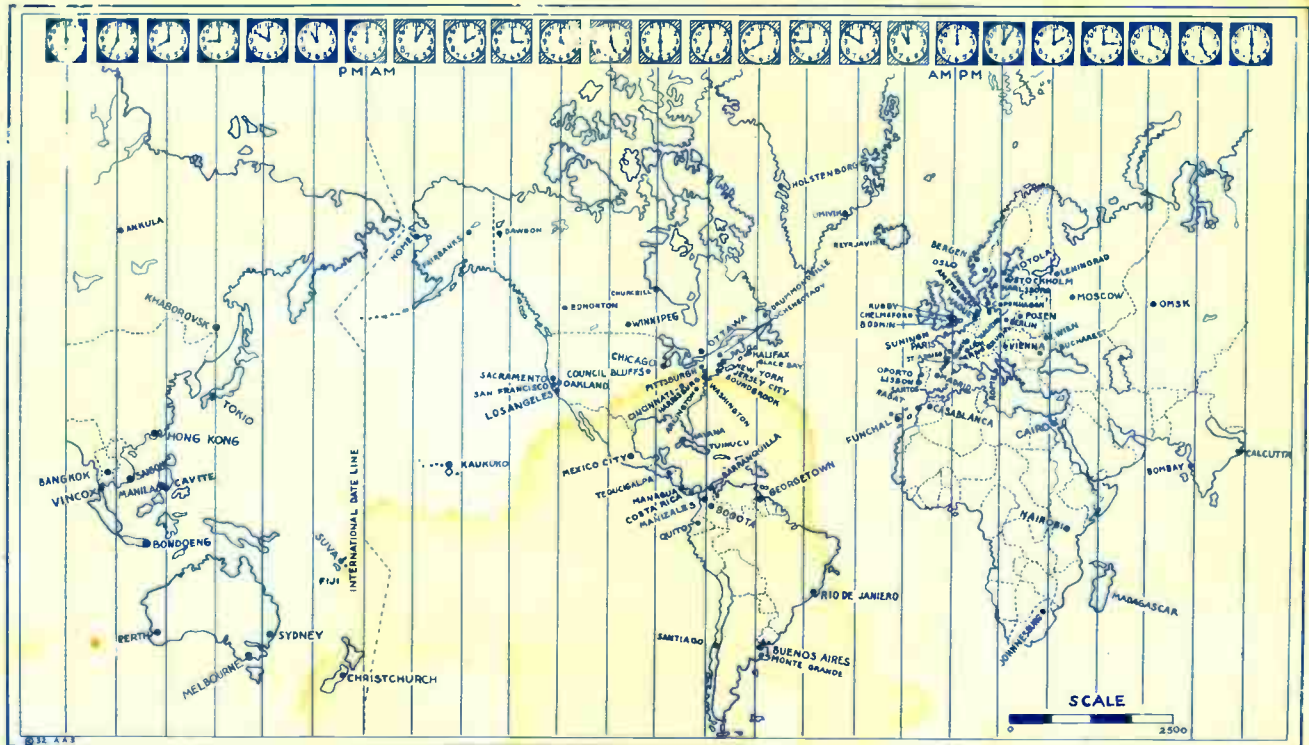


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LATEST INFORMATION RELEASED BY  
**RADIO COMMISSION**

World Radio History



Short Wave Reference Map of the World



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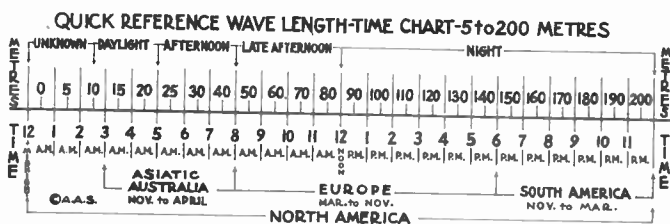
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# HOURS AND DAYS OF WEEK IN U. S. TIME THAT WORLD SHORT-WAVE STATIONS ARE ACTUALLY SCHEDULED TO BROADCAST

Foreign Short-Wave Broadcasting Stations listed below are known to be on the air at the times stated. All time given is Eastern Standard Time. American stations are not included in this list because they are usually broadcasting during the same hours of the station they relay. For instance, W3XAL, Boundbrook, N. J., relays the N.B.C. Programs from New York. W8XK relays KDKA's Program. The best hours for reception of Short-Wave Stations are as follows: From 15 to 30 meters best reception may be expected between daylight and 2 P.M.; between 25 and 50 meters from 2 P.M. until about sundown; and between 45 meters and 160 meters after sundown. Asiatic and Australian stations are received best from 3 A.M. to about 7 A.M. in early morning, from about November to April. European stations come in best between 9 A.M. and 7 P.M. from about March to November. South American Stations are best received in the colder months after sundown until about 11 P.M. American and Canadian Stations are received best from 8 A.M. until midnight.

Location	Time of Broadcast	Call	Meters
Aranjuez, Spain	7:20-9 P.M. Mon. to Fridays	EAQ	30.7
Aranjuez, Spain	1-3 P.M. Saturdays	EAQ	30.7
Barranquilla, Colombia	8-10:30 P.M. Mon., Wed., Friday	HKD	50.0
Belgrade, Jugo Slavia	10 A.M.-12 Noon; 1-5 P.M.	.....	30.0
Berlin, Germany	8:00 A.M.-7:30 P.M. daily	.....	31.4
Chelmsford, England	7:45 A.M.-8:30 A.M.; 8:45 A.M.-7 P.M. M.-F.	G5SW	25.5
Chelmsford, England	6:00 A.M.-9:00 A.M. Sat. only	G5SW	25.5
Chi-Hoa, Indo-China	6:30 A.M.-10:30 A.M.	F31CD	49.0
Gothenburg, Sweden	11 A.M.-5 P.M.	SBG	36.4
Guatemala, Guatemala	12:30 P.M.-1:30 P.M.	TGW	21.0
Guatemala, Guatemala	9:00 P.M.-11 P.M.	TGW	41.0
Heredia, Costa Rica	7:30 P.M.-8:30 M. W.; 9-10 P.M. Thur., Sat.	T14	29.3
Hilversum, Holland	10 A.M.-2 P.M. and 5 P.M.-6 P.M., Wed.	PCJ	31.3
Hilversum, Holland	7-9 P.M.; 12-2 P.M.; 5-6 P.M., Thurs.	PCJ	31.3
Hilversum, Holland	7-10 P.M., 12-2 P.M., Fridays	PCJ	31.3
Hilversum, Holland	7 P.M.-2 A.M. Sundays	PCJ	31.3
Khabarovsk, Siberia	3-9 A.M.	RV15	70.2
Melbourne, Australia	3 A.M.-9:30 A.M. Wed. and Sat.	VK3ME	31.6
Mexico, Mexico	3-4 P.M.	XDA	25.5
Montreal, Quebec	7 P.M.-Midnight	VE9DR	50.0
Paris, France	9:30 A.M.-12:30 P.M.	FYA	19.7
Paris, France	1-3 P.M.	FYA	25.1
Paris, France	4-6 P.M.	FYA	25.6
Quito, Ecuador	9-11 P.M.	HC1DR	47.0
Quito, Ecuador	8:30-11 P.M.	HCJB	52.5
Rabat, Morocco	8:30-10 A.M., 11 A.M.-1 P.M., 3-7 P.M.	PTT	32.3
Rome, Italy	4-6 P.M.	I2RO	25.4
San Jose, Costa Rica	2-10 P.M.	TIRC	31.4
Sydney, Australia	1-3 A.M., 5-9 A.M., 9:30-11:30 A.M. Sun.	VK2ME	31.3
Toronto, Ontario	1-10 P.M.	VE9GW	25.4
Vatican City, Italy	5-5:15 A.M. Monday to Saturday	HVJ	19.8
Vatican City, Italy	2-2:15 P.M. Monday to Saturday	HVJ	50.3



# WORLD SHORT-WAVE BROADCASTING STATIONS BY CITIES

## UNITED STATES BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Boston, Mass.	W1XAL	6040	49.67	Oakland, Calif.	W6XN	12850	23.35
Boston, Mass.	W1XAL	11800	25.42	Philadelphia, Pa.	W3XAU	6060	49.50
Boston, Mass.	W1XAL	15250	19.67	Philadelphia, Pa.	W3XAU	9590	31.28
Boston, Mass.	W1XAL	21460	13.97	Pittsburgh, Pa.	W8XK	6140	48.86
Boundbrook, N. J.	W3XAL	6100	49.18	Pittsburgh, Pa.	W8XK	9570	31.35
Chicago, Ill.	W9XAA	6080	49.34	Pittsburgh, Pa.	W8XK	11880	25.25
Chicago, Ill.	W9XAA	11840	25.34	Pittsburgh, Pa.	W8XK	15210	19.72
Chicago, Ill.	W9XAA	17780	16.87	Pittsburgh, Pa.	W8XK	17780	16.87
Chicago, Ill.	W9XF	6020	49.83	Pittsburgh, Pa.	W8XK	21540	13.93
Chicago, Ill.	W9XF	11800	25.42	Sacramento, Calif.	W6XAF	2735	112.10
Chicago, Ill.	W9XF	21500	13.95	Sacramento, Calif.	W6XAF	5870	51.11
Cincinnati, Ohio	W8XAL	6060	49.50	Schenectady, N. Y.	W2XAD	15340	19.56
Council Bluffs, Iowa	W9XU	6060	49.50	Schenectady, N. Y.	W2XAF	9530	31.48
Jamaica, N. Y.	W2XE	6120	40.02	Springfield, Mass.	W1XAZ	9570	31.35
Jamaica, N. Y.	W2XE	11840	25.34	Westminster, Calif.	W6XAL	6080	49.34
Jamaica, N. Y.	W2XE	15280	19.63	Westminster, Calif.	W6XAL	15250	19.67
Miami, Florida	W4XA	2368	126.7	Westminster, Calif.	W6XAL	21500	13.95
New York, N. Y.	W3XL	6425	46.70				

## AFRICA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Algiers, Algeria	F8KR	6665	45.0	Nairobi, Kenya	VQ7LO	6000	50.0
Cairo, Egypt	SUS	9110	32.8	Nairobi, Kenya	VQ7LO	9615	31.2
Casablanca, Mor.	AIN	5880	51.0	Rabat, Morocco	PTT	6875	43.6
Casablanca, Mor.	F8MC	10710	28.0	Rabat, Morocco	PTT	9300	32.3
Casablanca, Mor.	F8MC	6875	43.6	Rabat, Morocco	PTT	12830	23.4
Constantine, Tun.	F8KR	7005	42.8	Tananarive, Mad.		5550	54.0
Johannesburg, S. A.	ZTJ	6095	49.2	Teneriffe, Can. Is.	EAR58	7210	41.6

## ASIA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Bandoeng, Java	PLE	9410	31.9	Hirasio, Japan	JHBB	7995	37.5
Bandoeng, Java	PLE	18860	15.9	Johore Baru, Malaya	VS3AB	7055	42.5
Bankok, Siam	HSP2	9500	31.6	Makassar, E. I.	PK6KZ	11993	25.0
Bankok, Siam	HSP2	7300	41.0	Malabar, E. I.	PLF	17640	17.0
Bankok, Siam	HS2PJ	10167	29.5	Palembang, E. I.	PK4PA	59964	5.0
Batavia, E. I.	PK1AA	4000	77.5	Saigon, China	FZG	12010	25.0
Bombay, India	VUB	6115	49.1	Semarang, E. I.	PK3AG	7890	38.0
Calcutta, India	VUC	11870	25.3	Shanghai, China	XCTE	5000	60.0
Chi Hoa, China	F31CD	6120	49.1	Singapore, Malaya	WS1AB	7260	41.3
Djakakarta, E. I.	PK2AF	5996	50.0	Surabaya, E. I.	PK3AN	6040	49.7
Hai Phong, China		3446	87.0	Surabaya, E. I.	PK3CH	6660	45.0

## CANADA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Calgary, Alta.	VE9CG	6110	49.1	Montreal, Que.	VE9DR	6005	50.0
Calgary, Alta.	VE9CA	6030	49.8	Montreal, Que.	VE9DN	9580	31.3
Middlechurch, Man	VE9CL	6148	48.8	Montreal, Que.	VE9DN	11895	25.2
Montreal, Que.	VE9BA	6130	48.9	St. John, N. B.	VE9BJ	6090	49.3
Montreal, Que.	VE9BA	11305	25.6	Toronto, Ont.	VE9GW	6095	49.2
Montreal, Que.	VE9BA	15290	19.8	Vancouver, B. C.	VE9CS	6148	48.8
Montreal, Que.	VE9AF	2850	105.0	Winnipeg, Man.	VE9JR	11780	25.5

