



# OFFICIAL SHORT WAVE LOG AND CALL MAGAZINE

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This completely revised and enlarged 1934 edition contains 108 solid pages of useful radio information, diagrams, illustrations, radio kinks and real live radio merchandise. It contains more valuable radio information—more real live “meat”—than many textbooks on the subject. As usual considerable space has been devoted to the beginner in radio. Chapter Two of the series of articles titled “Fundamental Principles of Radio for the Beginner,” aside from being a fine grounding in the theory of radio for new fans, offers an excellent review to old timers.

If you have received copies of our previous editions, you are familiar with the type of book we publish—but this new edition **WHAT A BOOK!**

**PARTIAL LIST OF CONTENTS**

Chapter Two of “Fundamental Principles of Radio for the Beginner”—The New Tubes, Their Uses, and Their Fundamental Circuits—How to Make Money with Public Address Systems, How to Install and Maintain Them—How to Revamp Six-Volt Battery Sets to Use Two-Volt Tubes—Prize Winning Kinks and Short Cuts in Radio—How to Build the “R T” Beginner’s Transmitter—How to Build the Famous Twinplex Short Wave Receiver—How to Construct an Amateur Radio Transmitter—A Most Modern and Complete Tube Chart Including Socket Connections for all Tubes—Numerous Free Offers, etc., etc.

**RADIO TRADING COMPANY, 100D Park Place, New York City**

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# Improving Your Short Wave Reception

By **CLIFFORD E. DENTON**

**S**O many radio fans have become discouraged with short wave reception that for a time it looked as though interest in short waves would wane. However, with the improvement in the transmitters and the rapid advance in short wave receiver design this lagging interest has been revived to a tremendous degree. Another reason for this increased interest is the improved tuning ability of the short wave listener-in. In looking back at the early days of DX (long distance) on the American Broadcast Band one notes that real distance was received by many and checking up on these experimenters it was found that they are the ones who are getting the best results today on the short waves. This indicates that there must be something in the personal element that makes for a real DX'R.

In talking with fellows whose records for DX reception place them near the top several facts stand out and they are so simple that every short wave fan can use them to real advantage.

## Ten Rules for the Short Wave Listener:

**ONE**—Use directional antennas. If possible have as many as four antennas placed for reception from different directions. You will be surprised at the improvement.

**TWO**—Have patience. Tune slowly—exceedingly slow—and go over each band several times. The person who tunes quickly never gets the hard catches.

**THREE**—Tune at the right time. Do not try to hear stations that are not on the air and then blame the receiver if you do not get them. Check up and find out if the station that you want to hear is broadcasting at that particular time.

**FOUR**—Make a frequency vs. time schedule. Although short-wave reception is notorious for its irregularity and seeming inconsistency (wherein lies its greatest appeal to the sporting listener), it is a good idea to follow a general schedule as far as wavelength in relation to the time of the day is concerned. The observance of a few simple rules will save the short-wave fan a lot of otherwise wasted time.

From daybreak to mid-afternoon, and particularly during bright daylight, listen between 13 and 22 meters (21540 to 13000 kc.).

To the east of the listener, from about noon to 10:00 p. m., the 20-35 meter will be found very productive. To the west of the listener this same band is best from about midnight until shortly after daybreak. After dark, results above 35 meters are usually much better than during daylight. These general rules hold good whether you live in the United States or in China.

**FIVE**—Make a complete tuning log of your receiver. One of the greatest aids to DX tuning is a log of stations received. Whenever you hear a new station enter the call letters and the wavelength or frequency with the tuning dial settings and the *time of the day*. This will help trace the tuning positions of other weaker stations that are hard to tune.

**SIX**—Do not depend entirely on printed schedules. The list of star short-wave broadcasting and telephone stations printed in this book is compiled from many sources, which are not always in agreement. In fact, conflicting data are sometimes received from the stations themselves. The majority of short wave stations using voice transmission are experimental in nature, and are likely to change their operating schedules without notice even after issuing printed programs. For instance, the officials of the great National Broadcasting Company refuse to commit themselves to any definite schedules for some of their best and most widely heard stations. "When you hear them, they're on the air; if you don't hear them, they're not on the air" is the actual comment made by a high N. B. C. official.

Frequencies (wavelengths) are also subject to considerable change. The fact that a station is listed for one frequency does not mean that it does not use others. Many stations are licensed to use as many as a dozen different waves, and are likely to pick any one of them for experimental transmissions.

In writing to foreign stations for verifications, do not fail to enclose an international reply coupon, obtainable at most post offices. If your local office doesn't carry these coupons, ask the postmaster to get some. They cost nine cents each and will invariably elicit some sort of a reply. Write your name and address clearly.

**SEVEN**—Budget your listening time. Try and organize your listening time in such a manner that you will have an equal chance and sufficient tuning time for the various tuning bands and best tuning times for those bands.

**EIGHT**—Convenient tuning. Place your short wave receiver on a table or if it is in a console fix your room arrangement in such a way that you can tune your receiver for a long period of time without undue strain. If tuning tires you quickly look around and make yourself comfortable.

**NINE**—Have a smooth regeneration control. The first law of regenerative receivers surely states that the method of regeneration control must work smoothly. It seems that most short wave receivers are of the regenerative type and if the detector oscillates too quickly and not smoothly a real loss of distance will be the result. This loss of distant reception will be due to the lack of control over the regenerative action when tuning for weak signals.

**TEN**—Keep the receiver in A1 condition. For real results a radio receiver must be overhauled every so often. Test the tubes and batteries (if any) every few months. Keep all wiping contacts clean and bright. Look out for corrosion of the antenna wires and lead-ins. Use good material in the construction and additional equipment used with the receiver. The best is cheapest in the end.

