

50 61

# WORLD RADIO LOG AND MAP

A hand in a dark sleeve holds a pen, poised to write on a grid. The background features a stylized globe with red and black sections. In the upper left, a circular dial shows the numbers 50 and 61. The overall aesthetic is mid-20th-century graphic design.

**UNG-SOL RADIO TUBES INC. NEWARK, N. J.**

COMPLIMENTS OF

**DEAN SUBURBAN RADIO SERVICE**  
19 Winthrop St. Taunton, Mass.  
Tel. 2046 Taunton



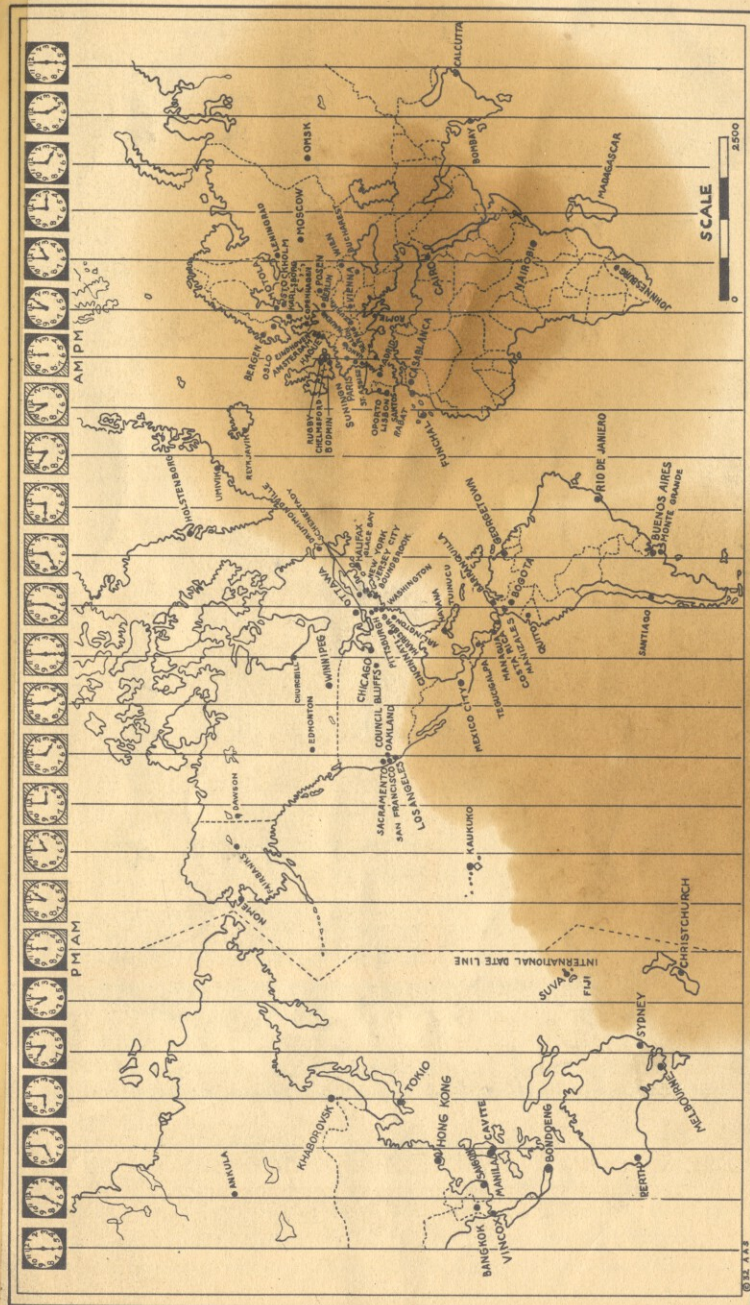
**AS FINE  
AS SKILLED  
CRAFTSMEN  
CAN MAKE  
THEM**

**THAT ACCOUNTS  
FOR THEIR FINE  
PERFORMANCE**

TUNG-SOL RADIO TUBES, INC.  
NEWARK, N. J.