## EUROPE BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Agen, France	F2BD	9760	30.7	Moscow, U.S.S.R.	RW61	51724	5.8
Amsterdam, Holl.	PHI	17775	16.9	Motala, Sweden	SBG	3030	99.0
Aranjuez, Spain	EAQ	9870	30.7	Motala, Sweden	SBG	6065	49.5
Barcelona, Spain	EAJ25	6000	50.0	Nauen, Germany	DHO	20040	14.9
Belgrade, Yu-Slav.		10000	30.0	Paris, France	FL	6125	49.0
Berlin, Germany		9560	31.4	Paris, France	F8GC	7317	41.0
Chelmsford, Eng.	G5SW	11750	25.5	Paris, France	F8GC	9375	32.0
Copenhagen, Den.		15300	19.6	Paris, France	F8GC	4262	61.0
Copenhagen, Den.		9500	31.6	Paris, France	FYA	15235	19.7
Copenhagen, Den.		6060	49.5	Paris, France	FYA	11899	25.2
Hilversum, Holl	PCJ	9590	31.3	Paris, France	FYA	11308	25.6
Gothenburg, Sweden		12400	24.2	Poznon, Poland		9836	30.5
Gothenburg, Sweden		8240	36.4	Prague, Cz. Slav.	OK1MPI	5170	58.0
Karlsborg, Sweden	SAS	11760	25.5	Rome, Italy	11AX	6665	45.0
Kharbarovsk, U.S.S.R.	RW54	4275	70.2	Rome, Italy	12RO	3750	80.0
Lisbon, Port.	CT1AA	6995	42.9	Rome, Italy	12RO	11810	25.4
Lisbon, Port.	CT1BU	10710	28.0	Sonning, Eng.	G2NM	14320	20.9
Lyon, France	YR	7465	40.2	Sze'vegervar, Hun.	HAT	9125	32.9
Madrid, Spain	EAQ	9870	30.7	Vatican City, It.	HVJ	15112	19.8
Madrid, Spain	EAR100	6975	43.0	Vatican City, It.	HVJ	5965	50.3
Madrid, Spain	EAR125	7025	42.7	Vienna, Aust.	UOR2	11801	25.4
Minsk, U.S.S.R.	RW62	6420	46.7	Zeesen, Germany		15230	19.7

# WORLD SHORT-WAVE BROADCASTING STATIONS BY CITIES

## CENTRAL AMERICA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Cienfuegos, Cuba	CM6DW	7300	41 0	Havana, Cuba	CM2MK	9360	32 0
Guatemala, Guat.	TGW	14300	21 0	Havana, Cuba	CM2MK	7185	41 8
Guatemala, Guat.	TGW	7300	41 0	Heredia, C. R.	T14NR	10240	29 3
Guatemala, Guat.	TGX	13200	22 7	Matanzas, Cuba	CM5RY	7300	41 0
Guatemala, Guat.	TGGA	10708	28 0	San Jose, C. R.	TIRC	9560	31 4
Guatemala, Guat.	TGGA	9370	32 0	Tegucigalpa, Hon.	HRB	6005	50 0
Havana, Cuba	CM2LA	10013	30 0	Tegucigalpa, Hon.	HRB	6170	48 6

## MEXICO BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Mexico, Mexico	XFA	6970	43 1	Mexico, Mexico	XFD	6665	45 0
Mexico, Mexico	XDA	5855	51 2	Mexico, Mexico	XFD	9091	33 0
Mexico, Mexico	XDA	6820	44 0	Mexico, Mexico	XFD	11111	27 0
Mexico, Mexico	XDA	9375	32 0	Mexico, Mexico	XDA	14630	20 5
Mexico, Mexico	XDA	11765	25 5	Nueva Laredo, Mex.	X26A	7515	40 7

## NEWFOUNDLAND BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
St. Johns, N. F.	VOBZ	6800	44 0				

## OCEANIA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Christchurch, N. Z.	ZL3ZC	6000	50 0	Sydney, Australia	VK2FC	10520	28 5
Melbourne, Australia	VK3LO	9370	32 0	Sydney, Australia	VK2ME	9590	31 3
Melbourne, Australia	VK3ME	9500	31 6	Sydney, Australia	VK2ME	9590	31 3
Melbourne, Australia	VK3JZ	8820	34 0	Sydney, Australia	VK2ME	16330	18 4
Suva, Fiji	VPD	14420	20 8	Wellington, N. Z.	ZLW	10990	27 3
Sydney, Australia	VK2BL	9230	32 5	Wellington, N. Z.	ZL2XX	4775	62 8

## SOUTH AMERICA BY CITIES

Location	Call	K.C.	Meters	Location	Call	K.C.	Meters
Barranquilla, Col.	HKA	6160	48 7	Caracas, Ven.	VV2BC	6061	49 5
Barranquilla, Col.	HKD	5835	51 4	El Prado, Ecuador		7538	39 8
Barranquilla, Col.	HKD	6050	49 6	Georgetown, Bri. Gui.	VRY	6725	44 4
Bogota, Col.	HKC	6275	47 8	Manizales, Col.	HKT	7145	42 0
Bogota, Col.	HKF	7615	39 4	Medellin, Col.	HKN	11710	25 6
Bogota, Col.	HKF	8692	34 5	Medellin, Col.	HKN	7540	39 8
Bogota, Col.	HKF	7145	42 0	Quito, Ecuador	HC1DR	6370	47 0
Buenos Aires, Arg.	LSR	9810	30 0	Quito, Ecuador	HCJB	5710	52 5
Buenos Aires, Arg.	LSX	10382	28 9	Valencia, Ven.	VV4BV	11700	25 6

## GREENWICH TIME AND STANDARD TIME

Greenwich time is that system of time in which noon occurs the moment the MEAN SUN passes over the Meridian at Greenwich, England. Because of the known fact that the sun is apparently retarded or speeded up in accordance with the earth's position in its orbit, sun time is not accurate. To make it possible to accurately compute time in even months, days, hours, and minutes, an imaginary sun called the MEAN SUN was invented. The difference between MEAN SUN time and actual sun time may vary as much as 15 minutes within 24 hours.

Standard time is the time of a certain meridian used locally in place of actual MEAN TIME. All clocks within 7½ degrees east or west of this meridian use the time of this meridian as the basis for local standard time. These 15 degree areas are known as standard time zones, and are designated as Eastern Standard Time, Central Standard Time, Mountain Standard Time, and so on.

The International Date Line (180 degrees longitude) was chosen because it is 12 hours from Greenwich, England. This date line being somewhat irregular avoids passing through islands and territories because doing so would cause confusion. For instance, when crossing the International Date Line going west, one retires on Saturday night and awakens Monday morning; but returning east, one would retire on Saturday night and arise on Saturday morning. The following table gives the standard time in the principal cities of the world when it is 12 o'clock noon in New York City.

Amsterdam, Holland	5:15 P.M.	Leningrad, U. S. S. R.	6:58 P.M.
Athens, Greece	6:31 P.M.	Lisbon, Portugal	4:20 P.M.
Auckland, Australia	4:36 A.M.	London, England	4:56 P.M.
Berlin, Germany	5:49 P.M.	Madrid, Spain	4:42 P.M.
Berne, Switzerland	5:26 P.M.	Manila, P. I.	1:01 A.M.
Bombay, India	9:47 P.M.	Melbourne, Australia	2:36 A.M.
Brisbane, Australia	3:08 A.M.	Mexico City, Mexico	10:20 A.M.
Buenos Aires, Arg.	1:04 P.M.	Ottawa, Canada	11:53 A.M.
Brussels, Belgium	5:14 P.M.	Paris, France	5:05 P.M.
Cairo, Egypt	7:00 P.M.	Peiping, China	12:42 A.M.
Calcutta, India	10:50 P.M.	Rio De Janeiro, Brazil	2:04 P.M.
Cape Town, South Africa	6:56 P.M.	Rome, Italy	5:46 P.M.
Chicago, Illinois	11:00 A.M.	San Francisco, Calif.	9:00 A.M.
Oslo, Norway	5:40 P.M.	Stockholm, Sweden	6:08 P.M.
Constantinople, Turkey	6:52 P.M.	Sydney, Australia	3:02 A.M.
Copenhagen, Denmark	5:46 P.M.	Tokyo, Japan	2:16 A.M.
Dublin, Ireland	4:35 P.M.	Vienna, Austria	6:02 P.M.
Edinburgh, Scotland	4:43 P.M.	Washington, D. C.	12:00 Noon
Honolulu, Hawaii	6:25 A.M.	Winnipeg, Manitoba	10:48 A.M.

# SHORT WAVE BROADCASTING STATIONS OF THE WORLD

BY METERS AND KILOCYCLES

Dial Meters	K. C.	Call	Location	Dial Meters	K. C.	Call	Location
5 0	59964	PK4PA	Palembang, E. I.	30.5	9835	.....	Poznon, Poland
5.8	51724	RW61	Moscow, U.S.S.R.	30.6	9810	LSR	Buenos Aires, Arg.
14 0	21540	W8XK	Pittsburgh, Pa.	31.2	9615	VQ7LO	Nairobi, Africa
14.0	21500	W6XAL	Westminster, Cal.	31.3	9590	KZRM	Manila, P. I.
14 0	21460	W1XAL	Boston, Mass.	31.3	9590	VK2ME	Sydney, Australia
14 9	20040	DHO	Nauen, Germany	31.3	9590	W3XAU	Coytesville, N. J.
15 2	19735	EAQ	Madrid, Spain	31.3	9590	PCJ	Hilversum, Holl.
15 9	18860	PLE	Bandoeng, Java	31.3	9580	VE9DN	Montreal, Que.
16 4	18350	YVQ	Caracas, Ven.	31.3	9570	W1XAZ	Springfield, Mass.
16 7	17780	W8XK	Pittsburgh, Pa.	31.3	9570	W8XK	Pittsburgh, Pa.
16 7	17780	W9XAA	Chicago, Ill.	31.4	9560	T1RC	San Jose, C. R.
16 8	17775	PHI	Huizen, Holland	31.4	9560	.....	Berlin, Germany
17 0	17640	PLF	Malabar, E. I.	31.5	9530	W2XAF	Schenectady, N. Y.
18 4	16330	VK2ME	Sydney, Australia	31.6	9500	HSP2	Bankok, Siam
19 6	15340	W2XAD	Schenectady, N. Y.	31.6	9500	.....	Copenhagen, Den.
19 6	15300	.....	Copenhagen, Den.	31.6	9500	VK3ME	Melbourne, Australia
19 6	15280	W2XE	New York, N. Y.	31.9	9410	PLE	Bandoeng, Java
19 7	15250	W1XAL	Boston, Mass.	32.0	9375	XDA	Mexico, Mexico
19 7	15250	W6XAL	Westminster, Cal.	32.0	9375	F8GC	Paris, France
19 7	15235	FYA	Paris, France	32.0	9370	TGGA	Guatemala, Guat.
19 7	15230	DJB	Zeesen, Germany	32.0	9370	VK3LO	Melbourne, Australia
19.7	15210	W8XK	Pittsburgh, Pa.	32.0	9360	CM2MK	Havana, Cuba
19.8	15190	VE9BA	Montreal, Que.	32.1	9335	CGA	Drumville, Ont.
19 8	15112	HVJ	Vatican City, It.	32.3	9300	PTT	Rabat, Morocco
19.8	15110	HBT	Berne, Swiz.	32.5	9230	VK2BL	Sydney, Australia
20 4	14850	HBC	Berne, Swiz.	32.8	9125	HAT	Sa'vgevar, Hun.
20.5	14630	XDA	Mexico, Mexico	32.8	9110	SUS	Cairo, Egypt
20 8	14420	VPD	Suva, F. I.	33.0	9091	XFD	Mexico, Mexico
20 9	14320	G2NM	Sonning, Eng.	33.2	9030	CFH	Halifax, N. S.
21 0	14300	TGW	Guatemala, Guat.	34.0	8820	VK3UZ	Melbourne, Australia
22 7	13200	TGX	Guatemala, Guat.	34.5	8692	HKF	Bogota, Colombia
23 4	12830	PTT	Rabat, Morocco	36.4	8240	.....	Gothenburg, Swed.
24 2	12400	.....	Gothenburg, Swed.	37.5	7995	JHBB	Hirasio, Japan
25 0	12010	FZG	Saigon, China	38 0	7890	PK3AG	Semarang, E. I.
25 0	12000	PK6KZ	Makassar, E. I.	39 0	7680	HC2FG	Riobambo, Ecuador
25 0	12000	HKK	Cali, Colombia	39 7	7615	HKF	Bogota, Colombia
25.2	11900	FYA	Paris, France	39 8	7540	HKN	Medellin, Colombia
25 2	11895	VE9DN	Montreal, Que.	40 1	7515	X26A	Nuevo Laredo, Mex.
25 2	11880	W8XK	Pittsburgh, Pa.	40 2	7465	YR	Lyons, France
25.3	11870	VUC	Calcutta, India	41 0	7317	F8GC	Paris, France
25.3	11850	W6XN	Oakland, Calif.	41 0	7300	TGW	Guatemala, Guat.
25 3	11840	W2XE	New York, N. Y.	41 0	7300	CMSRY	Matanzas, Cuba
25.4	11830	W9XAA	Chicago, Ill.	41 0	7300	HSP2	Bankok, Siam
25.4	11810	I2RO	Rome, Italy	41 0	7300	HKS	Cali, Colombia
25 4	11810	VE9GW	Toronto, Ont.	41.0	7300	CM6DW	Cienfuegos, Cuba
25 4	11810	UOR2	Vienna, Austria	41.3	7270	HKJ	Cali, Colombia
25.4	11800	W1XAL	Boston, Mass.	41.3	7260	VS1AB	Singapore, Malaya
25.4	11800	W9XF	Chicago, Ill.	41 5	7220	HKU	Bogota, Colombia
25 5	11780	VE9JR	Winnipeg, Man.	41 6	7210	EAR5B	Teneriffe, Can. Is.
25.5	11765	XDA	Mexico, Mexico	41.8	7815	CM2MK	Havana, Cuba
25 5	11760	SAS	Karlsborg, Swed.	41.8	7185	HKB	Tunja, Colombia
25.5	11750	G5SW	Chelmsford, Eng.	42 0	7145	HKF	Bogota, Colombia
25 6	11710	HKN	Medellin, Col.	42 0	7145	HKT	Manizales, Col.
25 6	11700	YV4BV	Valencia, Ven.	42 5	7055	VS3AB	Johore Baru, Mal.
25 7	11540	XAM	Yucatan, Yuc.	42 7	7025	EAR125	Madrid, Spain
25 8	11308	FYA	Paris, France	42 8	7005	F8KR	Constantine, Tun.
25 8	11305	VE9BA	Montreal, Que.	42.9	6995	CT1AA	Lisbon, Port.
27 0	11111	XFD	Mexico, Mexico	43 0	6975	EAR100	Lisbon, Spain
27 3	10990	ZLW	Wellington, N. Z.	43.1	6970	XFA	Mexico, Mexico
28 0	10710	F8MC	Casablanca, Mor.	43.6	6875	F8MC	Casablanca, Mor.
28 0	10710	CT2BO	Lisbon, Port.	43 6	6875	PTT	Rabat, Mor.
28 0	10708	TGGA	Guatemala, Guat.	44 0	6820	XDA	Mexico, Mexico
28.5	10520	VK2FC	Sydney, Australia	44 0	6800	VOBZ	St. Johns, N. F. D.
28 9	10380	LSX	Buenos Aires, Arg.	44.4	6725	VRY	Georgetown, B. Gui.
29.3	10240	T14NR	Heredia, C. R.	45 0	6665	XFD	Mexico, Mexico
29 5	10167	HS2PJ	Bankok, Siam	45 0	6670	HKM	Bogota, Colombia
30 0	10013	CM2LA	Havana, Cuba	45 0	6665	I1AX	Rome, Italy
30 0	10000	.....	Belgrade, Yu.-Slav.	45 0	6665	F8KR	Algiers, Algeria
30 4	9868	EAQ	Aranjuez, Spain	45 0	6660	PK3CH	Surabaya, E. I.