## PREFIXES—BY COUNTRIES

Abyssinia ..... ET	France ..... F3, F8	Northern Rhodesia ..... VQ2
Afghanistan ..... YA	French Indo-China ..... FI	Norway ..... LA
Alaska ..... K7	Germany ..... D	Palestine ..... ZC6
Albania ..... ZA	Great Britain ..... G	Panama ..... HP
Algeria ..... F8	Greece ..... SV	Paraguay ..... ZP
Angola ..... CR6	Greenland ..... NX	Persia ..... EP, EQ
Argentina ..... LU	Guam ..... OM	Peru ..... OA
Australia ..... VK	Guatemala ..... TG	Philippines ..... KA
Austria ..... OE	Hawaii ..... K6	Poland ..... SP
Azores ..... CT2	Hayti ..... HH	Porto Rico ..... K4
Barbados ..... VP6	Hedjaz ..... HZ	Portugal ..... CT1
Bahamas ..... VP7	Hong Kong ..... VS6	Roumania ..... YO-YR
Belgian Congo ..... ON	Honduras ..... HR	Saar ..... TS
Belgium ..... ON	Hungary ..... HA	Salvador ..... YS
Bermuda ..... VP9	Iceland ..... TF	Samoa (British) ..... ZM
Bolivia ..... CP	India ..... VU	Samoa (U. S.) ..... K6
Brazil ..... PY	Iraq ..... YI	Sarawak ..... HS
British Guiana ..... VR	Irish Free State ..... EI	Siam ..... HS
British Honduras ..... VP4	Italy ..... I	Siberia (See U. S. S. R.) ..... ZS, ZT, ZU
Bulgaria ..... LZ	Jamaica ..... VP5	South Africa ..... ZS, ZT, ZU
CAMEROONS ..... VE	Japan ..... J	Southern Rhodesia ..... ZE1
Canada ..... VE	Java ..... PK	Spain ..... EA
Canal Zone ..... K5, NY	Jugoslavia ..... YT, YU	Sudan ..... ST
Cape Verde ..... CR4	Kenya ..... VQ4	Sumatra ..... PK
Ceylon ..... VS7	Latvia ..... YL	Surinam ..... PZ
Chile ..... CE	Liberia ..... EL	Straits Sts. ..... VS1
China ..... AC, XT, XU	Lithuania ..... LY	Sweden ..... SM
Colombian Rep. .... HJ, HK	Luxembourg ..... LX	Switzerland ..... HB
Cook Islands ..... ZK	Macao ..... CR9	Syria ..... AR
Costa Rica ..... TI	Madagascar ..... CT3	Tahiti ..... F3
Cuba ..... CM	Madeira ..... VS2, VS3	Tanganyika ..... VQ3
Curacao ..... PJ	Malay States ..... F3	Tibet ..... AC4
Czechoslovakia ..... OK	Martinique ..... V8	Transjordania ..... ZC1
Danzig ..... YM	Mauritius ..... X	Trinidad ..... VP4
Denmark ..... OZ	Mexico ..... F8M	Tunis ..... F4
Dominican Rep. .... HI	Morocco ..... CR7	Turkey ..... TA
Dutch E. Indies ..... PK	Mozambique ..... PA	Uganda ..... VQ5
Ecuador ..... HC	Netherlands ..... VO	United States ..... W
Egypt ..... SU	Newfoundland ..... YJ	Uruguay ..... CX
Ellice Islands ..... VP1	New Caledonia ..... YL	U. S. S. R. ..... U
Esthonia ..... ES	New Hebrides ..... ZL	Venezuela ..... YV
Ethiopia (See Abyssinia) ..... VQ1	New Zealand ..... YN	Virgin Islands ..... K4
Fanning Island ..... VP1	Nicaragua ..... ZD	Zanzibar ..... VP1
Fiji Islands ..... OH	Nigeria ..... GI	
Finland ..... OH	Northern Ireland ..... GI	

## PREFIXES BY CALLS

AC ..... China	J ..... Japan, Chosen (Korea)	VO ..... Newfoundland
AC4 ..... Tibet	K4 ..... ††Porto Rico, ††Virgin Islands	VP1 ..... ††Ellice Islands, ††Fiji Islands, *Zanzibar
AR ..... Syria	K5 ..... †Canal Zone	VP4 ..... †British Honduras, ††Trinidad
CE ..... Chile	K6 ..... ††Guam, Hawaii, Samoa (U. S.)	VP5 ..... ††Jamaica
CM ..... Cuba	K7 ..... Alaska	VP6 ..... ††Barbados
CP ..... Bolivia	KA ..... Philippine Islands	VP7 ..... ††Bahamas
CR4 ..... *Cape Verde	LA ..... Norway	VP9 ..... ††Bermuda
CR5 ..... *Portuguese Guinea	LU ..... Argentina	VQ1 ..... ††Fanning Island
CR6 ..... *Angola	LX ..... Luxembourg	VQ2 ..... *Northern Rhodesia
CR7 ..... *Mozambique	LY ..... Lithuania	VQ3 ..... *Tanganyika
CR8 ..... Port. India	LZ ..... Bulgaria	VQ4 ..... *Kenya
CR9 ..... Macao	N ..... U. S. (Official)	VQ5 ..... *Uganda
CR10 ..... †Timor	NX ..... **Greenland	VR ..... British Guiana (S. A.)
CT1 ..... Portugal	NY ..... †Canal Zone	VS1, VS2, VS3 ..... Malaya
CT2 ..... **Azores	OA ..... Peru	VS6 ..... Hong Kong
CT3 ..... **Madeira	OE ..... Austria	VS7 ..... ***Ceylon
CX ..... Uruguay	OH ..... Finland	VU ..... India
D ..... Germany	OK ..... Czechoslovakia	W ..... United States
EA ..... Spain	OM ..... ††Guam	X ..... Mexico
EL ..... Irish Free State	ON ..... Belgium, *Congo	XT, XU ..... China
EP, EQ ..... *Liberia	OZ ..... Denmark	YA ..... Afghanistan
ES ..... Esthonia	PA ..... Netherlands	YI ..... Iraq (Mesopotamia)
ET ..... *Ethiopia (Abyssinia)	PJ ..... †Curacao	YJ ..... ††New Hebrides
F France, Algeria, *Morocco, ††Martinique, ††Tahiti	PK ..... †Dutch East Indies (Java, Sumatra, etc.)	YL ..... Latvia
F4 ..... Tunis	PY ..... Brazil	YM ..... Danzig
F8 ..... *Morocco	PZ ..... Surinam (Dutch Guiana)	YN ..... †Nicaragua
FI ..... Fr. Indo-China	SM ..... Sweden	YO thru YR ..... Roumania
G ..... Great Britain	SP ..... Poland	YS ..... †Salvador
GI ..... Northern Ireland	ST ..... *Sudan	YT, YU ..... Jugoslavia
HA ..... Hungary	SU ..... *Egypt	YV ..... Venezuela
HB ..... Switzerland	SV ..... Greece	ZA ..... Albania
HC ..... Ecuador	TA ..... Turkey	ZC ..... Transjordania
HH ..... ††Hayti	TF ..... **Ice'and	ZC6 ..... Palestine
HI ..... ††Dominican Rep.	TG ..... †Guatemala	ZD ..... *Nigeria
HJ, HK ..... Colombian Rep.	TI ..... †Costa Rica	ZE1 ..... *Southern Rhodesia
HP ..... †Panama	TS ..... Saar	ZK ..... ††Cook Is'ands
HR ..... †Honduras	U ..... U. S. S. R. (Russia)	ZL ..... ††New Zea'and
HS ..... Siam	V8 ..... ***Mauritius	ZM ..... ††Samoa (British)
HZ ..... Hedjaz	VE ..... Canada	ZP ..... Paraguay
I ..... Italy, *Libya, *Eritrea, *Somaliland	VK ..... Australia	ZS, ZT, ZU ..... *Union of So. Africa

\*Africa, \*\*Atlantic Ocean, †Central America, ††West Indies, †East Indies, ††Pacific Ocean, \*\*\*Indian Ocean.