**TUNG-SOL**  
RADIO TUBES

LICENSED UNDER PATS. OF R. C. A.



Short Wave Reference Map of the World



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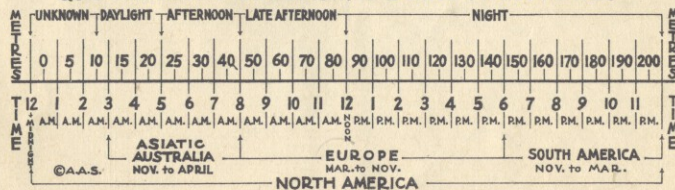
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## HOURS AND DAYS OF WEEK IN U. S. TIME THAT WORLD SHORT-WAVE STATIONS ARE ACTUALLY SCHEDULED TO BROADCAST

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. W8XX 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
Tegucigalpa, Honduras	5-6 P.M., 9-12 P.M., Mon., Wed., Fri.	HRB	48.6
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

## QUICK REFERENCE WAVE LENGTH-TIME CHART-5 to 200 METRES



# 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	50 20
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	VQZLO	6000	50 0
Cairo, Egypt	SUS	9110	32 8	Nairobi, Kenya	VQZLO	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	Tannanarive, Mad.	.....	5550	54 0
Johannesburg, S. A.	ZTJ	6095	49 2	Tenerife, 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	V83AB	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.	PKF	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	XCETE	5000	60 0
Chi Hoa, China	F3ICD	6120	49 1	Singapore, Malaya	WS1AB	7260	41 3
Djakjakarta, E. I.	PK2AF	5996	50 0	Surabaya, E. I.	PK3AN	6040	49 7
Haiphong, 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	I1AX	6665	45 0
Kharbarovsk, U.S.S.R.	RW54	4275	70 2	Rome, Italy	I2RO	3750	80 0
Lisbon, Port.	CT1AA	6995	42 9	Rome, Italy	I2RO	11810	25 4
Lisbon, Port.	CT1BO	10710	28 0	Sonning, Eng.	G2NM	14320	20 9
Lyon, France	.....	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	Tequigalpa, Hon.	HRB	6005	50 0
Havana, Cuba	CM2LA	10013	30 0	Tequigalpa, 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.	V08Z	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	VK3UZ	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.	HKG	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	HC1B	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	59664	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	20400	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	TIRC	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	VQ7LO	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	Sz'vegervar, 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	CM5RY	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	EAR58	Tenerife, 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	VO8Z	St. Johns, N. F. D.
29.9	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	RW62	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 Hoa, 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	.....	Tanarive, 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	F8GC	Paris, France
49.3	6080	W6XAL	Westminster, Cal.	62.8	4775	ZL2XX	Wellington, N. Z.
49.4	6070	OOR2	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	6060	YV2BC	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	Morocco	RAA-RQZ	Union of Soviet Socialist Republics (U. S. S. R.)
CPA-CPZ	Bolivia.		
COA-COZ	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-EIZ	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.
		UHA-UHZ	Hedjaz.
G	Great Britain.	UIA-UKZ	Dutch East Indies.
HAA-HAZ	Hungary.	ULA-ULZ	Luxemburg.
HBA-HBZ	Switzerland.	UNA-UNZ	Kingdom of Serbs, Croats and Slovenes (Yugoslavia).
HCA-HCZ	Ecuador.		
HHA-HHZ	Haiti.	UOA-UOZ	Austria.
HIA-HIZ	Dominican Republic.	UWA-UWZ	
HJA-HJZ	Colombia.	VAA-VGZ	Canada
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	VRT-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		YMA-YMZ	Free City of Danzig.
OCA-OCZ	Peru.	YNA-YNZ	Nicaragua.
OFA-OFZ		YSA-YSZ	Republic of El Salvador.
OHA-OHZ	Finland.	YVA-YVZ	Venezuela.
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-PJZ	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	Kauhuku, Hawaii
CGA	18170	Drummondville, Ont.	KOJ	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	12295	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	12290	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.	12290	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	Kauhuku, Hawaii
19220	WNC	Deal, N. J.	11530	CGA	Drummondville, Ont.
18860	PLE	Bandoeng, Java	11435	DHC	Nauen, Germany
18620	GBJ	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	KOJ	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	Okl. 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.	WPDN	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.	
	KGPR	2452	122.35	Honolulu, T. H.	WPDR	1712	175.23	Rochester, N. Y.	
	KGQR	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.	
	KGZ	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			Amateur Telephone Bands		
K.C. From	K.C. To		K.C. From	K.C. To	
1750	2000	Night 160 meters	1875	2000	Night 160 meters
3500	4000	Night 80 meters	3900	4000	Special Night 80 meters
7000	7300	Day or Night 40 meters	14150	14250	Special Day 20 meters
14000	14400	Day 20 meters	56000	60000	Experimental 5 meters
28000	30000	Experimental 10 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 •••••••••