# SHORT WAVE BROADCASTING STATIONS OF THE WORLD

BY METERS AND KILOCYCLES

Dial Meters	K. C.	Call	Location	Dial Meters	K. C.	Call	Location
46 7	6425	W3XL	Newark, N. J.	49 8	6030	VE9CA	Calgary, Alta.
46 7	6420	RW6Z	Minsk, U.S.S.R.	49 8	6020	W9XF	Chicago, Ill.
47 0	6370	HC1DR	Quito, Ecuador	50 0	6005	VE9DR	Montreal, Que.
47.8	6270	HKC	Bogota, Col.	50 0	6005	HRB	Tegucigalpa, Hon.
48 6	6170	HRB	Tegucigalpa, Hon.	50 0	6000	PK2AF	Djakakarta, Siam
48.7	6160	HKA	Barranquilla, Col.	50 0	6000	ZL3ZC	Christchurch, N. Z.
48.8	6148	VE9CL	Middlechurch, Man.	50 0	6000	EAJ25	Barcelona, Spain
48.8	6148	VE9CS	Vancouver, B. C.	50 0	6000	VQ7LO	Nairobi, Africa
48 9	6140	W8XK	Pittsburgh, Pa.	50 3	5965	HVJ	Vatican City, Italy
48 9	6130	VE9BA	Montreal, Que.	50 5	5940	HKD	Barranquilla, Col.
49 0	6125	FL	Paris, France	51 0	5880	AIN	Casablanca, Morocco
49 0	6120	W2XE	New York, N. Y.	51 1	5870	W6XAF	Sacramento, Calif.
49 0	6120	F31CD	Chi Hou, China	51 2	5855	XDA	Mexico, Mexico
49.1	6115	VUB	Bombay, India	51 4	5835	HKD	Barranquilla, Col.
49 1	6110	VE9CG	Calgary, Alberta	52 5	5710	HCJB	Quito, Ecuador
49 2	6100	W3XAL	Boundbrook, N. J.	54 0	5550		Tanunarive, Mad.
49.2	6095	ZTJ	Johannesburg, S. Afr.	58 0	5170	OK1MPI	Prague, Cz-Slov.
49.2	6095	VE9GW	Toronto, Ontario	58 0	5165	HKR	Cali, Columbia
49 3	6090	VE9BJ	St. John, N. B.	60 0	5000	XCTE	Shanghai, China
49 3	6080	W9XAA	Chicago, Ill.	61 0	4262	P8GC	Paris, France
49 3	6080	W6XAL	Westminster, Cal.	62 8	4775	ZL2XX	Wellington, N. Z.
49 4	6070	UOR2	Vienna, Austria	70 2	4272	RW54	Kharbarovsk, USSR.
49 5	6065	SBG	Motala, Sweden	77 5	4000	PK2AA	Batavia, E. I.
49 5	6060	W8XAL	Cincinnati, Ohio	80 0	3750	I2RO	Rome, Italy
49 5	6060	W3XAU	Newark, N. J.	87 0	3446		Haiphong, China
49 5	6050	VY2BC	Caracas, Ven.	99 0	3030	SBG	Motala, Sweden
49 6	6050	HKD	Barranquilla, Col.	105 0	2850	VE9AF	Montreal, Que.
49.7	6040	W1XAL	Boston, Mass.	112 1	2735	W6XAF	Sacramento, Calif.
49.7	6040	PK3AN	Surabaya, E. I.	126 7	2370	W4XA	Miami, Florida

## INTERNATIONAL CALL LETTER ASSIGNMENTS

Call Signal	Country	Call Signal	Country
CAA-CEZ	Chile.	PPA-PYZ	Brazil
CFA-CKZ	Canada.	PZA-PZZ	Surinam (Dutch Guiana).
CLA-CMZ	Cuba.	Q	(Abbreviations.)
CNA-CNZ	Marocco	RAA-RQZ	Union of Soviet Socialist Republics
CPA-CPZ	Bolivia.		(U. S. S. R.)
CQA-CQZ	} Portuguese colonies.	RVA-RVZ	Persia.
CRA-CRZ		RXA-RXZ	Republic of Panama.
CSA-CUZ	Portugal.	RYA-RYZ	Lithuania.
CVA-CVZ	Rumania.	SAA-SMZ	Sweden.
CWA-CXZ	Uruguay.	SPA-SRZ	Poland.
CZA-CZZ	Monaco.	STA-STZ	} Egypt.
D	Germany.	SUA-SUZ	
EAA-EHZ	Spain.	SVA-SZZ	Greece.
EIA-ELZ	Irish Free State.	TAA-TCZ	Turkey.
ELA-ELZ	Liberia	TFA-TFZ	Iceland.
ESA-ESZ	Estonia.	TGA-TGZ	Guatemala.
ETA-ETZ	Ethiopia.	TIA-TIZ	Costa Rica.
F	France and colonies and protectorates.	TSA-TSZ	Territory of the Saar.
G	Great Britain.	UHA-UHZ	Hedjar.
HAA-HAZ	Hungary.	UIA-UKZ	Dutch East Indies.
HBA-HBZ	Switzerland.	ULA-ULZ	Luxemburg.
HCA-HCZ	Ecuador.	UNA-UNZ	Kingdom of Serbs, Croats and Slovenes (Yugoslavia).
HHA-HHZ	Haiti.	UOA-UOZ	Austria.
HIA-HIZ	Dominican Republic.	UWA-UZZ	} Canada
HJA-HKZ	Colombia.	VAA-VGZ	
HRA-HRZ	Honduras.	VHA-VMZ	Australia.
HSA-HSZ	Siam.	VOA-VOZ	Newfoundland.
HVA-HVZ	Vatican City.	VPA-VSZ	British colonies and protectorates.
I	Italy and colonies	VTA-VWZ	British India.
J	Japan.	W	United States of America.
K	United States of America.	XAA-SFZ	Mexico.
LAA-LNZ	Norway.	XGA-XUZ	China.
LOA-LVZ	Argentina.	YAA-YAZ	Afghanistan.
LZA-LZZ	Bulgaria.	YHA-YHZ	New Hebrides.
M	Great Britain.	YIA-YIZ	Iraq.
N	United States of America.	YLA-YLZ	Latvia.
OAA-OBZ	} Peru.	YMA-YMZ	Free City of Danzig.
OCA-OCZ			YNA-YNZ
OFA-OGZ	} Finland.	YSA-YSZ	Republic of El Salvador.
OHA-OHZ			YVA-YVZ
OKA-OKZ	Czechoslovakia.	ZAA-ZAZ	Albania.
ONA-OTZ	Belgium and colonies.	ZBA-ZHZ	British colonies and protectorates.
OUA-OZZ	Denmark.	ZKA-ZMZ	New Zealand.
PAA-PIZ	Netherlands.	ZPA-ZPZ	Paraguay.
PJA-PJZ	Curacao.	ZSA-ZUZ	Union of South Africa.
PKA-POZ	Dutch East Indies.		



## COMMERCIAL TELEPHONE STATIONS

No regular schedule is in effect on Commercial Telephone Stations. They operate only when testing or handling traffic, but one or more of them can always be tuned in most any time of the day. Some of these stations occasionally relay programs of general interest for entertainment of the public.

Distance hunters are respectfully requested by managers of these stations not to write them for confirmation of reception of transmissions, because other more important matters make it impossible to give proper attention to voluminous confirmation correspondence.