# Grand Short-Wave Station List

This grand list of short-wave stations, containing almost 8,500 listings, is the result of several years of patient effort, each station being represented by an individual card in a master card file. It has never appeared in print before. Only stations operating below 200 meters are listed. The star broadcasting, radiophone and experimental stations are not included in this list, as they are presented in detail in another part of this book.

Three-letter calls have been assigned to land stations, four-letter calls to ship and portable stations and five-letter calls to aircraft. If the short-wave listener will remember this method of classification he will be able to identify stations more

easily. It should be observed, of course, that ships have no definite location, the words following most of the four-letter calls being only the names of the vessels. The wavelengths are subject to considerable variation, but the figures given are the officially licensed assignments.

In order to save space, the names of various of the large license holders are abbreviated, as follows: R. C. A., Radio Corporation of America; M. R. T., Mackay Radio Telegraph; F. R. T., Federal Radio Telegraph; P. A. A., Pan-American Airways; W. A. E., Western Air Express; T. A. T., Transcontinental Air Transport; D. of C., Department of Commerce, etc.

## K, N and W—UNITED STATES

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KAA	R. C. A., Manila, P. I.	56.11, 53.14, 26.55, 17.72	KDJY	Natchez	96.15, 71.09, 48.30, 48.23	KER	R. C. A., San Francisco, Cal.	28.84
KAL	Legaspi, P. I.	64.31, 50.34	KDKL	Camden		KES	R. C. A., Bolinas, Calif.	28.80
KAM	Passy, P. I.	53.39, 46.5, 26.69	KDLB	Dollar SS. Pres. Hayes	35.50, 26.43, 18.18	KET	R. C. A., Bolinas, Calif.	31.65
KAQ	Manila R. R., Manila, P. I.	50.59	KDLP	Aldon		KEU	Aero Radio, Inc., Los Angeles Calif.	94.9, 94.75, 94.57, 94.39, 53.86, 53
KAS	Surigao, P. I.		KDML	S. C. T. Dodd		KEZ	R. C. A., Bolinas, Calif.	28.846
KAW	Govt., Aparri, P. I.	62.96, 56.88, 45.45	KDMQ	Dollar SS. Pres. Harrison	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFBO	Ara, W. K. Vanderbilt	54.3, 54, 38.19, 27.16, 27, 26.71
KAX	R. C. A., Manila, P. I.	15.95, 15.01	KDMR	U. S. Miller		KFD	Tenakee, Alaska	94.57
KAY	R. C. A., Manila, P. I.	20.03	KDMW	Dollar SS. Pres. Hoover		KFE	Ponca City, Okla.	59.11, 51.9, 45.43
KAZ	R. C. A., Manila, P. I.	30.09, 30.03	KDMX	Dollar SS. Pres. Coolidge		KFEH	Seward	115
KBI	R. C. A., Manila, P. I.	14.19	KDN	D. of C., Rock Springs, Wyo.	89 88.8, 50.51, 50.48, 50.42	KFF	Tex. & La., No. 13, Humble Oil	176.06
KBJ	R. C. A., Manila, P. I.	22.66	KDNY	Dollar SS. Pres. Pierce	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFG	Tex. & La., No. 14, Humble Oil	176.06
KBK	R. C. A., Manila, P. I.	44.84, 44.31	KDOO	Dollar SS. Pres. Polk	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFH	W. W. Horne, Poinsettia	37
KBO	Govt., Manila, P. I.	58.31, 19.987	KDOZ	Dollar SS. Pres. Adams	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFJD	M. & R. Lumber Co., Wader	129.3
KBQ	Manila R. R., Naga, P. I.	50.59	KDPA	Pres. Jackson		KFJ	Inland Waterways, Spray III Light Co., Underwood, Wash.	109.5
KBT	Butuan, P. I.	62.83	KDQW	Cairo	98.15, 71.94, 48.30, 48.23	KFKW		94.9, 94.8, 94.6, 94.4, 94.2, 92.65, 92.5
KBY	Catabato, P. I.—200W	59.46	KDQX	St. Louis	96.15, 71.94, 48.30, 48.23	KFL		54.3, 54, 36.19
KCAA	D. of C., Tulsa, Okla.	89.8, 89.55, 89, 51.50, 50.34	KDR	Dollar SS. Pres. Taft	35.50, 26.43, 18.18	KFLT	Iowa	96.15, 71.94, 48.30, 48.23
KCAC	D. of C., Butte, Mont.	89, 88.8, 50.59, 50.51	KDSC	E. T. Bedford	96.15, 71.93, 48.30, 48.23	KFM	Amer. Radio, Inc., Sacramento, Calif.	94.9, 94.75, 94.57, 94.39, 53, 53.86
KCAD	D. of C., Idaho Falls, Idaho	89, 89.11, 50.51, 50.36	KDSL	Amer. Mail, Pres. McKinley	54.3, 13.357	KFMC	Illinois	96.15, 71.94, 48.30, 48.23
KCAE	D. of C., Winslow, Ariz.	89, 88.3, 73.62, 50.51, 50.34	KDSV	Dollar SS. Pres. Wilson	35.50, 26.43, 18.18	KFMD	Gulfport	96.15, 71.94, 48.30, 48.23
KCAF	D. of C., Albuquerque, N. M.	89, 88.35, 50.51, 50.54	KDTC	Dollar SS. Pres. Garfield	35.50, 26.43, 18.18	KFME	Birmingham	96.15, 71.94, 48.30, 48.23
KCAG	Amarillo, Tex., 400W	88.37, 73.82, 50.55	KDTF	Betty B.	54.3, 54, 36.01	KFMJ	Mobile	96.15, 71.09, 48.30, 48.23