Fig. 1.

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

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.





*have*

## **YOUR RADIO TUBES AND RADIO SET CHECKED**

*periodically*

A radio receiver is no better than its weakest tube.

AS THEY ARE USED, RADIO TUBES GRADUALLY DECREASE IN OPERATING EFFICIENCY LIKE THE SPARK PLUGS IN AN AUTOMOBILE

While a tube that does not "light", may definitely be considered an inoperative tube, this does not mean that a tube that does light is still in operating condition. The "light" in a radio tube emanates from its filament, and is an indication that this one element is still in operating condition. However, a radio tube contains many other inter-dependent elements upon which its satisfactory operation is dependent, and it is very often the case that a filament will light, but that some other worn out element will impair the efficiency of the tube, or make it entirely inoperative.

If your radio does not seem to perform "as good as it used to" the probable cause is a weak tube. To accurately determine the exact trouble, however, call in your radio service man. He will gladly test your tubes and completely check your radio set. If it is new tubes you need—replace with Tung-Sols, those long-life, humless, noiseless, quality radio tubes.



## LOG YOUR STATIONS HERE

Dial	Call	Kilo-cycle	Power	City
KABC	1420	100		San Antonio, Tex.
KARK	890	500		Little Rock, Ark.
KBPS	1420	100		Portland, Oregon
KBTM	1200	*100		Paragould, Ark.
KCMC	1420	100		Texarkana, Texas
KCRC	1370	†100		Enid, Okla.
KCRJ	1310	100		Jerome, Ariz.
KDB	1500	100		S. Barbara, Cal.
KDFN	1440	500		Casper, Wyo.
KDKA	980	50000		Pittsburgh, Pa.
KDLR	1210	100		Devils Lake, N.D.
KDYL	1290	1000		Salt Lake City, U.
KECA	1430	1000		Los Angeles, Cal.
KELW	780	500		Burbank, Cal.
KERN	1200	100		Bakersfield, Cal.
KEX	1180	5000		Portland, Oregon
KFAB	770	5000		Lincoln, Nebr.
KFAC	1300	1000		Los Angeles, Calif.
KFBB	1280	†1000		Great Falls, Mont.
KFBI	1050	5000		Milford, Kans.
KFBK	1310	100		Sacramento, Cal.
KFBL	1370	50		Everett, Wash.
KFDM	560	‡500		Beaumont, Texas
KFDY	550	1000		Brookings, S.D.
KFEL	920	500		Denver, Colo.
KFEQ	680	*2500		St. Joseph, Mo.
KFGQ	1310	100		Boone, Iowa
KFH	1300	1000		Wichita, Kan.
KFI	640	50000		Los Angeles, Cal.
KFIO	1120	*100		Spokane, Wash.
KFIZ	1420	100		Fond du Lac, Wis.
KFJB	1200	†100		Marshalltown, Ia.
KFJI	1210	100		Klamath Falls, Ore.
KFJM	1370	100		Grand Forks, N.D.
KFJR	1300	500		Portland, Oregon
KFJZ	1370	100		Fort Worth, Tex.
KFKA	880	‡500		Greeley, Colo.
KFKU	1220	500		Lawrence, Kan.
KFKX	1020	10000		Chicago, Ill.
KFLV	1410	500		Rockford, Ill.
KFLX	1370	100		Galveston, Texas
KFMX	1250	1000		Northfield, Minn.
KFNF	890	‡500		Shenandoah, Ia.
KFOR	1210	†100		Lincoln, Nebr.
KFOX	1250	1000		Long Beach, Cal.
KFPL	1310	100		Dublin, Texas
KFPM	1310	15		Greenville, Texas
KFPW	1210	100		Ft. Smith, Ark.
KFPY	1340	1000		Spokane, Wash.
KFQD	1230	250		Anchorage, Alaska
KFRC	610	1000		San Francisco, Cal.
KFRU	630	500		Columbia, Mo.
KFSD	600	‡500		San Diego, Cal.
KFSG	1120	500		Los Angeles, Cal.
KFUL	1290	500		Galveston, Texas
KFUO	550	‡500		St. Louis, Mo.
KFVD	1000	250		Culver City, Cal.
KFVS	1210	100		C. Girardeau, Mo.
KFWB	950	1000		Hollywood, Cal.
KFWF	1200	100		St. Louis, Mo.
KFWI	930	500		San Francisco, Cal.
KFXD	1420	100		Nampa, Idaho
KFXF	920	500		Denver, Colo.