### TELEPHONE STATIONS BY CALL

Call	Kilo-cycles	Location	Call	Kilo-cycles	Location
CEC	19740	La Granja, Chile	GBW	18130	Rugby, England
CGA	9345	Drummondville, Ont.	GBX	16165	Rugby, England
CGA	11530	Drummondville Ont.	KIO	11670	Kahuku, Hawaii
CGA	18170	Drummondville, Ont.	KQJ	18060	Bolinas, California
DHC	10160	Nauen, Germany	LSJ	15010	Monte Grande, Arg.
DHC	11435	Nauen, Germany	LSG	19950	Monte Grande, Arg.
DHO	20040	Nauen, Germany	LSN	10300	Buenos Aires, Arg.
DIH	19950	Nauen, Germany	PCL	16300	Kootwijk, Holland
EAJ1	15760	Barcelona, Spain	PCP	10800	Kootwijk, Holland
EAO	9830	Madrid, Spain	PCT	10330	Kootwijk, Holland
F8BZ	7775	Paris, France	PCV	17830	Kootwijk, Holland
F8BZ	13620	Paris, France	PDM	18600	Kootwijk, Holland
FTE	18240	St. Assise, France	PLE	18860	Bandoeng, Java
FTK	15875	St. Assise, France	PLM	12795	Bandoeng, Java
FTL	9840	St. Assise, France	PLR	10400	Malabar, Java
FTM	19355	St. Assise, France	PMC	18150	Bandoeng, Java
FTN	12250	St. Assise, France	PPU	19250	Rio de Janeiro, Brazil
FTU	19830	St. Assise, France	TJW	9500	Hamilton, Bermuda
FZA	18365	Saigon, Indo-China	WLO	16250	Lawrence, N. J.
FZR	16200	Saigon, Indo-China	WMI	9830	Deal, N. J.
G2AA	8440	London, England	WMI	14620	Deal, N. J.
GBJ	18620	Bodmin, England	WMI	19780	Deal, N. J.
GBK	9255	Bodmin, England	WNC	14470	Deal, N. J.
GBK	18120	Bodmin, England	WNC	19220	Deal, N. J.
GBS	6995	Rugby, England	WND	9175	Deal, N. J.
GBS	9020	Rugby, England	WND	13440	Deal, N. J.
GBS	12150	Rugby, England	WND	18350	Deal, N. J.
GBS	18350	Rugby, England	WOO	17110	Deal, N. J.
GBU	9840	Rugby, England	ZP1	1135	Asuncion, Paraguay
GBU	12900	Rugby, England	ZP3	1000	Asuncion, Paraguay
GBU	18610	Rugby, England	ZP4	1275	Asuncion, Paraguay
GBW	9805	Rugby, England	ZP5	1465	Asuncion, Paraguay
GBW	14480	Rugby, England			

### TELEPHONE STATIONS BY KILOCYCLES

Kilo-cycles	Call	Location	Kilo-cycles	Call	Location
20040	DHO	Nauen, Germany	14470	WMC	Deal, N. J.
19950	LSG	Monte Grande, Arg.	13620	F8BZ	Paris, France
19950	DIH	Nauen, Germany	13440	WND	Deal, N. J.
19830	FTU	St. Assise, France	12295	PLM	Bandoeng, Java
19780	WMI	Deal, N. J.	12490	GBU	Rugby, England
19740	CEC	La Granja, Paraguay	12250	FTN	St. Assise, France
19355	FTM	St. Assise, France	12150	GBS	Rugby, England
19250	PPU	Rio de Janeiro, Brazil	11670	KIO	Kahuku, Hawaii
19220	WNC	Deal, N. J.	11530	CGA	Drummondville, Ont.
18860	PLE	Bandoeng, Java	11435	DHC	Nauen, Germany
18620	GHJ	Bodmin, England	10800	PCP	Kootwijk, Holland
18610	GBU	Rugby, England	10400	PLR	Malabar, Java
18600	PDM	Kootwijk, Holland	10330	PCT	Kootwijk, Holland
18365	FZA	Saigon, Indo-China	10300	LSN	Buenos Aires, Arg.
18350	WND	Deal, N. J.	10160	DHC	Nauen, Germany
18350	GBS	Rugby, England	9840	FTL	St. Assise, France
18240	FTE	St. Assise, France	9840	GBU	Rugby, England
18170	CGA	Drummondville, Ont.	9830	EAO	Madrid, Spain
18150	PMC	Bandoeng, Java	9830	WMI	Deal, N. J.
18130	GBW	Rugby, England	9805	GBW	Rugby, England
18120	GBK	Bodmin, England	9500	TJW	Hamilton, Bermuda
18060	KQJ	Bolinas, California	9345	CGA	Drummondville, Ont.
17830	PCV	Kootwijk, Holland	9255	GBK	Bodmin, England
17110	WOO	Deal, N. J.	9175	WND	Deal, N. J.
16300	PCL	Kootwijk, Holland	9020	GBS	Rugby, England
16250	WLO	Lawrence, N. J.	8440	G2AA	London, England
16200	FZR	Saigon, Indo-China	7775	F8BZ	Paris, France
16165	GBX	Rugby, England	6995	GBS	Rugby, England
15875	FTK	St. Assise, France	1465	ZP5	Asuncion, Paraguay
15760	EAJ1	Barcelona, Spain	1275	ZP4	Asuncion, Paraguay
15010	LSJ	Monte Grande, Arg.	1135	ZP1	Asuncion, Paraguay
14620	WMI	Deal, N. J.	1000	ZP3	Asuncion, Paraguay
14480	GBW	Rugby, England			

# UNITED STATES POLICE BROADCASTING STATIONS

Dial Call	Kilo-cycles	Meters	Location	Dial Call	Kilo-cycles	Meters	Location
KGJX	1712	175.23	Pasadena, Cal.	WNDA	2442	123.00	Miami, Fla.
KGOZ	2470	121.50	Cedar Rapids, Ia.	WPDA	2416	124.17	Tulare, Cal.
KGPA	2416	124.17	Seattle, Wash.	WPDB	1712	175.23	Chicago, Ill.
KGPB	2416	124.17	Minneapolis, Minn.	WPDC	1712	175.23	Chicago, Ill.
KGPC	1712	175.23	St. Louis, Mo.	WPDD	1712	175.23	Chicago, Ill.
KGPD	2410	124.50	San Francisco, Cal.	WPDE	2440	123.00	Louisville, Ky.
KGPE	2422	123.86	Kansas City, Mo.	WPDF	2440	123.00	Flint, Mich.
KGPG	2410	124.50	Vallejo, Cal.	WPDG	2458	122.05	Youngstown, Ohio
KGPH	2452	122.34	Okla. City, Okla.	WPDH	2416	124.17	Richmond, Ind.
KGPI	2470	121.50	Omaha, Neb.	WPDI	2416	124.17	Columbus, Ohio
KGPJ	1712	175.23	Beaumont, Texas	WPDJ	2442	123.00	Passaic, N. J.
KGPK	2470	121.50	Sioux City, Iowa	WPKD	2452	122.34	Milwaukee, Wis.
KGPL	1712	175.23	Los Angeles, Cal.	WPDL	2440	123.00	Lansing, Mich.
KGPM	2470	121.50	San Jose, Cal.	WPDM	2416	124.17	Dayton, Ohio
KGPN	2470	121.50	Davenport, Ia.	WPDN	2458	122.05	Auburn, N. Y.
KGPO	2450	122.40	Tulsa, Okla.	WPDO	2458	122.05	Akron, Ohio
KGPP	2416	124.17	Portland, Oregon	WPDP	2440	123.00	Philadelphia, Pa.
KGPQ	2452	122.35	Honolulu, T. H.	WPDR	1712	175.23	Rochester, N. Y.
KGPR	1712	175.23	Ft. Worth, Texas	WPDS	2416	124.17	St. Paul, Minn.
KGPS	2416	124.17	Bakersfield, Cal.	WPDT	2470	121.50	Kokomo, Ind.
KGPV	2506	180.51	Des Moines, Ia.	WPDU	1712	175.23	Pittsburgh, Pa.
KGPW	2470	121.50	Salt Lake Cy., Utah	WPDV	2458	122.05	Charlotte, N. C.
KGPX	2442	122.8	Denver, Colo.	WPDW	2410	124.50	Washington, D. C.
KGPY	1574	119.10	Shreveport, La.	WPDX	2410	124.50	Detroit, Mich.
KGPZ	2452	122.3	Wichita, Kan.	WPDY	2452	122.34	Atlanta, Ga.
KGZA	2416	124.2	Fresno, Cal.	WPDZ	2470	121.50	Fort Wayne, Ind.
KGZB	1712	175.2	Houston, Texas	WPEA	2458	122.2	Syracuse, N. Y.
KGZC	2422	123.86	Topeka, Kans.	WPEB	2440	123.00	Gr. Rapids, Mich.
KGZD	2430	123.00	San Diego, Calif.	WPEC	2470	121.50	Memphis, Tenn.
KIDA	1558	199.50	Seattle, Wash.	WPED	1712	175.2	Arlington, Mass.
KSW	2410	124.50	Berkeley, Cal.	WPEE	2450	122.4	Brooklyn, N. Y.
KVP	1712	175.23	Dallas, Texas	WPEF	2450	122.4	New York, N. Y.
WBA	257	1165.00	Harrisburg, Pa.	WPEH	1712	175.23	Somerville, Mass.
WBR	257	1165.00	Butler, Pa.	WPEI	1712	175.23	Providence, R. I.
WCF	1596	187.97	New York, N. Y.	WPEJ	1712	175.23	Brookline, Mass.
WCK	2410	124.50	Detroit, Mich.	WPEG	2450	122.4	New York, N. Y.
WDX	257	1165.00	Wyoming, Pa.	WPEK	2452	122.4	Milwaukee, Wis.
WEY	1596	187.97	Boston, Mass.	WPEX	2430	123.00	New Orleans, La.
WJL	257	1165.00	Greensburg, Pa.	WPY	438	685.00	New York, N. Y.
WKDT	1596	187.97	Detroit, Mich.	WPY	500	600.00	New York, N. Y.
WKDU	1172	175.23	Cincinnati, Ohio	WRBH	2452	122.34	Cleveland, Ohio
WMB	257	1165.00	West Reading, Pa.	WRDQ	2470	121.50	Toledo, Ohio
WMDZ	2440	123.00	Indianapolis, Ind.	WRDR	2410	124.50	Gr. Pt. Vil., Mich.
WMJ	2422	123.86	Buffalo, N. Y.	WRDS	1662	180.51	Ingham, Mich.
WMO	2410	124.50	Highland Pk., Mich	WRDU	1596	187.97	Brooklyn, N. Y.
WMP	1662	180.51	Framingham, Mass				

## UNITED STATES TELEVISION STATIONS

Television is not yet ready for the general public, yet there are numerous Television Broadcasting Stations sending out experimental programs and while they may not be classed as of entertaining value to all, they are of intense interest to the experimenter.

Station Call	K.C. From	K.C. To	Meters	Location
W1XAU	1400	1500	193.	Boston, Mass.
W1XAV	2850	2950	101.	Boston, Mass.
W2XAB	2650	2750	109.	New York, New York
W2XBC	2650	2750	109.	Long Island City, N. Y.
W2XBU	1900	2000	150.	Beacon, New York
W2XCD	1900	2000	150.	Passaic, N. J.
W2XCR	2000	2100	142.	Jersey City, N. J.
W2XCR	1900	2000	150.	Jersey City, N. J.
W2XCW	2000	2100	142.	Schenectady, N. Y.
W2XDA	1444	1544	194.	New York, New York
W2XDS	42900	43000	6.	New York, New York
W2XDS	48400	48500	6.	New York, New York
W2XDS	59900	60000	5.	New York, New York
W2XF	42900	43000	6.	New York, New York
W2XF	48400	48500	6.	New York, New York
W2XF	59900	60000	5.	New York, New York
W2XR	2750	2850	105.	Long Island City, N. Y.
W3XAD	42900	43000	6.	Camden, N. J.
W3XAD	48400	48500	6.	Camden, N. J.
W3XAD	59900	60000	5.	Camden, N. J.
W3XAD	2000	2100	142.	Camden, N. J.
W3XK	1900	2000	150.	Wheaton, Md.
W6X4H	1900	2000	150.	Bakersfield, Calif.
W6XAO	42900	43000	6.	Los Angeles, Calif.
W6XS	2000	2100	142.	Los Angeles, Calif.
W8XAV	2000	2100	142.	Pittsburgh, Pa.
W9XAA	2650	2750	109.	Chicago, Illinois
W9XAB	1464	1564	191.	Chicago, Illinois
W9XAO	1900	2000	150.	Chicago, Illinois
W9XAP	2000	2100	142.	Chicago, Illinois
W9XD	42900	43000	6.	Milwaukee, Wis.
W9XD	48400	48500	6.	Milwaukee, Wis.
W9XD	59900	60000	6.	Milwaukee, Wis.
W9XG	2650	2750	109.	W. Lafayette, Ind.
W9XR	2750	2850	105.	Chicago, Illinois

## AMATEUR WAVELENGTHS

For those who may be interested in listening to Amateur Telephone and Telegraph activities, we have listed below the wavelengths on which Amateur Operators transmit.

### Amateur Telegraph Bands

K.C. From	K.C. To	
1750	2000	Night 160 meters
3500	4000	Night 80 meters
7000	7300	Day or Night 40 meters
14000	14400	Day 20 meters
28000	30000	Experimental 10 meters
56000	60000	Experimental 5 meters

### Amateur Telephone Bands

K.C. From	K.C. To	
1875	2000	Night 160 meters
3900	4000	Special Night 80 meters
14150	14250	Special Day 20 meters
56000	60000	Experimental 5 meters

# HOW TO LEARN THE INTERNATIONAL CODE

Have you heard those dots and dashes on your short-wave receiver? Of course you have and probably wondered what they were all about. Some of them were stations sending out radio compass bearings to ships at sea,—The Navy transmitting orders to the fleets,—Messages from every country in the world, and some of international importance. Why not learn the Code? It's easy. All that is required to master the International Morse Code is patience and a little concentration. Peck your finger on the table—this is the timing of a dot. Let your finger hesitate about two seconds—this is the timing of a dash.

A Dot is orally called "Dit" and a Dash is orally called "Dah." Notice the letter "A." That is Dot Dash or "Dit Dah." Read the complete alphabet (Fig. 2) and concentrate on it for about 10 minutes. Now you are ready to proceed.