KCAH	D. of C., Kingman, Ariz.	89, 88.8, 50.51, 50.31	KDTM	American Legion		KFO	Amer. Radio, Inc., Oakland, Calif.	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 72.74, 53.86, 53, 48.27
KCAI	D. of C., Waynoka, Okla.	89, 88.3, 73.98, 50.51, 50.34	KDTX	Munson, Southern Cross	54.2, 13.375	KFPA	Boston Fire Dept., F. A. Ring	187.9
KCAJ	D. of C., Little Rock, Ark.	89.6, 89, 50.51, 50.34	KDU	Pres. Grant	35.50, 26.43, 18.18	KFPB	Boston Fire Dept.	182.55
KCAK	D. of C., Shreveport, La.	100.00, 89, 88.63, 50.68, 50.54	KDUY	Dollar SS. Pres. Lincoln	54.2, 13.375	KFPC	A. J. McDonald	187.9
KCAL	Welton, Ariz., 400W	101.4, 89.69, 87.98, 50.38, 37.04	KDV	Ger. Exp. Co., 3rd Rdo. Zone, No. 40	176.06	KFPD	Boston Fire Dept., J. P. Doud	187.9
KCAM	Tucson, Ariz., 400W	100.9, 89.69, 87.98, 50.38, 37.04	KDVV	Amer. Mail, Pres. Madison	54.3, 13.357	KFPI	Capt. J. W. McKee	87.7, 46.95
KCAP	D. of C., Big Spring, Tex.	101.4, 89, 87.98, 50.51, 50.37	KDWH	Memphis	96.15, 71.94, 48.30, 48.23	KFQ	Globe Radio, Guam	40.29, 20.15, 13.239
KCAO	D. of C., El Paso, Tex.	100.8, 89, 87.98, 50.51, 50.37	KDWL	U. S. Steel, Steel Navigator	54.30	KFR	Light Dept., Seattle, Wash.	94.9, 94.8, 94.6, 94.4, 94.2, 92.65, 92.5
KCQ	D. of C., St. Louis, Mo.	100.7, 89, 88.36, 50.51, 50.34	KDWR	Invader		KFS	M. R. T. Co., Palo Alto, Calif.	96.61, 96.15, 54.35, 53.96, 36.23, 27.17, 24.15, 23.9, 18.116, 17, 8.57, 13.73, 13.587
KCR	D. of C., Boise, Idaho	100.94, 89, 88.4, 50.63, 50.51	KDWS	Pres. Roosevelt	54.3, 54, 53.42, 45.52, 45.42, 36.19, 36.01, 27.15, 27	KFSX	Warrior	36.19, 35.50, 27.15, 27, 26.51, 22.66
KCS	D. of C., Pasco, Wash.	89, 88.11, 50.51, 50.36	KDWU	Fortuna	54.3, 54, 53.42, 45.52, 45.42, 36.19, 36.01, 27.15, 27	KFT	Pacific Com. Co., Everett, Wash.	96.61, 96.15, 54.35, 36.23, 34.76, 34.72, 27.17
KCT	D. of C., Los Angeles, Calif.	89.6, 89, 50.68, 50.51	KDX	Ger. Exp. Co., 3rd Rdo. Zone, No. 39	176.06	KFTP	Catalina	129.3
KCU	D. of C., Fresno, Calif.	89.6, 89, 50.68, 50.51	KEB	R. C. A., Bolinas, Calif.	40.71	KFU	Alameda, Calif.	
KCV	D. of C., Oakland, Calif.	89.4, 89, 50.59, 50.51	KEE	R. C. A., Bolinas, Calif.	38.85	KFUH	Kaimiloa	54.3, 54, 36.19
KCX	D. of C., Medford, Ore.	89.6, 89, 50.68, 50.51	KEFZ	States SS. Co., Texas	54.3, 35.50, 27.15, 26.71, 18.09, 18.007	KFV	Los Angeles, Calif.	146.3
KCY	D. of C., Portland, Ore.	89.6, 89, 50.68, 50.51	KEG	Vancouver, Wash.	119.71, 99.7, 91.29, 71.63, 53.72, 50.08	KFVM	Idalia	87.3, 72.3, 47.81, 23.4
KCZ	D. of C., Seattle, Wash.	89.6, 89, 50.68, 50.51	KEGJ	City of Hamburg	54.3, 13.5	KFVJ	Gallavant	110
KDA	D. of C., Maywood, Ill.	89, 88.8, 50.51, 50.42	KEH	Michigan	54, 27, 17.794, 45.52, 51.76, 51.63	KFXT	Shadow K	54.3, 54, 35.5
KDAF	United Fruit Co., Heredia	87.51, 54.3, 35.34, 26.71	KEI	Borger, Tex.	59.11, 58.99, 51.9, 51.76, 51.63	KFY	Humble Oil, Tex. & La., No. 15	176.06
KDAM	West of Notois		KEJ	R. C. A., Bolinas, Calif.	28.240	KFYX	Seaborn	54.3, 36.19, 36.01, 27.15, 27, 26.71, 22.66, 18.09, 13.57
KDAQ	Sixtla		KEK	R. C. A., Bolinas, Calif.	33.29	KGAA	Aras	36.19, 35.5
KDC	Globe Wireless, Guam	96.61, 96.15, 72.89, 54.35, 46.88, 36.23, 34.56, 27.17, 26.6, 24.15, 24.01, 18.116, 17.921, 13.652, 13.587	KEK	M. R. T., Hillsboro, Ore.	63.09, 54.3, 50.46, 45.73, 27.15, 26.50, 18.09, 13.85, 13.57	KGAT	J. H. Oberfelder, Marj. III	53.42, 36.01
KDCA	Independence Hall		KEK	Saguadre		KGAW	Halgomian	54.3, 54, 35.5
KDCK	United Fruit, La Perla	54.3, 45.2k, 36.01, 27.15, 26.71, 22.66, 18.094, 17.794	KEK	R. C. A., Bolinas, Calif.	43.73	KGBB	Ivaner	109.56
KDCM	Dollar SS. Pres. Cleveland	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KEK	R. C. A., Bolinas, Calif.	19.36	KGCB	Trans. Co., John N. Stewart	109.5
KDCR	Guirigua		KEK	R. C. A., Bolinas, Calif.	43.82	KGCBT	Enchantress	
KDQ	Press Wireless, Honolulu, T. H.	60.18, 56.76, 56.55, 40.87, 40.79, 40.71, 38.36, 38.29, 37.72, 19.21, 18.92, 15.51	KEK	R. C. A., Hahukii, P. I.	44.56, 43.54	KGCV	Fan Kwai	109.5
KDGN	Donna Lane	35.39	KEK					
KDGH	Ger. Exp. Co., 3rd Rdo. Zone, No. 41	176.06						
KDHF	Dollar SS. Pres. Van Buren	35.50, 26.43, 18.18						
KDHL	Argosy	36.19, 36.01, 35.5, 27.15, 27, 26.71, 22.66, 18.094, 18.007, 17.794						
KDK	Kuhuku, Hawaii. 80KW	39.89						