\* Daytime only \* Sunday only  
† Higher power daytime

## LOG YOUR STATIONS HERE

Dial	Call	Kilo-cycle	Power	City
KIDO	1350	1000		Boise, Idaho
KIT	1310	100		Yakima, Wash.
KJBS	1070	100		San Francisco, Cal.
KJR	970	5000		Seattle, Wash.
KLCN	1290	*50		Blytheville, Ark.
KLO	1400	500		Ogden, Utah
KLPM	1240	250		Minot, N.D.
KLRA	1390	1000		Little Rock, Ark.
KLS	1440	*250		Oakland, Cal.
KLX	850	500		Oakland, Cal.
KLZ	560	1000		Denver, Colo.
KMA	930	‡500		Shenandoah, Ia.
KMAC	1370	100		San Antonio, Tex.
KMBC	950	1000		Kansas City, Mo.
KMED	1310	100		Medford, Oregon
KMJ	1210	100		Fresno, Cal.
KMLB	1200	*100		Monroe, La.
KMMJ	740	*1000		Clay Center, Nebr.
KMO	1330	250		Tacoma, Wash.
KMOX	1090	50000		St. Louis, Mo.
KMPC	710	500		Beverly Hills, Cal.
KMTR	570	500		Hollywood, Cal.
KNOW	1500	100		Austin, Texas
KNX	1050	25000		Hollywood, Cal.
KOA	830	12500		Denver, Colo.
KOAC	550	1000		Corvallis, Oregon
KOB	1180	10000		Albuquerque, N.M.
KOCW	1400	‡250		Chickasha, Okla.
KOH	1380	500		Reno, Nev.
KOIL	1260	1000		Council Bluffs, Ia.
KOIN	940	1000		Portland, Oregon
KOL	1270	1000		Seattle, Wash.
KOMA	1480	5000		Okla. City, Okla.
KOMO	920	1000		Seattle, Wash.
KONO	1370	100		San Antonio, Tex.
KOOS	1370	100		Marshfield, Ore.
KORE	1420	100		Eugene, Oregon
KOY	1390	500		Phoenix, Ariz.
KPCB	650	100		Seattle, Wash.
KPJM	1500	100		Prescott, Ariz.
KPO	680	5000		San Francisco, Cal.
KPOF	880	500		Denver, Colo.
KPPC	1210	50		Pasadena, Calif.
KPQ	1500	50		Wenatchee, Wash.
KPRC	920	†1000		Houston, Texas
KQV	1380	500		Pittsburgh, Pa.
KQW	1010	500		San Jose, Calif.
KRE	1370	100		Berkeley, Calif.
KREG	1500	100		Santa Ana, Calif.
KRGV	1260	500		Harlingen, Texas
KRKD	1120	500		Los Angeles, Cal.
KRLD	1040	10000		Dallas, Texas
KRMD	1310	50		Shreveport, La.
KROW	930	‡500		Oakland, Calif.
KRSC	1120	100		Seattle, Wash.
KSAC	580	‡500		Manhattan, Kans.
KSCJ	1330	†1000		Sioux City, Iowa
KSD	550	500		St. Louis, Mo.
KSEI	900	500		Pocatello, Idaho
KSL	1130	50000		Salt Lake C., Utah
KSO	1380	500		Clarinda, Iowa
KSOO	1110	2500		Sioux Falls, S.D.
KSTP	1460	10000		St. Paul-Minneapolis