In Fig. 1 the code is also complete, but is given in Groups as we shall learn it. The first group is "E-I-S-H." "E" is one dot, "I" is two dots, "S" is three dots and "H" is four dots. Say them over to yourself several times. Now study the second group "T-M-O." "T" is one dash, "M" is two dashes and "O" is three dashes. Repeat these characters to yourself until you can recall them at will. The third group, "A-W-J" will be found just as easy to learn and, after learning each group, repeat all you have memorized to that point. Continue on until you have committed the entire eleven groups to memory.

1st Group	E	•
	I	••
	S	•••
	H	••••
2nd Group	T	—
	M	— —
	O	— — —
3rd Group	A	— •
	W	— • —
	J	— • — —
4th Group	N	— ••
	D	— •••
	B	— ••••
5th Group	R	— •••
	L	— ••••
6th Group	K	— •• —
	Y	— •• — —
7th Group	U	— •• —
	V	— ••• —
8th Group	G	— — —
	Z	— — — •
9th Group	P	— •• — •
	X	— ••• —
10th Group	F	— •• — •
	Q	— — — ••
11th Group	C	— •• — •

NOTE: A dash is three times longer in duration than a dot.

Fig. 1.

See if you can repeat the alphabet starting with "A." Now try to repeat starting with "Z" and going backwards. When repeating the letters to yourself, without reference to Figures 1 and 2, do not consult chart and then give the letters missed the greatest study.

## PUNCTUATION AND PROCEDURE

Fig. 3 contains the remaining characters necessary to decipher the average Code message. It is not necessary to learn these by the group method, because you are now sufficiently experienced to remember characters of dots and dashes.

Numbers, Punctuation and Procedure characters are easy to learn if those most commonly used are learned first. For instance, the numbers, period, comma, and question mark should be learned first. Then the colon, semi-colon and hyphen should follow.

A station calling another will usually call three times and sign its call letters. For instance, "WOO-WOO-WOO-de-WOD-ar." "De" means FROM. "Ar" means END OF MESSAGE OR CALL. The answering stations will repeat the same procedure excepting ending with "K." "K" in this form means GO AHEAD AND TRANSMIT. When each Station is through transmitting it will end in the following manner: "WOO de WOD ar SK, or VA." "SK" and "VA" each have the same number of dots and dashes and mean the same thing.

A message is usually transmitted in the following form:

"WOD de WOO, Hr. msg no 121 ck 10 fm New York, N. Y. file 235 P date to John Jones, S. S. Majestic. Will meet you at dock sig Jack Doe ar k."

The receiving operator then OK's the message with his initial or assigned letter, as "WOD de WOO R JU ar."

The transmitting station, if there is no more traffic, will end the communication as follows: "WOO de WOD NM ar VA."

By listening to the commercial and amateur stations transmitting Code messages one soon becomes thoroughly familiar with the manner in which traffic is handled and improves his receiving speed to the point where he may decipher all transmission. Knowing the Code makes Short-Wave reception really thrilling.





# LOG YOUR STATIONS HERE

Dial	Call	Kilo-cycle	Power	City	Dial	Call	Kilo-cycle	Power	City
	KID	1320	†500	Idaho Falls, Idaho		KTAB	560	1000	San Francisco, Cal.
	KIDO	1350	1000	Boise, Idaho		KTAR	620	†500	Phoenix, Ariz.
	KIT	1310	100	Yakima, Wash.		KTAT	1240	1000	Fort Worth, Tex.
	KJBS	1070	100	San Francisco, Cal.		KTBR	1300	500	Portland, Oregon
	KJR	970	5000	Seattle, Wash.		KTBS	1450	1000	Shreveport, La.
	KLCN	1290	*50	Blytheville, Ark.		KTFI	1240	†250	Twin Falls, Idaho
	KLO	1400	500	Ogden, Utah		KTHS	1040	10000	Fort Springs, Ark.
	KLPM	1240	250	Minot, N.D.		KTLC	1310	100	Houston, Texas
	KLRA	1390	1000	Little Rock, Ark.		KTM	780	†500	Los Angeles, Cal.
	KLS	1440	*250	Oakland, Cal.		KTRH	1120	500	Houston, Texas
	KLX	880	500	Oakland, Cal.		KTSA	1290	†1000	San Antonio, Tex.
	KLZ	560	1000	Denver, Colo.		KTSL	1310	100	Shreveport, La.
	KMA	930	†500	Shenandoah, Ia.		KTSM	1310	100	El Paso, Tex.
	KMAC	1370	100	San Antonio, Tex.		KTW	1220	‡1500	Seattle, Wash.
	KMBC	950	1000	Kansas City, Mo.		KUJ	1370	100	Walla Walla, Wash.
	KMED	1310	100	Medford, Oregon		KUOA	1390	1000	Fayetteville, Ark.
	KMJ	1210	100	Fresno, Cal.		KUSD	890	500	Vermillion, S.D.
	KMLB	1200	*100	Monroe, La.		KVI	760	1000	Tacoma, Wash.
	KMMJ	740	*1000	Clay Center, Nebr.		KVL	1370	100	Seattle, Wash.
	KMO	1330	250	Tacoma, Wash.		KVOA	1260	500	Tucson, Ariz.
	KMOX	1090	50000	St. Louis, Mo.		KVOO	1140	5000	Tulsa, Okla.
	KMPC	710	500	Beverly Hills, Cal.		KVOR	1270	1000	Colo. Springs, Col.
	KMTR	570	500	Hollywood, Cal.		KVOS	1200	100	Bellingham, Wash.
	KNOW	1500	100	Austin, Texas		KWCR	1420	100	Cedar Rapids, Ia.
	KNX	1050	25000	Hollywood, Cal.		KWEA	1210	100	Shreveport, La.
	KOA	830	12500	Denver, Colo.		KWG	1200	100	Stockton, Calif.
	KOAC	550	1000	Corvallis, Oregon		KWJJ	1060	500	Portland, Oregon
	KOB	1180	10000	Albuquerque, N.M.		KWK	1350	1000	St. Louis, Mo.
	KOCW	1400	†250	Chickasha, Okla.		KWKC	1370	100	Kansas City, Mo.
	KOH	1380	500	Reno, Nev.		KWKH	850	10000	Shreveport, La.
	KOIL	1260	1000	Council Bluffs, Ia.		KWLC	1270	*100	Decorah, Iowa
	KOIN	940	1000	Portland, Oregon		KWSC	1220	†1000	Pullman, Wash.
	KOL	1270	1000	Seattle, Wash.		KWWG	1260	500	Brownsville, Tex.
	KOMO	920	1000	Seattle, Wash.		KXA	570	500	Seattle, Wash.
	KONO	1370	100	San Antonio, Tex.		KXL	1420	100	Portland, Oregon
	KOOS	1370	100	Marshfield, Ore.		KXO	1500	100	El Centro, Cal.
	KORE	1420	100	Eugene, Oregon		KXRO	1310	100	Aberdeen, Wash.
	KOY	1390	500	Phoenix, Ariz.		KXYZ	1420	100	Houston, Texas
	KPCB	650	100	Seattle, Wash.		KYA	1230	1000	San Francisco, Cal.
	KPJM	1500	100	Prescott, Ariz.		KYW	1020	10000	Chicago, Ill.
	KPO	680	5000	San Francisco, Cal.		KZRM	620	50000	Manila, P. I.
	KPOF	880	500	Denver, Colo.		WAAB	1410	500	Boston, Mass.
	KPPC	1210	50	Pasadena, Calif.		WAAF	920	*500	Chicago, Ill.
	KPQ	1500	50	Wenatchee, Wash.		WAAM	1250	†1000	Newark, N.J.
	KPRC	920	†1000	Houston, Texas		WAAT	940	*300	Jersey City, N.J.
	KQV	1380	500	Pittsburgh, Pa.		WAAW	660	*500	Omaha, Nebr.
	KQW	1010	500	San Jose, Calif.		WABC	860	50000	New York, N.Y.
	KRE	1370	100	Berkeley, Calif.		WABI	1200	†100	Bangor, Maine
	KREG	1500	100	Santa Ana, Calif.		WABO	1430	500	Rochester, N.Y.
	KRGV	1260	500	Harlingen, Texas		WABZ	1200	100	New Orleans, La.
	KRKD	1120	500	Los Angeles, Cal.		WACO	1240	1000	Waco, Tex.
	KRLD	1040	10000	Dallas, Texas		WADC	1320	1000	Akron, Ohio
	KRMD	1310	50	Shreveport, La.		WAGM	1420	100	Presque Isle, Maine
	KROW	930	†500	Oakland, Calif.		WAIU	640	500	Columbus, Ohio
	KRSC	1120	100	Seattle, Wash.		WALR	1210	100	Zanesville, Ohio
	KSAC	580	†500	Manhattan, Kans.		WAPI	1140	5000	Birmingham, Ala.
	KSCJ	1330	†1000	Sioux City, Iowa		WASH	1270	500	Gr. Rapids, Mich.
	KSD	550	500	St. Louis, Mo.		WAWZ	1350	250	Zarephath, N. J.
	KSEI	900	500	Pocatello, Idaho		WBAA	1400	†500	W. La Fayette, Ind.
	KSL	1130	5000	Salt Lake C., Utah		WBAK	1430	†500	Harrisburg, Pa.
	KSO	1380	500	Clarinda, Iowa		WBAL	1060	10000	Baltimore, Md.
	KSOO	1110	2500	Sioux Falls, S.D.		WBAP	800	10000	Fort Worth, Tex.
	KSTP	1460	10000	St. Paul-Minneapolis		WBAX	1210	100	Wilkes-Barre, Pa.

\* Daytime only. ‡ Sunday only.

† Higher power daytime.