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
<b>KG D</b>	D. of C., Salt Lake City, Utah	89.3, 89, 50.68, 50.51	<b>KGPD</b>	Police, San Francisco, Calif.	124.2			94.39, 94.26, 53.86, 53
<b>KGDF</b>	Ervina V.	110	<b>KGPE</b>	Police, Kans. City, Mo.	123.8	<b>KGTP</b>	Aero Radio, Inc.	105.12, 89.83, 55.79
<b>KGDU</b>	Petaluma		<b>KGPF</b>	Police, Vallejo, Calif.	123.8	<b>KGTR</b>	Aero Radio, Inc., Springfield, Mo.	97.33, 86.5, 54.44, 47.13, 37.43, 24.63
<b>KG E</b>	Four Winds	54.3, 36.19, 27.15, 22.66, 18.09, 17.79	<b>KGPH</b>	Police, Okla. City, Okla.	122.4			
	Aero Radio, Inc., Medford, Ore.	94.9, 94.76, 94.57, 94.39, 53.86, 53	<b>KGPI</b>	Police, Omaha, Nebr.	121.5	<b>KGTS</b>	Aero Radio, Inc., Omaha, Nebr.	128.53, 37.43
<b>KGEB</b>	Trans. Co., Milton Patrick	109.1	<b>KGPJ</b>	Police, Beaumont, Tex.	175.15	<b>KGTT</b>	Aero Radio, Inc., Cheyenne, Wyo.	103.23, 97.63, 97.32, 97.15, 54.43, 54.15, 52.88, 52.7
<b>KGEC</b>	Trans. Co., D. M. Renton	109.5	<b>KGPK</b>	Police, Sioux City, Ia.	121.5			
<b>KGEG</b>	Northern Light	54.3, 54, 36.01, 22.66, 18.067	<b>KGPL</b>	Police, Los Angeles, Calif.	175.15	<b>KGTV</b>	Aero Radio, Inc., Lake Charles, La.	92.8, 53.20
<b>KG F</b>	Globe Wireless, Musselrich, Calif.	40.38	<b>KGPM</b>	Police, San Jose, Calif.	124.2	<b>KGUA</b>	Aero Radio, Inc., Beaumont, Calif.	92.8, 53.30
<b>KG FQ</b>	A. & P., Nakan, No. 7	129.3	<b>KGPN</b>	Police, Davenport, Ia.	121.5	<b>KGUB</b>	Aero Radio, Inc., Houston, Tex.	128.97, 127.98, 72.46, 47.92, 47.8
<b>KG FZ</b>	Yoreda	109	<b>KGPO</b>	Police, Salt Lake City, Utah.	121.5			
<b>KG G</b>	Globe Wireless, Musselrich, Calif.	40.29	<b>KGPP</b>	Police, Denver, Colo.	123.8	<b>KGUC</b>	Aero Radio, Inc., San Antonio, Tex.	128.97, 127.08, 72.46, 47.92, 47.89
<b>KGGL</b>	Iolanthe	129.8, 69.56, 34.76	<b>KGPR</b>	Police, Fort Worth, Tex.	175.15	<b>KGUE</b>	Aero Radio, Inc., Brownsville, Tex.	128.97, 47.8
<b>KG H</b>	M. R. T. Co., Hillsboro, Cal.	96.61, 96.15, 68.17, 68.10, 68.03, 67.95, 54.34, 50.21, 48.31, 47.92, 27.17, 26.95, 18.116, 17.5, 13.777, 13.587	<b>KGPS</b>	Police, Bakersfield, Calif.	124.27	<b>KGUF</b>	Aero Radio, Inc., Dallas, Tex.	129.53, 127.33, 93.09, 92.8, 92.52, 92.9, 87.02, 86.77, 86.52, 86.08, 72.9, 53.55, 53.45, 53.26, 45.87, 45.8, 45.73, 37.43
			<b>KGPT</b>	Police, Salt Lake City, Utah.	121.5			
<b>KG J</b>	Globe Wireless, Calif.	31.88	<b>KGQ</b>	Dollar Co., San Francisco, Calif.	40.29, 31.88, 27.45, 20.15, 15.94, 13.21	<b>KGUG</b>	Aero Radio, Inc., Big Springs, Tex.	129.53, 127.33, 92.8, 92.52, 92.09, 87.02, 53.29, 45.8, 37.43
<b>KG JB</b>	Market Service, Indio	92.3, 70.67, 55.92, 34.05, 29.97	<b>KGQ E</b>	Einar Beyer	123.55	<b>KGUH</b>	Aero Radio, Inc., Waco, Tex.	128.97, 127.98, 72.46, 47.92, 47.89
<b>KG JG</b>	State Dept., Modesto, Calif.	92.3, 70.67, 55.92, 34.05, 29.97	<b>KGQ F</b>	America	121.3	<b>KGUI</b>	Aero Radio, Inc., Fort Worth, Tex.	94.9, 94.75, 94.57, 94.39, 53.86, 53
<b>KG JI</b>	Market Serv., Fresno, Calif.	92.3, 70.67, 55.92, 34.05, 29.97	<b>KGQ G</b>	Inland W. W., James W. Good	87.7, 40.05	<b>KGUJ</b>	Aero Radio, Inc., Burbank, Calif.	128.97, 127.98, 72.46, 47.92, 47.8
<b>KG JJ</b>	Pilot Assn., San Francisco, Calif.	122.6	<b>KGQ H</b>	Inland W. W., Patrick J. Hurley	87.7, 46.04	<b>KGUK</b>	Aero Radio, Inc., Shreveport, La.	86.10, 53.20
<b>KG JK</b>	A. H. Bull, SS., Jeanette	129.3	<b>KGQ I</b>	Freetas, Navigator	54.3, 36.19, 35.5	<b>KGUM</b>	Aero Radio, Inc., Friole, Tex.	128.97, 127.97, 86.10, 72.46, 53.29, 47.92, 47.80