\* Daytime only \* Sunday only  
† Higher power daytime.

## LOG YOUR STATIONS HERE

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

\* Daytime only. † Sunday only.  
† Higher power daytime

## LOG YOUR STATIONS HERE

Dial	Call	Kilo-cycle	Power	City
WGMS	1250	1000	Minneapolis, Minn.	
WGN	720	25000	Chicago, Ill.	
WGR	550	1000	Buffalo, N.Y.	
WGT	890	†250	Atlanta, Ga.	
WGY	790	50000	Schenectady, N.Y.	
WHA	940	*750	Madison, Wis.	
WHAD	1120	250	Milwaukee, Wis.	
WHAM	1150	5000	Rochester, N.Y.	
WHAS	820	25000	Louisville, Ky.	
WHAT	1310	100	Philadelphia, Pa.	
WHAZ	1300	*500	Troy, N.Y.	
WHB	860	*500	Kansas City, Mo.	
WHBC	1200	†100	Canton, Ohio	
WHBD	1370	100	Mt. Orab, Ohio	
WHBF	1210	100	Rock Island, Ill.	
WHBL	1410	500	Sheboygan, Wis.	
WHBQ	1370	100	Memphis, Tenn.	
WHBU	1210	100	Anderson, Ind.	
WHBY	1200	100	Green Bay, Wis.	
WHDF	1370	†100	Calumet, Mich.	
WHDH	830	1000	Boston, Mass.	
WHDL	1420	*100	Tupper Lake, N.Y.	
WHEB	740	250	Portsmouth, N. H.	
WHEC	1440	500	Rochester, N.Y.	
WHEF	1500	100	Kosciusko, Miss.	
WHFC	1420	100	Cicero, Ill.	
WHIS	1410	250	Bluefield, W. Va.	
WHK	1390	1000	Cleveland, Ohio	
WHN	1010	250	New York, N.Y.	
WHO	1000	5000	Des Moines, Iowa	
WHOM	1450	250	Jersey City, N. J.	
WHP	1430	†500	Harrisburg, Pa.	
WIAS	1310	100	Ottumwa, Iowa	
WIBA	1280	†500	Madison, Wis.	
WIBG	930	*25	Elkins Park, Pa.	
WIBM	1370	100	Jackson, Mich.	
WIBO	560	†1000	Chicago, Ill.	
WIBR	1420	50	Steubenville, Ohio	
WIBU	1210	100	Poynette, Wis.	
WIBW	580	1000	Topeka, Kansas	
WIBX	1200	†100	Utica, N.Y.	
WICC	600	†250	Bridgeport, Conn.	
WIL	1200	†100	St. Louis, Mo.	
WILL	890	†250	Urbana, Ill.	
WILM	1420	100	Wilmington, Del.	
WINR	1210	100	Bayshore, N.Y.	
WINS	1180	500	New York, N. Y.	
WIOD	1300	1000	Miami, Fla.	
WIP	610	500	Philadelphia, Pa.	
WIS	1010	†500	Columbia, S.C.	
WISN	1120	250	Milwaukee, Wis.	
WJAC	1310	100	Johnstown, Pa.	
WJAG	1060	*1000	Norfolk, Nebr.	
WJAK	1310	50	Elkhart, Ind.	
WJAR	890	†250	Providence, R.I.	
WJAS	1290	†1000	Pittsburgh, Pa.	
WJAX	900	1000	Jacksonville, Fla.	
WJAY	610	*500	Cleveland, Ohio	