# LOG YOUR STATIONS HERE

Dial	Call	Kilo-cycle	Power	City	Dial	Call	Kilo-cycle	Power	City
	WBBC	1400	500	Brooklyn, N.Y.		WDAS	1370	†100	Philadelphia, Pa.
	WBBL	1210	100	Richmond, Va.		WDAY	940	1000	Fargo, N.D.
	WBBM	770	25000	Chicago, Ill.		WDBJ	930	†250	Roanoke, Va.
	WBBR	1300	1000	Brooklyn, N.Y.		WDBO	1120	†500	Orlando, Fla.
	WBBZ	1200	100	Ponca City, Okla.		WDEL	1120	†250	Wilmington, Del.
	WBCM	1410	500	Bay City, Mich.		WDEV	1420	*50	Waterbury, Vt.
	WBEN	900	1000	Buffalo, N.Y.		WDGY	1180	1000	Minneapolis, Minn.
	WBEO	1310	100	Marquette, Mich.		WDOD	1280	†1000	Chattanooga, Tenn.
	WBGF	1370	50	Glens Falls, N. Y.		WDRC	1330	500	Hartford, Conn.
	WBHS	1200	50	Huntsville, Ala.		WDSU	1250	1000	New Orleans, La.
	WBIG	1440	1000	Greensboro, N.C.		WDZ	1070	*100	Tuscola, Ill.
	WBIS	1230	*1000	Boston, Mass.		WEAF	660	50000	New York, N.Y.
	WBMS	1450	250	Hackensack, N.J.		WEAI	1270	*1000	Ithaca, N.Y.
	WBNX	1350	250	New York, N.Y.		WEAN	780	†250	Providence, R.I.
	WBOQ	860	50000	New York N. Y.		WEAO	570	750	Columbus, Ohio
	WBOW	1310	100	Terre Haute, Ind.		WEBC	1290	†1000	Duluth-Superior
	WBRC	930	†500	Birmingham, Ala.		WEBQ	1210	100	Harrisburg, Ill.
	WBRE	1310	100	Wilkes-Barre, Pa.		WEBR	1310	†100	Buffalo, N.Y.
	WBRL	1430	500	Tilton, N.H.		WEDC	1210	100	Chicago, Ill.
	WBSO	920	*500	Babson Park, Mass.		WEEI	590	1000	Boston, Mass.
	WBT	1080	50000	Charlotte, N.C.		WEEU	830	*1000	Reading, Pa.
	WBTM	1370	100	Danville, Va.		WEHC	1350	*500	Emory, Va.
	WBZ	990	25000	Boston, Mass.		WEHS	1420	100	Cicero, Ill.
	WBZA	990	1000	Springfield, Mass.		WELL	1320	50	Battle Creek, Mich.
	WCAC	600	250	Storrs, Conn.		WENC	1420	100	Americus, Ga.
	WCAD	1220	*500	Canton, N.Y.		WENR	870	50000	Chicago, Ill.
	WCAE	1220	1000	Pittsburgh, Pa.		WEPS	1200	100	Worcester, Mass.
	WCAH	1430	500	Columbus, Ohio		WERE	1420	100	Eric, Pa.
	WCAJ	590	500	Lincoln, Nebr.		WEVD	1300	500	New York, N.Y.
	WCAL	1250	1000	Northfield, Minn.		WEW	760	*1000	St. Louis, Mo.
	WCAM	1280	500	Camden, N. J.		WEXL	1310	100	Royal Oak, Mich.
	WCAO	600	250	Baltimore, Md.		WFAA	800	50000	Dallas, Texas
	WCAP	1280	500	Asbury Pk., N.J.		WFAB	1300	1000	New York, N. Y.
	WCAT	1200	100	Rapid City, S.D.		WFAM	1200	100	South Bend, Ind.
	WCAU	1170	10000	Philadelphia, Pa.		WFAN	610	500	Philadelphia, Pa.
	WCAX	1200	100	Burlington, Vt.		WFAR	1300	1000	New York, N.Y.
	WCAZ	1070	*50	Carthage, Ill.		WFBC	1200	50	Knoxville, Tenn.
	WCBA	1440	250	Allentown, Pa.		WFBE	1200	†100	Cincinnati, Ohio
	WCBD	1080	5000	Zion, Ill.		WFBG	1310	100	Altoona, Pa.
	WCBM	1370	†100	Baltimore, Md.		WFBL	1360	†1000	Syracuse, N.Y.
	WCBS	1210	100	Springfield, Ill.		WFBM	1230	1000	Indianapolis, Ind.
	WCCO	810	50000	Minneap. St. Paul		WFBR	1370	1000	Baltimore, Md.
	WCDA	1350	250	New York, N.Y.		WFDF	1310	100	Flint, Mich.
	WCFL	970	1500	Chicago, Ill.		WFDV	1310	100	Rome, Ga.
	WCGU	1400	500	Brooklyn, N.Y.		WFDW	1420	100	Anniston, Ala.
	WCHI	1490	5000	Chicago, Ill.		WFEA	1430	500	Manchester, N. H.
	WCKY	1490	5000	Covington, Ky.		WFI	560	500	Philadelphia, Pa.
	WCLB	1500	100	Long Beach, N.Y.		WFIW	940	1000	Hopkinsville, Ky.
	WCLO	1200	100	Janesville, Wis.		WFLA	620	†1000	Clearwater, Fla.
	WCLS	1310	100	Joliet, Ill.		WFOX	1400	500	Brooklyn, N. Y.
	WCMA	1400	500	Culver, Ind.		WGAL	1310	100	Lancaster, Pa.
	WCOA	1340	500	Pensacola, Fla.		WGAR	1450	500	Cleveland, Ohio
	WCOC	880	†500	Meridian, Miss.		WGBB	1210	100	Freeport, N.Y.
	WCOD	1200	100	Harrisburg, Pa.		WGBC	1430	500	Memphis, Tenn.
	WCOH	1210	100	Yonkers, N.Y.		WGBF	630	500	Evansville, Ind.
	WCOT	1330	100	Providence, R.I.		WGBI	880	250	Scranton, Pa.
	WCRW	1210	100	Chicago, Ill.		WGBS	1180	†250	New York, N.Y.
	WCSC	1360	500	Charleston, S. C.		WGCM	590	1000	Gulfport, Miss.
	WCSH	940	2500	Portland, Me.		WGCP	1250	250	Newark, N.J.
	WDAE	1220	1000	Tampa, Fla.		WGES	1360	500	Chicago, Ill.
	WDAF	610	1000	Kansas City, Mo.		WGH	1310	100	Newport News, Va.
	WDAG	1410	1000	Amarillo, Texas		WGL	1370	100	Ft. Wayne, Ind.
	WDAH	1310	100	El Paso, Texas					

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† Higher power daytime



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Dial	Call	Kilo-cycle	Power	City	Dial	Call	Kilo-cycle	Power	City
	WGMS	1250	1000	Minneapolis, Minn.		WJBU	1210	100	Lewisburg, Pa.
	WGN	720	25000	Chicago, Ill.		WJBW	1200	100	New Orleans, La.
	WGR	550	1000	Buffalo, N.Y.		WJBY	1210	100	Gadsden, Ala.
	WGST	890	†250	Atlanta, Ga.		WJDX	1270	1000	Jackson, Miss.
	WGY	790	50000	Schenectady, N.Y.		WJJD	1130	20000	Chicago, Ill.
	WHA	940	*750	Madison, Wis.		WJKS	1360	†1000	Gary, Ind.
	WHAD	1120	250	Milwaukee, Wis.		WJMS	1420	*100	Ironwood, Mich.
	WHAM	1150	5000	Rochester, N.Y.		WJR	750	10000	Detroit, Mich.
	WHAS	820	10000	Louisville, Ky.		WJSV	1460	10000	Mt. Vernon H's, Va.
	WHAT	1310	100	Philadelphia, Pa.		WJTL	1370	100	Oglethorpe U., Ga.
	WHAZ	1300	*500	Troy, N.Y.		WJW	1210	100	Mansfield, Ohio
	WHB	860	*500	Kansas City, Mo.		WJZ	760	30000	New York, N.Y.
	WHBC	1200	±10	Canton, Ohio		WKAQ	950	1000	San Juan, P. R.
	WHBD	1370	100	Mt. Orab, Ohio		WKAR	1040	*1000	E. Lansing, Mich.
	WHBF	1210	100	Rock Island, Ill.		WKAV	1310	100	Laconia, N.H.
	WHBL	1410	500	Sheboygan, Wis.		WKBB	1310	100	Joliet, Ill.
	WHBQ	1370	100	Memphis, Tenn.		WKBC	1310	100	Birmingham, Ala.
	WHBU	1210	100	Anderson, Ind.		WKBF	1400	500	Indianapolis, Ind.
	WHBY	1200	100	Green Bay, Wis.		WKBH	1380	1000	LaCrosse, Wis.
	WHDF	1370	†100	Calumet, Mich.		WKBI	1420	100	Cicero, Ill.
	WHDH	830	1000	Boston, Mass.		WKBN	570	500	Youngstown, Ohio
	WHDL	1420	*100	Tupper Lake, N.Y.		WKBS	1310	100	Galesburg, Ill.
	WHEB	740	250	Portsmouth, N. H.		WKBV	1500	100	Connersville, Ind.
	WHEC	1440	500	Rochester, N.Y.		WKBW	1480	5000	Buffalo, N.Y.
	WHEF	1500	100	Kosciusko, Miss.		WKBZ	1500	50	Ludington, Mich.
	WHFC	1420	100	Cicero, Ill.		WKJC	1200	100	Lancaster, Pa.
	WHIS	1410	250	Bluefield, W.Va.		WKRC	550	1000	Cincinnati, Ohio
	WHK	1390	1000	Cleveland, Ohio		WKY	900	1000	Okla. City, Okla.
	WHN	1010	250	New York, N.Y.		WKZO	590	1000	Kalamazoo, Mich.
	WHO	1000	5000	Des Moines, Iowa		WLAC	1470	5000	Nashville, Tenn.
	WHOM	1450	250	Jersey City, N.J.		WLAP	1200	†100	Louisville, Ky.
	WHP	1430	†500	Harrisburg, Pa.		WLB	1250--	100	Minneapolis, Minn.
	WIAS	1310	100	Ottumwa, Iowa		WLBC	1310	50	Muncie, Ind.
	WIBA	1280	†500	Madison, Wis.		WLBF	1420	100	Kansas City, Kans.
	WIBG	930	*25	Elkins Park, Pa.		WLBG	1200	†100	Petersburg, Va.
	WIBM	1370	100	Jackson, Mich.		WLBL	900	*2000	Stevens Point, Wis.
	WIBO	560	†1000	Chicago, Ill.		WLBW	1260	†500	Eric, Pa.
	WIBR	1420	50	Steubenville, Ohio		WLBX	1500	100	Long I. City, N.Y.
	WIBU	1210	100	Poynette, Wis.		WLBZ	620	500	Bangor, Me.
	WIBW	580	1000	Topeka, Kansas		WLCI	1210	±50	Ithaca, N.Y.
	WIBX	1200	†100	Utica, N.Y.		WLEY	1370	†100	Lexington, Mass.
	WICC	600	†250	Bridgeport, Conn.		WLIT	560	500	Philadelphia, Pa.
	WIL	1200	†100	St. Louis, Mo.		WLOE	1500	†100	Boston, Mass.
	WILL	890	†250	Urbana, Ill.		WLS	870	50000	Chicago, Ill.
	WILM	1420	100	Wilmington, Del.		WLTH	1400	500	Brooklyn, N.Y.
	WINR	1210	100	Bayshore, N.Y.		WLVA	1370	100	Lynchburg, Va.
	WINS	1180	500	New York, N.Y.		WLW	700	50000	Cincinnati, Ohio
	WIOD	1300	1000	Miami, Fla.		WLWL	1100	5000	New York, N.Y.
	WIP	610	500	Philadelphia, Pa.		WMAC	570	250	Syracuse, N.Y.
	WIS	1010	†500	Columbia, S.C.		WMAL	630	†250	Washington, D.C.
	WISN	1120	250	Milwaukee, Wis.		WMAQ	670	5000	Chicago, Ill.
	WJAC	1310	100	Johnstown, Pa.		WMAZ	1180	500	Macon, Ga.
	WJAG	1060	*1000	Norfolk, Nebr.		WMBA	1500	100	Newport, R.I.
	WJAK	1310	50	Elkhart, Ind.		WMBB	1420	†100	Detroit, Mich.
	WJAR	890	†250	Providence, R.I.		WMBD	1440	†500	Peoria, Ill.
	WJAS	1290	†1000	Pittsburgh, Pa.		WMBF	1300	1000	Miami, Fla.
	WJAX	900	1000	Jacksonville, Fla.		WMBG	1210	100	Richmond, Va.
	WJAY	610	*500	Cleveland, Ohio		WMBH	1420	†100	Joplin, Mo.
	WJBC	1200	100	LaSalle, Ill.		WMBI	1080	5000	Chicago, Ill.
	WJBI	1210	100	Red Bank, N.J.		WMBL	1310	100	Lakeland, Fla.
	WJBK	1370	50	Detroit, Mich.		WMBQ	1310	100	Auburn, N.Y.
	WJBL	1200	100	Decatur, Ill.		WMBQ	1500	100	Brooklyn, N.Y.
	WJBO	1420	100	New Orleans, La.					