<b>KG JL</b>	3rd Radio Zone, No. 47	176.06	<b>KGQ J</b>	Vileehl	36.19, 17.794	<b>KGUN</b>	Aero Radio, Inc., Douglas, Ariz.	128.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
<b>KG JM</b>	3rd Radio Zone, No. 46	176.06	<b>KGQ K</b>	Wm. J. Gaynor, City of N. Y.	187.9	<b>KGUO</b>	Aero Radio, Inc., Tucson, Ariz.	86.10, 53.26
<b>KG JN</b>	Ger. Exp. Co., 3rd Radio Zone, No. 45	176.06	<b>KGQ L</b>	Silvera	36.01	<b>KGUP</b>	Amer. Radio, Inc., Phoenix, Ariz.	128.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
<b>KG JO</b>	Ger. Exp. Co., 3rd Radio Zone, No. 44	176.06	<b>KGQ M</b>	Tipperman	54.3, 27.15	<b>KGUQ</b>	Aero Radio, Inc., Indio, Calif.	128.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
<b>KG JP</b>	Ger. Exp. Co., 3rd Radio Zone, No. 43	176.06	<b>KGQ N</b>	Aero Radio, Inc., San Diego, Calif.	94.9, 94.75, 94.6, 94.39, 53.86, 53	<b>KGUR</b>	Aero Radio, Inc., Burbank, Calif.	129.53, 127.33, 92.8, 92.52, 92.09, 87.02, 53.29, 45.8, 37.43
<b>KG JQ</b>	Ger. Exp. Co., 3rd Radio Zone, No. 42	176.06	<b>KGQ O</b>	Globe Wireless, Edmonds, Wash.	40.38, 40.29, 31.88, 27.45, 20.19, 20.15, 15.94, 13.29	<b>KGUS</b>	Aero Radio, Inc., Blythe, Calif.	128.57, 127.08, 72.49, 47.92, 47.81
<b>KG JW</b>	P. A. A., Brownsville, Tex.	72.74, 46.91, 112.7	<b>KGQ P</b>	Invincible	117.2	<b>KGUT</b>	Aero Radio, Inc., Robertson, Mo.	110.20 to 24.03
<b>KG JX</b>	Police, Pasadena, Calif.	175.23	<b>KGQ R</b>	Inland W. W., Tennessee	96.21, 54.3, 54, 36.01	<b>KGUV</b>	Aero Radio, Inc., Little Rock, Ark.	128.97, 47.8
<b>KG K</b>	Globe Wireless, Musselrich, Calif.	27.45	<b>KGQ S</b>	Indiana	96.21, 54.3, 54, 36.01	<b>KG V</b>	Globe Wireless, Musselrich, Calif.	15.94
<b>KG KO</b>	Air Lines, Santa Maria, Cal.	185.94, 127.98, 62.69	<b>KGQ T</b>	Louisiana	96.21, 54.3, 54, 36.01	<b>KG VQ</b>	Cont. Oil, No. 3	187.5, 181.6, 180.29, 178.6, 176.06
<b>KG KN</b>	Forestry Div., Calif.	62.76, 34.97	<b>KGQ U</b>	St. Veronica	54.3, 54, 36.01	<b>KG VR</b>	Cont. Oil Co., No. 4	187.5, 181.6, 180.29, 178.6, 176.06
<b>KG KP</b>	Forestry Div., Wash.	62.76, 34.97	<b>KGQ V</b>	Santrammaro	54.3, 54, 36.01	<b>KG VS</b>	Cont. Oil Co., No. 5	187.5, 181.6, 180.29, 178.6, 176.06
<b>KG KR</b>	3rd Radio Zone, No. 48	176.06	<b>KGQ W</b>	Parthenio S. S.	54.3 to 27.61	<b>KG VT</b>	Cont. Oil Co., No. 6	187.5, 181.6, 180.29, 178.6, 176.06
<b>KG KS</b>	3rd Radio Zone, No. 49	176.06	<b>KGQ X</b>	Pilot Ship, Adventurers, San Fran.	117.2	<b>KG VV</b>	Nyac, Alaska	94.9
<b>KG KT</b>	3rd Radio Zone, No. 50	176.06	<b>KGQ Y</b>	Defender	54.3, 36.19, 35.50	<b>KG VU</b>	Cont. Oil Co., No. 7	187.5, 181.6, 180.29, 178.6, 176.06
<b>KG KU</b>	3rd Radio Zone, No. 51	176.06	<b>KGQ Z</b>	Dollar Co., Honolulu, T. H.	40.38, 40.39, 31.88, 27.45, 20.19, 20.15, 15.94, 13.25	<b>KG VW</b>	E. R. P. I., Los Angeles, Cal.	193.65
<b>KG KZ</b>	Humbolt Oil, No. 16	187.27, 176.47				<b>KG WA</b>	Press Wireless, San Francisco, Calif.	63.83, 66.44
<b>KG L</b>	Globe Wireless, Musselrich, Calif.	20.19	<b>KG SB</b>	Aero Radio, Inc., Oakland, Calif.	97.7, 86.7, 47.24, 37.43, 24.63	<b>KG WB</b>	Press Wireless, Dallas, Tex.	63.22
<b>KG M</b>	Ketchikan, Alaska	129.3, 94.9	<b>KG SC</b>	Aero Radio, Inc., Okla. City, Okla.	97.7, 86.7, 47.24, 37.43, 24.63	<b>KG WC</b>	Press Wireless, Kansas City, Mo.	60.30
<b>KG ME</b>	Texas, Ia. & Okla., Portable	175	<b>KG SD</b>	Aero Radio, Inc., Lordsburg, N. Mex.	120.87, 86.7, 52.72, 46.8	<b>KG WD</b>	Press Wireless, Denver, Colo.	63.49