WJBC	1200	100	LaSalle, Ill.	
WJBI	1210	100	Red Bank, N.J.	
WJBK	1370	50	Detroit, Mich.	
WJBL	1200	100	Decatur, Ill.	
WJBO	1420	100	New Orleans, La.	
WJBU	1210	100	Lewisburg, Pa.	
WJBY	1200	100	New Orleans, La.	
WJBY	1210	100	Gadsden, Ala.	
WJDX	1270	1000	Jackson, Miss.	
WJDD	1130	20000	Chicago, Ill.	
WJKS	1360	†1000	Gary, Ind.	
WJMS	1420	*100	Ironwood, Mich.	
WJR	750	10000	Detroit, Mich.	
WJSV	1460	10000	Mt. Vernon H's, Va.	
WJTL	1370	100	Oglethorpe U., Ga.	
WJW	1210	100	Mansfield, Ohio	
WJZ	760	30000	New York, N.Y.	
WKAQ	950	1000	San Juan, P. R.	
WKAR	1040	*1000	E. Lansing, Mich.	
WKAV	1310	100	Laconia, N.H.	
WKBB	1310	100	Joliet, Ill.	
WKBC	1310	100	Birmingham, Ala.	
WKBF	1400	500	Indianapolis, Ind.	
WKBH	1380	1000	LaCrosse, Wis.	
WKBI	1420	100	Cicero, Ill.	
WKBN	570	500	Youngstown, Ohio	
WKBS	1310	100	Galesburg, Ill.	
WKBV	1500	100	Connersville, Ind.	
WKBW	1480	5000	Buffalo, N.Y.	
WKBZ	1500	50	Ludington, Mich.	
WKJC	1200	100	Lancaster, Pa.	
WKRC	550	1000	Cincinnati, Ohio	
WKY	900	1000	Oklahoma City, Okla.	
WKZO	590	1000	Kalamazoo, Mich.	
WLAC	1470	5000	Nashville, Tenn.	
WLAP	1200	†100	Louisville, Ky.	
WLB	1250	1000	Minneapolis, Minn.	
WLBC	1310	50	Muncie, Ind.	
WLBF	1420	100	Kansas City, Kans.	
WLBG	1200	†100	Petersburg, Va.	
WLBL	900	*2000	Stevens Point, Wis.	
WLBW	1260	†500	Erie, Pa.	
WLBX	1500	100	Long I. City, N.Y.	
WLBZ	620	500	Bangor, Me.	
WL CI	1210	s50	Ithaca, N.Y.	
WLEY	1370	†100	Lexington, Mass.	
WLIT	560	500	Philadelphia, Pa.	
WLOE	1500	†100	Boston, Mass.	
WLS	870	50000	Chicago, Ill.	
WLTH	1400	500	Brooklyn, N.Y.	
WLVA	1370	100	Lynchburg, Va.	
WLW	700	50000	Cincinnati, Ohio	
WLWL	1100	5000	New York, N.Y.	
WMA	570	250	Syracuse, N.Y.	
WMAL	630	†250	Washington, D.C.	
WMAQ	670	5000	Chicago, Ill.	
WMAZ	1180	500	Macon, Ga.	
WMBA	1500	100	Newport, R.I.	
WMBC	1420	†100	Detroit, Mich.	
WMBD	1440	†500	Pearia, Ill.	
WMBF	1300	1000	Miami, Fla.	
WMBG	1210	100	Richmond, Va.	
WMBH	1420	†100	Joplin, Mo.	
WMBI	1080	5000	Chicago, Ill.	
WMBL	1310	100	Lakeland, Fla.	
WMBQ	1310	100	Auburn, N.Y.	
WMBQ	1500	100	Brooklyn, N.Y.	