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Dial	Call	Kilo-cycle	Power	City	Dial	Call	Kilo-cycle	Power	City
	WMBR	1370	100	Tampa, Fla.		WRWW	1310	100	Reading, Pa.
	WMC	780	†500	Memphis, Tenn.		WRAX	1020	*250	Philadelphia, Pa.
	WMCA	570	500	New York, N.Y.		WRBL	1200	100	Columbus, Ga.
	WMIL	1500	100	Brooklyn, N. Y.		WRBQ	1210	†100	Greenville, Miss.
	WMMN	890	†250	Fairmont, W. Va.		WRBX	1410	250	Roanoke, Va.
	WMPC	1500	100	Lapeer, Mich.		WRC	950	500	Washington, D.C.
	WMRJ	1210	100	Jamaica, N.Y.		WRDO	1370	100	Portland, Maine
	WMSG	1350	250	New York, N.Y.		WRDW	1500	100	Augusta, Ga.
	WMT	600	500	Waterloo, Iowa		WREC	600	†500	Memphis, Tenn.
	WNAC	1230	1000	Boston, Mass.		WREN	1220	1000	Lawrence, Kan.
	WNAD	1010	500	Norman, Okla.		WRHM	1250	1000	Minneapolis-St. Paul
	WNAX	570	1000	Yankton, S.Dak.		WRJN	1370	100	Racine, Wis.
	WBNF	1500	100	Binghamton, N.Y.		WRNY	1010	250	New York, N.Y.
	WNBH	1310	100	New Bedford, Mass.		WROL	1310	100	Knoxville, Tenn.
	WNBO	1200	100	Washington, Pa.		WRR	1280	500	Dallas, Tex.
	WNBW	1430	500	Memphis, Tenn.		WRUF	830	*5000	Gainesville, Fla.
	WNBW	1200	10	Carbondale, Pa.		WRVA	1110	5000	Richmond, Va.
	WNBX	1200	10	Springfield, Vt.		WSAI	1330	500	Cincinnati, Ohio
	WNBZ	1290	*50	Saranak Lake, N.Y.		WSAJ	1310	100	Grove City, Pa.
	WNJ	1450	250	Newark, N. J.		WSAN	1440	250	Allentown, Pa.
	WNOX	560	†1000	Knoxville, Tenn.		WSAR	1450	250	Fall River, Mass.
	WNYC	570	500	New York, N.Y.		WSAZ	580	†250	Huntington, W. Va.
	WOAI	1190	50000	San Antonio, Tex.		WSB	740	50000	Atlanta, Ga.
	WOAN	600	†500	Memphis, Tenn.		WSBC	1210	100	Chicago, Ill.
	WOAX	1280	500	Trenton, N.J.		WSBT	1230	500	South Bend, Ind.
	WOBU	580	†250	Charleston, W.Va.		WSEN	1210	100	Columbus, Ohio
	WOC	1000	5000	Davenport, Iowa		WSFA	1410	500	Montgomery, Ala.
	WOCL	1210	50	Jamestown, N.Y.		WSIX	1210	100	Springfield, Tenn.
	WODA	1250	1000	Paterson, N.J.		WSJS	1310	100	Win-Salem, N.C.
	WODX	1410	500	Mobile, Ala.		WSM	650	5000	Nashville, Tenn.
	WOI	640	*5000	Ames, Iowa		WSMB	1320	500	New Orleans, La.
	WOKO	1430	500	Albany, N.Y.		WSMK	1380	200	Dayton, Ohio
	WOL	1310	100	Washington, D.C.		WSOC	1210	100	Gastonia, N.C.
	WOMT	1210	100	Manitowoc, Wis.		WSPA	1420	†100	Spartanburg, S.C.
	WOOD	1270	500	Gr. Rapids, Mich.		WSPD	1340	1000	Toledo, Ohio
	WOPI	1500	100	Bristol, Tenn.-Va.		WSUI	880	500	Iowa City, Iowa
	WOQ	1300	1000	Kansas City, Mo.		WSUN	620	†1000	St. Petersburg, Fla.
	WOR	710	50000	Newark, N.J.		WSVS	1370	50	Buffalo, N.Y.
	WORC	1200	100	Worcester, Mass.		WSYB	1500	100	Rutland, Vt.
	WORK	1000	1000	York, Pa.		WSYR	570	250	Syracuse, N.Y.
	WOS	630	500	Jefferson City, Mo.		WTAD	1440	500	Quincy, Ill.
	WOV	1130	*1000	New York, N.Y.		WTAG	580	500	Worcester, Mass.
	WOW	590	1000	Omaha, Neb.		WTAM	1070	50000	Cleveland, Ohio
	WOWO	1160	10000	Fort Wayne, Ind.		WTAQ	1330	1000	Eau Claire, Wis.
	WPAD	1420	100	Paducah, Ky.		WTAR	780	†500	Norfolk, Va.
	WPAP	1010	250	Palisades, N. J.		WTAW	1120	500	College Station, Tex
	WPCC	560	500	Chicago, Ill.		WTAX	1210	100	Springfield, Ill.
	WPCH	810	500	New York, N.Y.		WTBO	1420	†100	Cumberland, Md.
	WPEN	1500	†100	Philadelphia, Pa.		WTEL	1310	100	Philadelphia, Pa.
	WPFB	1370	100	Hattiesburg, Miss.		WTFI	1450	500	Athens, Ga.
	WPG	1100	5000	Atlantic City, N.J.		WTIC	1060	50000	Hartford, Conn.
	WPOR	780	†500	Norfolk, Va.		WTJS	1310	†100	Jackson, Tenn.
	WPRO	1210	100	Providence, R. I.		WTMJ	620	†1500	Milwaukee, Wis.
	WPSC	1230	*500	State College, Pa.		WTOC	1260	500	Savannah, Ga.
	WPTF	680	1000	Raleigh, N.C.		WTSL	1310	100	Laurel, Miss.
	WQAM	560	1000	Miami, Fla.		WWAE	1200	100	Hammond, Ind.
	WQAN	880	250	Scranton, Pa.		WWJ	920	1000	Detroit, Mich.
	WQAO	1010	250	New York, N.Y.		WWL	850	10000	New Orleans, La.
	WQBC	1360	*500	Vicksburg, Miss.		WWNC	570	1000	Asheville, N.C.
	WQBZ	1420	60	Weirton, W. Va.		WWRL	1500	100	Woodside, N.Y.
	WQDM	1370	*100	St. Albans, Vt.		WWSW	1500	100	Pittsburgh, Pa.
	WQDX	1210	100	Thomasville, Ga.		WWSA	1160	5000	Wheeling, W.Va.
	WRAC	1370	100	Williamsport, Pa.		WXYZ	1240	1000	Detroit, Mich.
	WRAM	1370	100	Wilmington, N.C.					

Daytime only. † Sunday only.

† Higher power daytime.

# CANADIAN BROADCASTING STATIONS

Dial	Call	Kilo	Power	City	Dial	Call	Kilo	Power	City
	CFAC	690	500	Calgary, Alta.		CKCI	645	100	Quebec, Que.
	CFBO	890	500	St. John, N.B.		CKCK	960	500	Regina, Sask.
	CFCA	1120	500	Toronto, Ont.		CKCL	580	500	Toronto, Ont.
	CFCF	1030	500	Montreal, Que.		CKCO	890	100	Ottawa, Ont.
	CFCH	930	100	North Bay, Ont.		CKCR	645	100	Waterloo, Ont.
	CFCN	985	10000	Calgary, Alta.		CKCV	880	50	Quebec, Que.
	CFCO	1210	250	Chatham, Ont.		CKFK	730	50	Vancouver, B.C.
	CFCT	630	50	Victoria, B.C.		CKGW	840	5000	Toronto, Ont.
	CFCY	580	500	Charlottet'n, P.E.I.		CKLC	840	1000	Red Deer, Alta.
	CFJC	1120	100	Kamloops, B.C.		CKMC	1210	100	Cobalt, Ont.
	CFLC	915	100	Prescott, Ont.		CKMO	730	100	Vancouver, B.C.
	CFNB	1210	50	Fredericton, N.B.		CKNC	960	500	Toronto, Ont.
	CFQC	910	500	Saskatoon, Sask.		CKOC	1010	1000	Hamilton, Ont.
	CFRB	690	4000	Toronto, Ont.		CKOV	1200	100	Kelowna, B. C.
	CFRC	930	†50	Kingston, Ont.		CKPC	880	100	Porton, Ont.
	CHCK	960	100	Charlottet'n, P.E.I.		CKPR	890	50	Fort William, Ont.
	CHCS	1010	500	Hamilton, Ont.		CKTB	1010	†500	St. Catherines, Ont.
	CHGS	1120	500	Summerside, P.E.I.		CKUA	580	500	Edmonton, Alta.
	CHMA	580	250	Edmonton, Alta.		CKWX	730	100	Vancouver, B.C.
	CHML	880	50	Hamilton, Ont.		CKX	540	500	Brandon, Man.
	CHNS	930	500	Halifax, N.S.		CKY	780	5000	Winnipeg, Man.
	CHRC	645	100	Quebec, Que.		CNRA	630	500	Moncton, N.B.
	CHWC	960	500	Regina, Sask.		CNRD	840	1000	Red Deer, Alta.
	CHWK	665	100	Chilliwack, B.C.		CNRH	815	500	Halifax N. S.
	CHYC	730	5000	Montreal, Que.		CNRL	910	5000	London, Ont.
	CJBC	840	5000	Toronto, Ont.		CNRM	730	5000	Montreal, Que.
	CJCA	745	500	Edmonton, Alta.		CNRO	600	500	Ottawa, Ont.
	CJCB	880	50	Sydney, N.S.		CNRQ	880	50	Quebec, Que.
	CJCJ	690	500	Calgary, Alta.		CNRR	960	500	Regina, Sask.
	CJGC	910	5000	London, Ont.		CNRS	910	500	Saskatoon, Sask.
	CJGX	630	500	Yorkton, Sask.		CNRT	1120	500	Toronto, Ont.
	CJOC	1120	100	Lethbridge, Alta.		CNRV	1030	500	Vancouver, B.C.
	CJOR	1210	†500	Vancouver, B.C.		CNRW	780	5000	Winnipeg, Man.
	CJRM	665	500	Moose Jaw, Sask.		CNRX	690	4000	Toronto, Ont.
	CJRW	665	500	Fleming, Sask.		CPRY	840	5000	Toronto, Ont.
	CKAC	730	5000	Montreal, Que.		VAS	685	2000	Glace Bay, N. S.
	CKCD	730	100	Vancouver, B.C.		VONA	950	50	St. Johns, N. F.

## MEXICAN STATIONS

Dial	Call	Kilo	Power	City	Dial	Call	Kilo	Power	City
	XEA	1000	100	Guadalajara, Jal.		XER	735	75000	Villa Acuna, Coah.
	XEB	1030	1000	Mexico, D. F.		XES	890	500	Tampico, Tams.
	XED	965	10000	Reynosa, Tams.		XET	690	500	Monterrey, N. L.
	XEF	735	75000	Villa Acuna, Coah.		XETA	1140	500	Mexico, D. F.
	XEFA	1250	250	Mexico, D. F.		XETB	1380	125	Torreon, Coah.
	XEFD	1020	300	Tijuana, B. C.		XETC	1000	100	Jalapa, Ver.
	XEFE	1000	100	N. Laredo, Tams.		XETF	630	500	Vera Cruz, Ver.
	XEFI	1000	100	Chihuahua, Chih.		XETG	1000	100	Torreon, Coah.
	XEFJ	1000	100	Monterrey, N. L.		XETH	1000	100	Puebla, Pue.
	XEFZ	1500	100	Coyoacan, D. F.		XETR	610	1000	Mexico, D. F.
	XEG	1080	100	Mexico, D. F.		XEU	1000	100	Vera Cruz, Ver.
	XEH	1132	1000	Monterrey, N. L.		XEV	1000	100	Puebla, Pue.
	XEI	1000	100	Morelia, Mich.		XEW	910	5000	Mexico, D. F.
	XEJ	1000	100	Ciudad, Juarez, Ch.		XEX	1210	500	Mexico, D. F.
	XEK	990	100	Mexico, D. F.		XEY	1000	105	Merida, Yuc.
	XEM	1300	250	Mexico, D. F.		XEZ	780	500	Mexico, D. F.
	XEN	711	1000	Mexico, D. F.		XFC	805	350	Aguascalientes, Agta.
	XEO	940	5000	Mexico, D. F.		HFG	638	3000	Mexico, D. F.
	XEP	1400	200	N. Laredo, Tams.		XFI	818	1000	Mexico, D. F.
	XEQ	750	5000	Ciudad Juarez, Ch.		XFX	860	500	Mexico, D. F.