<b>KG MF</b>	Texas, Ia. & Okla., Portable	175	<b>KG SE</b>	Amer. Radio, Inc., Pueblo, Colo.	110.21, 109.72, 97.71, 97.5, 73.02, 54.15, 47.24, 37.43	<b>KG WE</b>	Press Wireless, Los Angeles, Calif.	60.66, 66.33
<b>KG MG</b>	Texas, Ia. & Okla., Portable	175	<b>KG SF</b>	Gulf Prod. Co., Portable	187.5, 181.6, 180.29, 178.6, 178.08	<b>KG WF</b>	Minneapolis, Minn., 10W	60.79
<b>KG MH</b>	Texas, Ia. & Okla., Portable	175	<b>KG T</b>	Aero Radio, Inc., Fresno, Calif.	94.85, 94.55, 53.835, 53.74, 52.98	<b>KG WG</b>	Press Wireless, Seattle, Wash.	63.35
<b>KG MI</b>	Texas, Ia. & Okla., Portable	175	<b>KG TA</b>	Aero Radio, Inc., Winslow, Ariz.	110.21, 109.72, 97.7, 97.53, 73.02, 54.15, 47.27, 37.43			
<b>KG MJ</b>	Texas, Ia. & Okla., No. 7, Portable	175	<b>KG TB</b>	Aero Radio, Inc., Texarkana, Ark.	129.53, 37.43			
<b>KG MK</b>	Texas, Ia. & Okla., No. 8, Portable	175	<b>KG TC</b>	Aero Radio, Inc., Watertown, S. Dak.	94.86, 94.56, 94.26, 53.83, 53.74, 52.98			
<b>KG ML</b>	Texas, Ia. & Okla., No. 9, Portable	175	<b>KG TD</b>	Aero Radio, Inc., Wichita, Kans.	97.71, 97.52, 54.15			
<b>KG MN</b>	Texas, Ia. & Okla., No. 10, Portable	175	<b>KG TE</b>	Aero Radio, Inc., Wichita, Kans.	94.9, 94.75, 94.54, 94.39, 92.26, 53.86, 53			
<b>KG MO</b>	Texas, Ia. & Okla., No. 11, Portable	175	<b>KG TF</b>	Aero Radio, Inc., San Diego, Calif.	129.53, 37.43			
<b>KG MP</b>	Atlantic	54.3, 54, 39.19, 27.15, 27	<b>KG TG</b>	Aero Radio, Inc., Sioux Falls, S. Dak.	94.86, 94.56, 94.26, 53.85, 53.74, 52.98			
<b>KG MQ</b>	Patria	54.3, 54, 36.19, 27.15, 27	<b>KG TH</b>	Aero Radio, Inc., Salt Lake City, Utah	110.21, 109.72, 97.71, 97.52, 73.02, 54.15, 47.02, 37.43			
<b>KG MU</b>	F. F. F.	54.3, 54, 39.01, 27.15, 27	<b>KG TI</b>	Aero Radio, Inc., Las Vegas, Nev.	110.21, 109.72, 97.71, 97.52, 73.02, 54.15, 47.24, 37.43			
<b>KG MW</b>	Wilm. Trans., Jimmie K.	118.85, 117.18, 116.65	<b>KG TJ</b>	Aero Radio, Inc., Kingman, Ariz.	110.21, 109.72, 97.71, 97.53, 73.02, 54.15, 47.24, 37.43			
<b>KG NA</b>	Western Radio Co., Crane, Tex.	59.11, 59.0, 58.99, 51.80, 51.76, 51.63	<b>KG TK</b>	Aero Radio, Inc.				
<b>KG NB</b>	Western Radio Co., Wink, Tex.	59.11, 58.99, 51.9, 51.76, 51.03	<b>KG TL</b>	Aero Radio, Inc.				
<b>KG NC</b>	Western Radio Co., Jal., N. Mex.	59.11, 58.99, 51.9, 51.76, 51.03	<b>KG TM</b>	Aero Radio, Inc., Sioux City, Ia.	94.86, 94.56, 94.26, 53.85, 53.74, 52.98			
<b>KG ND</b>	Doris E.	129.31, 123.85	<b>KG TN</b>	Aero Radio, Inc., Las Vegas, Nev.	103.24, 97.64, 97.32, 95.15, 54.45, 54.15, 52.89, 52.17			
<b>KG NE</b>	Gulf Prod., Western States	176.06	<b>KG TO</b>	Aero Radio, Inc., U. S. Throughout	94.9, 94.75, 94.57			
<b>KG NF</b>	Brant	129.3, 54.3, 53.42						
<b>KG NG</b>	Alaska Fisheries, Yes Bay	129.31						
<b>KG NH</b>	Canadobhta	118.85, 117.18, 116.09						
<b>KG NI</b>	Wilmington, Trans., Listo	118.85, 117.18, 116.09						
<b>KG NJ</b>	Listo	118.85, 117.18, 116.09						
<b>KG NK</b>	Wilmington Trans. Co., Vivo	118.85, 117.18, 116.09						
<b>KG NL</b>	F. P. C., No. 2	54.3, 54						
<b>KG NM</b>	Zaea	36.19, 35.50, 27.15, 26.71, 22.66, 18.094						
<b>KG NO</b>	David B.	94.22						
<b>KG NP</b>	Honolulu, Hawaii	115.55, 105.12						
<b>KG NQ</b>	Mauna, Hawaii	115.55, 105.12						
<b>KG NR</b>	Infanta							
<b>KG NS</b>	Police, Cedar Rapids, Ia.	121.5						
<b>KG NT</b>	Alaska Fishing Co., Alaska	129.3, 94.75						
<b>KG NU</b>	Police, Seattle, Wash.	124.2						
<b>KG NV</b>	Police, Minneapolis, Minn.	124.2						
<b>KG NW</b>	Police, St. Louis, Mo.	122.24						