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† Higher power daytime.

## LOG YOUR STATIONS HERE

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

## CANADIAN BROADCASTING STATIONS

Dial	Call	Kilo Power	City	Dial	Call	Kilo Power	City	
	CFAC	690	500	Calgary, Alta.	CKCK	960	500	Regina, Sask.
	CFBO	890	500	St. John, N.B.	CKCL	580	500	Toronto, Ont.
	CFCA	1120	500	Toronto, Ont.	CKCO	890	100	Ottawa, Ont.
	CFCF	1030	500	Montreal, Que.	CKCR	645	100	Waterloo, Ont.
	CFCH	930	100	North Bay, Ont.	CKCV	880	50	Quebec, Que.
	CFCN	985	10000	Calgary, Alta.	CKFW	730	50	Vancouver, B.C.
	CFCO	1210	250	Chatham, Ont.	CKGW	840	5000	Toronto, Ont.
	CFCT	630	50	Victoria, B.C.	CKLK	840	100	Red Deer, Alta.
	CFCY	580	500	Charlottet'n, P.E.I.	CKMC	1210	100	Cobalt, Ont.
	CFJC	1120	100	Kamloops, B.C.	CKMO	730	100	Vancouver, B.C.
	CFLC	915	100	Prescott, Ont.	CKNC	960	500	Toronto, Ont.
	CFNB	1210	50	Fredericton, N.B.	CKOC	1010	1000	Hamilton, Ont.
	CFQC	910	500	Saskatoon, Sask.	CKOK	540	5000	Windsor, Ontario
	CFRB	690	4000	Toronto, Ont.	CKOV	1200	100	Kelowna, B. C.
	CFRC	930	†50	Dillington, Ont.	CKPC	880	100	Preston, Ont.
	CHCK	960	100	Charlottet'n, P.E.I.	CKPR	890	50	Fort William, Ont.
	CHCS	1010	500	Hamilton, Ont.	CKTB	1010	†500	St. Catherine's, 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.
	CJCY	690	500	Calgary, Alta.	CNRK	960	500	Regina, Sask.
	CJCG	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.
	CKCI	645	100	Quebec, Que.				

## 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	Torreón, 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	Torreón, 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	Agascalientes, Agts.
	XEO	940	5000	Mexico, D. F.	XFG	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.

\* Daytime only. † Sunday only.  
† Higher power daytime.

## POWERFUL WORLD STATIONS

Dial	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
	CMBI	1405	30	Havana		CMGE	2375	30	Cardenas
	CMBN	1405	30	Havana		CMGF	977	50	Matanzas
	CMBQ	1405	50	Marianao		CMGH	780	60	Matanzas
	CMBS	730	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