# STATIONS GROUPED BY FREQUENCIES

FRE-QUENCY	DIAL	POWER	CALL LETTERS	FRE-QUENCY	DIAL	POWER	CALL LETTERS
550 Kilo. 545.1 M.		1000 500	KFYR KOAC WGR WKRC KFUD KSD KFUD	860 Kilo. 346.5 M.		5000 500	WABC WBOQ KMO WHB
560 Kilo. 535.4 M.		1000 500	KLZ KTAB WIBO WNOX WOAM KFDM WFI WLIT WPC	870 Kilo. 344.6 M.		5000	WENR WLS
570 Kilo. 526 M.		1000 750 500 250	WNAX WWNC WEAO KMTR KXA WKBN WMCA WNYC KGKO WMAC WSYR	880 Kilo. 340.7 M.		500 250	KFKA KLX KPOF WCOG WSUI WGBI WQAN
580 Kilo. 516.9 M.		1000 500 250 200	WIBW KSAC WTAG WOBW WSAZ KGF	890 Kilo. 336.9 M.		500 250	KARK KFNF KUSD WGST WILL WJAR WMMN
590 Kilo. 508.2 M.		1000 500	KHO WEEI WQCM WKZO WOW WCAJ	900 Kilo. 333.1 M.		2000 1000 500	WLBL WBEN WJAX KHJ WKY KGBU KSEI
600 Kilo. 499.7 M.		500 250	KFSD WMT WOAN WREC WCAO WICC	920 Kilo. 325.9 M.		1000 500	KOMO KPRC WWJ KFEL KF XF WAAF
610 Kilo. 491.5 M.		1000 500	KFRC WDAF WFAN WIP WJAY	930 Kilo. 322.4 M.		500 250 25	KFWI KGBZ KMA KROW WBRC WDBJ WIBG
620 Kilo. 483.6 M.		50000 1500 1000 500	KZRM WFLA WSUN WTMJ WLBZ KQW KTAR	940 Kilo. 319 M.		1000 750 300	KQIN WDAY WFIW WHA WAAT
630 Kilo. 475.9 M.		500 250	KFRU WGBF WOS WMAL	950 Kilo. 315.6 M.		1000 500	KFWB KQHL KMBC WKAQ WRC
640 Kilo. 468.5 M.		50000 5000 500	KFI WOI WAIU	970 Kilo. 309.1 M.		5000 1500	KJR WCFL
650 Kilo. 461.3 M.		5000 100	WSM KPCB	980 Kilo. 305.9 M.		50000	KDKA
660 Kilo. 454.3 M.		50000 500	WEAF WAAW	990 Kilo. 302.8 M.		25000 1000	WBZ WBZA
670 Kilo. 447.5 M.		5000	WMAQ	1000 Kilo. 299.8 M.		5000 1000 250	WHO WOC WORK KFVD
680 Kilo. 440.9 M.		5000 2500 1000	KPO KFEE WPTF	1010 Kilo. 296.9 M.		1000 500 250	KQW WIS WNAD KGGF WPAP WQAO WHN WRNY
700 Kilo. 428.3 M.		50000	WLW	1020 Kilo. 293.9 M.		10000 250	KFKX KYW WRAX
710 Kilo. 422.3 M.		50000 500	WOR KMPC	1040 Kilo. 288.3 M.		10000 1000	KRLD KTHS WKAR
720 Kilo. 416.4 M.		25000	WGN	1050 Kilo. 285.5 M.		5000	KFBI KNX
740 Kilo. 405.2 M.		50000 1000	WSB KMMJ	1060 Kilo. 282.8 M.		50000 10000 1000 500	WTIC WBAL WJAG KWJJ
750 Kilo. 399.8 M.		10000 2500	WJR KGU	1070 Kilo. 280.3 M.		50000 100 50	WTAM KJBS WOZ WCAZ
760 Kilo. 394.5 M.		30000 1000	WJZ KVI WEW	1080 Kilo. 277.6 M.		50000 5000	WBT WCBD WMBI
770 Kilo. 389.4 M.		25000 5000	WBBM KFAB	1090 Kilo. 275.1 M.		50000	KMOX
780 Kilo. 384.4 M.		500 250	KELW KTM WMC WPOR WTAR WEAN	1100 Kilo. 272.6 M.		5000 250	WLWL WPG KGDM
790 Kilo. 379.5 M.		50000 7500	WGY KGO	1110 Kilo. 270.1 M.		5000 2500	WRVA KSOO
800 Kilo. 374.8 M.		50000 10000	WFAA WBAP	1120 Kilo. 267.7 M.		500 250 100 50	KFSG KMCS KTRH WTAW WHAD WISN WDBO KFIO KRSC
810 Kilo. 370.2 M.		50000 500	WCCO WPCH	1130 Kilo. 265.3 M.		20000 5000 1000	WJJD KSL WOV
820 Kilo. 365.6 M.		10000	WHAS	1140 Kilo. 263.0 M.		5000	KVOO WAPI
830 Kilo. 361.2 M.		12500 5000 1000	KQA WRUF WEEU WHDH	1150 Kilo. 260.7 M.		5000	WHAM
850 Kilo. 352.7 M.		10000	KWKH WWL				

*Log Stations by Frequencies. When You Log One All in That Group Are Logged.*

# STATIONS GROUPED BY FREQUENCIES

FREQUENCY	DIAL	POWER	CALL LETTERS	FREQUENCY	DIAL	POWER	CALL LETTERS
1160 Kilo. 258.5 M.		10000	WOWO WWVA	1320 Kilo. 227.1 M.		1000 500 250 50	WADC KID KGHF WELL WSMB KGMB KTFI
1170 Kilo. 256.3 M.		10000	WCAU	1330 Kilo. 225.4 M.		1000 500 100	KSCJ KGB WCOT WTAQ WDRG WSAI
1180 Kilo. 254.1 M.		10000 5000 1000 500 250	KOB KEK WDGY WINS WGBS WMAZ	1340 Kilo. 223.7 M.		1000 500	KFPY WCOA WSPD
1190 Kilo. 252.0 M.		50000	WOAI	1350 Kilo. 222.1 M.		1000 500 250	KIDO WEHC WAWZ WMBG KWK WBNX WCDA
1200 Kilo. 249.9 M.		100	KBTM KERN KFJB KFWF KGDE KG DY KGEK KGEW KGFJ KGHI KGVO KMLB KVOS KWG WABI WABZ WBBZ WCAT WCAK WCLO WCOD WEPS WFAM WFBE WHBY WIBX WIL WJBC WJBL WJBW WKJC WLAP WLBG WNBO WORC WRBL WWAE WBHS WFBC 10 KGY WHBC WNBW	1380 Kilo. 220.4 M.		1000 500	KGER KFIR WQBC WFBL WCSC WJKS WGES
1210 Kilo. 247.8 M.		100	KDLR KFJI KFOR KFPW KFVS KFXM KGCR KGMP KGNO KMIJ KWEA WALR WBAX WBLB WCB WCOH WCRW WEBQ WEDC WGBB WHBF WHBU WIBU WINR WJBI WJBU WJBY WJW WMBG WMRJ WOMT WPAW WPRO WQDX WRBQ WSBC WSEN WTAK WSIX WSOC 50 KPCC WLCI	1380 Kilo. 217.3 M.		1000 500 200	KWBH KOH WSMK KQV KSO
1220 Kilo. 245.8 M.		1000 500	KTW KWSC WCAE WDAE WREN KFKU WCAD	1390 Kilo. 215.7 M.		1000 500	KLRA KOY KUOA WHK
1230 Kilo. 243.8 M.		1000 500 250	KYA WNAS WFBM WPCSP WSBT KFQD KGGM	1400 Kilo. 214.2 M.		500	KLO WCGU WKBW WLCF KOCW WBAA WBCB WCMA WFOX WLTH
1240 Kilo. 242.7 M.		1000 250	KTAT WACO WXYZ KQCU KLPM	1410 Kilo. 212.6 M.		1000 500 250	KGRS W DAG KFLV WAAB WBCN WHBL WODX WBSA WHIS WRBX
1250 Kilo. 239.9 M.		1000 250	KFMX KFOK WAAM WCAL WDSU W GMS WLB WODA WRHM WGCP	1420 Kilo. 211.1 M.		100	KABC KBPS KCMC KFIZ KFQU KFCD KFXY KGFF KGGC KGIW KGIX KGKX KICK KORE KXL KXYZ WAGM WEDH WEHS WFDW WHDL WHFC WIAS WILM WJBO WJMS WKBJ WLBW WMBC WMBH WPAD WSPA WTBO 60 WOBZ 50 WDEV WIBR
1260 Kilo. 238.0 M.		1000 500	KOIL KRGV KVOA KWVG WLBW WTCO	1430 Kilo. 209.7 M.		1000 500	KECA KGNF WABO WBAK WBRL WCAH WFEA WBC WHP WBNR WOKO
1270 Kilo. 236.1 M.		1000 500 100 50	KOL KVOR WEAI WFBW WJDX WASH WOOD KWLC KQCA	1440 Kilo. 208.2 M.		500 250	KDFN WBIG WHEC WTAD WMBD KLS WCBA WSAW
1280 Kilo. 234.2 M.		1000 500	KFBB WDOB WCAM WCAP WIBA WOAX WRR	1450 Kilo. 206.8 M.		1000 500 250	KTBS WGAR WTFI WBMS WTHOM WSAR WNJ
1290 Kilo. 232.4 M.		1000 500 50	KDYL K TSA WEBC WJAS KFUL KLCN WNBZ	1460 Kilo. 205.4 M.		10000	KSTP WJSV
1300 Kilo. 230.5 M.		1000 500	KFAC KFW WBBR WHAP WIOD WMBF WOO WOTR WEVD WHAZ	1470 Kilo. 204.0 M.		5000	KGA WLAC
1310 Kilo. 228.9 M.		100	KCRJ KFBK KFGO KFJY KFPL KFYD KFJX KFJR KFYO KGBX KGCX KQEZ KGFV KIT KMED KTLK K TSL K TSM KWCR KXRO WBEO WBCW WBRE WCLS WDAH WEBR WEXL WFBG WFDW WFDV WGAL WGH WHAT WJAC WKAV WKBB WKBC WKBS WMBL WMBO WNBH WCL WRAW WRDL WSAJ WSJS WTEL WTJS W TSL 50 KRMD WJAK WLBC 15 KPFP	1480 Kilo. 202.6 M.		5000	KFJF WKBW
				1490 Kilo. 201.2 M.		5000	WCHI WCKY
				1500 Kilo. 199.9 M.		100	KDB KGDR KGF I KGIZ KGB KGY KPJM KREQ KUT KXO WCLB WDX WHEF WKBV WLBX WLOE WMBA WMBQ WMIL WMPC WNBW WOPI WPNL WRDW WSYB WWRL WWSW 50 KGFK KPO WKBZ

*Log Stations by Frequencies. When You Log One All in That Group are Logged.*





# POWERFUL WORLD STATIONS

D	Location	Frequency	Power	Dial	Location	Frequency	Power
	Adelaide, Australia,	750	10000		London, England	1148	67000
	Algiers	825	16000		Madrid, Spain	707	3000
	Barcelona, Spain	860	7500		Melbourne, Australia	620	5000
	Bergen, Norway	824	1000		Midland, England	626	38000
	Berne, Switzerland	743	1500		Midland North, England	842	45000
	Belgrade, Jugo-Slavia	697	3000		Milan, Italy	599	8500
	Bogota, Colombia,	1000	1000		Montevideo, Uruguay	790	1500
	Bolzano, Italy	662	500		North England	797	2000
	Bordeaux, France	986	25000		Osaka, Japan	750	10000
	Brunn, Czecho Slovakia	878	36000		Ostrau, Czecho Slovakia	1139	11000
	Brussels, Belgium	887	15000		Paris, France	671	1000
	Brussels, Belgium	590	20000		Peking, China	935	1000
	Bucharest, Rumania	761	16000		Pressburg, Czecho Slovakia	1076	14000
	Budapest, Hungary	545	23000		Rio De Janiero, Brazil	750	1000
	Buenos Aires, Argentina	870	10000		Santiago, Chile	625	1000
	Calcutta, India	810	3500		Seville, Spain	815	2000
	Canton, China	690	2000		Stockholm, Sweden	689	75000
	Cape Town, So. Africa	800	1500		Strassburg, Alsace Lorraine	869	17000
	Copenhagen, Denmark	1067	1000		Sydney, Australia	680	5000
	Dublin, Ireland	725	1500		Tokio, Japan	870	10000
	Harbin, China	675	1500		Turin, Italy	1013	8500
	Hilversum, Holland	1004	6500		Vienna, Austria	580	10000
	Hong Kong, China	885	5000		Wellington, N. Z.	720	10000
	Kattowitz, Poland	734	35000		Wien, Poland	581	20000
	Lemberg, Poland	788	21000		Wilna, Poland	815	15000

FOOT NOTE: The power of Stations in Europe, Asia and Australia is computed differently than in United States. Stations in these countries, although rated in the same figures, actually are only about one third the strength of U. S. Stations of the same power, because of a different standard used in measuring rated power.

## CUBAN STATIONS

Dial	Call	Kilo	Power	City	Dial	Call	Kilo	Power	City
	CMAC	1375	30	Pinar del Rio		CMCN	1225	250	Marianao
	CMBA	1345	50	Havana		CMCO	660	225	Marianao
	CMBC	965	150	Havana		CMCQ	1150	600	Havana
	CMBD	965	150	Havana		CMCU	1345	50	Havana
	CMBG	1070	150	Havana		CMGA	834	100	Colon
	€MBI	1405	30	Havana		CMGE	2375	30	Cardenas
	CMBN	1405	30	Havana		CMGF	977	50	Matanzas
	CMBQ	1405	50	Marianao		CMGH	780	60	Matanzas
	CMBS	750	150	Havana		CMHA	1154	200	Cienfuegos
	CMBT	1070	150	Havana		CMHC	790	500	Tuinucu
	CMBW	1010	150	Marianao		CMHJ	645	40	Cienfuegos
	CMBX	1405	30	Havana		CMK	730	3150	Havana
	CMBY	1405	100	Havana		CMKC	1034	150	S. deCuba
	CMBZ	1010	150	Havana		CMKE	1249	250	S. deCuba
	CMC	840	500	Havana		CMKF	1363	30	Holguia
	CMCA	1225	150	Havana		CMKG	1176	30	S. deCuba
	CMCB	1070	150	Havana		CMKH	1327	250	S. deCuba
	CMCD	1225	250	Havana		CMQ	1150	250	Havana
	CMCF	890	250	Havana		CMW	588	1400	Havana
	CMCG	1285	30	Guanabacoa		CMX	890	500	Havana