## STATIONS GROUPED BY FREQUENCIES

FRE-QUENCY	DIAL	POWER	CALL LETTERS	FRE-QUENCY	DIAL	POWER	CALL LETTERS
550 Kilo.	545.1 M.	1000	KFYR WKRC KFDY KOAC KFJO KSD WGR	860 Kilo.	346.5 M.	5000	WABC WBOQ WHB
560 Kilo.	535.4 M.	1000	KLZ WNOX KFDIM WPCO KTAB WOAM WFI WLIT WIBO	870 Kilo.	344.6 M.	50000	WENR WLS
570 Kilo.	526 M.	1000	WNAX WEO WKMTR WMCA KGKO WMAC WWNC KXA WYNY WWSYR WKBN	880 Kilo.	340.7 M.	500	KFKA WCOB WGBI KLX WSUI WQAN
580 Kilo.	516.9 M.	1000	WIBW KSAC WOBW KGFY WTAG WSAZ WSCG WCAJ WOV	890 Kilo.	336.9 M.	500	KARK WGST WMLN KFNF WILL WJAR
590 Kilo.	508.2 M.	1000	KHO WKZO WCAJ WEEI WOV WCGM	900 Kilo.	333.1 M.	2000	WLBL KHJ WKY KGBU WBEN WJAX
600 Kilo.	499.7 M.	500	KFSD WREC WCAJ WICC	920 Kilo.	325.9 M.	1000	KOMO KFEL WBSO KPRC KFXX WWJ WAAF
610 Kilo.	491.5 M.	1000	KFRC WFAW WIP WJAY	930 Kilo.	322.4 M.	500	KFWI KROW WDBJ WBG KGBZ KMA
620 Kilo.	483.6 M.	50000	KZRM WTTM KGW WFLA WLBZ WSUN	940 Kilo.	319 M.	1000	KOIN WFIW WHA WAAT WWSH WDAY
630 Kilo.	475.9 M.	500	KFRU WMAJ WGBF WOS	950 Kilo.	315.6 M.	1000	KFWB WKAQ WRC KGHJ KMBC
640 Kilo.	468.5 M.	50000	KFI WOI WAIU	970 Kilo.	309.1 M.	5000	KJR WCFL
650 Kilo.	461.3 M.	50000	WSM KPCB	980 Kilo.	305.9 M.	50000	KDKA
660 Kilo.	454.3 M.	50000	WEAF WAAW	990 Kilo.	302.8 M.	25000	WBZ WBZA
670 Kilo.	447.5 M.	5000	WMAQ	1000 Kilo.	299.8 M.	5000	WHO WOPK KFVD WOC
680 Kilo.	440.9 M.	5000	KPO KFEQ WPTF	1010 Kilo.	296.9 M.	1000	KQW KGGF WHN WRNY WIS WPAP WNAJ WQAO
700 Kilo.	428.3 M.	50000	WLW	1020 Kilo.	293.9 M.	10000	KFKX WRAX KYW
710 Kilo.	422.3 M.	50000	WOR KMPC	1040 Kilo.	288.3 M.	10000	KRLD KTHS WKAR
720 Kilo.	416.4 M.	25000	WGN	1050 Kilo.	285.5 M.	5000	KFBI KNX
740 Kilo.	408.2 M.	50000	WSB KMMJ	1060 Kilo.	282.8 M.	50000	WTIC WBAL WJAG KWJJ
750 Kilo.	399.8 M.	10000	WJR KGU	1070 Kilo.	280.3 M.	50000	WTAM KJBS WGAZ WDJ
760 Kilo.	394.5 M.	30000	WJZ KVI WEW	1080 Kilo.	277.6 M.	50000	WBT WBDW WMBI
770 Kilo.	389.4 M.	25000	WBBM KFAB	1090 Kilo.	275.1 M.	50000	KMOX
780 Kilo.	384.4 M.	500	KELW WPOP WEAN KTM WTAR WMC	1100 Kilo.	272.6 M.	500	WLWL WPG KGDW
790 Kilo.	379.5 M.	50000	WGY KGO	1110 Kilo.	270.1 M.	5000	WRVA KSOO
800 Kilo.	374.8 M.	50000	WFAA WBP	1120 Kilo.	267.7 M.	500	KFSG WTAW WDEL WDBO KFIO KRSC
810 Kilo.	370.2 M.	50000	WCCO WPCB	1130 Kilo.	265.3 M.	50000	KSL WJJD WOV
820 Kilo.	365.6 M.	25000	WHAS	1140 Kilo.	263.0 M.	5000	KVOO WAPI
830 Kilo.	361.2 M.	12500	KOA 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.