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KGWH	Press Wireless, Salt Lake City, Utah	60.91	KHATH	P. A. A., NC 9151	130.32, 97.5, 72.74	KHIGT	Alaska Air, Ketchikan	96.58
KGWN	Lustania	54.3, 54, 36.19	KHAUF	P. A. A., NC 231E	130.32, 97.5, 72.74	KHIHS	Northwest Air, NC 7523	96.58
KGWT	Export SS. Co., Escalibur	35.5, 27.15, 27, 22.66, 18.094	KHAYE	P. A. A., NC 8020	130.32, 97.5, 72.74	KHIKP	Pilgrim, NC 9A	96.52
KGWU	Rajo	54.3, 54, 45.21, 36.10, 36.01, 35.5, 27.15, 27	KHAWD	P. A. A., NC 395E	130.32, 97.5, 72.74	KHILO	Goodyear, NC 8A	96.52, 54.35
KGWV	Fox Films, Beverly Hills, Calif.	196.59	KHAYC	P. A. A., NC 396E	130.32, 97.5, 72.74	KHIMN	Inter. Island Air, Molokai	96.58
KGWW	Fox Films, Beverly Hills, Calif.	193.30, 192.80	KHAYB	Hoyt, NC 7770	130.32	KHINM	So. Radio Co., NC 23V	96.58
KGWX	Alt. B. C. Co., Calif.	196.59	KHBAZ	B. A. T., C 269	119.7, 71.62, 53.71	KHIOL	G. A. C. (Fokker) 742H	96.58
KGX	Los Angeles, Calif.	40.38, 40.29, 31.88, 27.45, 20.19, 20.15, 15.94, 13.25	KHBBY	B. A. T., C 270	119.7, 71.62, 53.71	KHIQJ	Thompson Air Co., NC 5999	96.58
KGXA	Mutual Tel., Okau Is., Hawaii	7.56	KHBCX	B. A. T., C 272	119.7, 71.62, 53.71	KHIRI	Inter. Island Air, Hawaii	96.58
KGXB	Mutual Tel., Okau Is., Hawaii	6.494	KHBEV	B. A. T., C 274	119.7, 71.62, 53.71	KHISH	Inter. Island Air, Maui	96.58
KGXC	Mutual Tel., Okau Is., Hawaii	8.02	KHBFU	B. A. T., NC 1003	96.62, 94.86, 94.56, 94.23, 53.83, 53.74, 52.98	KHITG	Thompson Air, NC 9784	96.58
KGXD	Mutual Tel., Okau Is., Hawaii	5.952	KHBGT	B. A. T., C 276	119.7, 71.62, 53.71	KHIWD	Puritan, NC 7A	96.58
KGXE	Mutual Tel., Okau Is., Hawaii	8.52	KHBHS	B. A. T., C 277	119.7, 71.62, 53.71	KHIYB	NC 740M	96.58, 95.48, 53
KGXF	Mutual Tel., Okau Is., Hawaii	7.177	KHBIR	B. A. T., NC 10353	119.7, 71.62, 53.71	KHJAZ	B. A. T., C 183E	96.58, 95.48, 53
KGXG	Mutual Tel., Okau Is., Hawaii	5.682	KHBJQ	B. A. T., C 279	119.7, 71.62, 53.71	KHJBY	B. A. T., C 415E	96.58, 95.48, 53
KGXH	Mutual Tel., Okau Is., Hawaii	6.193	KHBKP	B. A. T., C 281	119.7, 71.62, 53.71	KHJCX	B. A. T., C 418E	96.58, 95.48, 53
KGXI	Mutual Tel., Maui Is., Hawaii	6.903	KHBLD	B. A. T., NC 10354	See KHDDW	KHJDW	B. A. T., C 192E	96.58, 95.48, 53
KGXJ	Mutual Tel., Maui Is., Hawaii	7.371	KHBMN	B. A. T., C 283	119.7, 71.62, 53.71	KHJEV	B. A. T., C 191E	96.58, 95.48, 53
KGXK	Mutual Tel., Waikii, Hawaii	6.061	KHBNL	B. A. T., C 281	119.7, 71.62, 53.71	KHJFU	B. A. T., C 7137	96.58, 95.48, 53
KGXL	Mutual Tel., Waikii, Hawaii	7.79	KHBOL	B. A. T., C 285	119.7, 71.62, 53.71	KHJGT	B. A. T., C 7136	96.58, 95.48, 53
KGXM	Mutual Tel., Waikii, Hawaii	8.26	KHBQJ	B. A. T., C 287	119.7, 71.62, 53.71	KHJHS	B. A. T., C 7135	96.58, 95.48, 53
KGXN	Mutual Tel., Molokai, Hawaii	5.814	KHBRJ	B. A. T., C 289	119.7, 71.62, 53.71	KHJIR	B. A. T., C 187E	96.58, 95.48, 53
KGXO	Mutual Tel., Kahala, Hawaii	6.34	KHBVE	B. A. T., C 292	119.7, 71.62, 53.71	KHJJQ	B. A. T., C 189E	96.58, 95.48, 53
KGXP	Mutual Tel., Lanai Is., Hawaii	5.525	KHBWD	B. A. T., NC 231	119.7, 71.62, 53.71	KHJKP	B. A. T., C 190E	96.58, 95.48, 53
KGXQ	Aero Radio, Inc., Mills Field, Calif.	32.5, 31.58, 29.72	KHBCX	B. A. T., NC 725W	96.59, 94.57, 53	KHJOL	B. A. T., C 188E	96.58, 95.48, 53
KGXS	Gulf Prod. Co., Portable, U. S. A.	187.5, 181.6, 180.29, 178.6, 178.08	KHBYB	B. A. T., NC 228M	96.59, 94.57, 53	KHJMM	B. A. T., C 185E	96.58, 95.48, 53
KGXT	Gulf Prod. Co., Portable, U. S. A.	187.27, 176.47	KHCAZ	B. A. T., NC 10225M	97.71, 96.58, 86.70, 47.24, 46.37	KHJOL	B. A. T., C 224M	96.58, 95.48, 53
KGXU	Port Armstrong, Alaska	94.39	KHCBY	W. A. E., F 104	97.71, 96.58, 86.70, 47.24, 46.37	KHJRI	B. A. T., NC 793K	96.59, 94.57, 53
KGXV	Kennedi Kodiak, Alaska	101.82	KHCFU	W. A. E., F 105	97.71, 96.58, 86.70, 47.24, 46.37	KHJSH	B. A. T., NC 226M	96.59, 94.57, 53
KGXY	Gulf Prod. Co., Portable, U. S. A.	187.5, 181.6, 180.29, 178.6, 178.08	KHCGT	W. A. E., F 109	97.71, 96.58, 86.70, 47.24, 46.37	KHJTG	B. A. T., NC 227M	96.59, 94.57, 53
KGYA	D. of Int., Mt. Rainier, Wash.		KHCGT	W. A. E., F 110	97.71, 96.58, 86.70, 47.24, 46.37	KHJUF	B. A. T., NC 842M	96.58, 94.57, 53
KGYB	D. of Int., Mt. Rainier, Wash.		KHCHS	W. A. E., F 111	97.71, 96.58, 86.70, 47.24, 46.37	KHJVE	B. A. T., NC 220M	96.58, 94.57, 53
KGYC	D. of Int., Mt. Rainier, Wash.		KHCKP	W. A. E., F 115	97.71, 96.58, 86.70, 47.24, 46.37	KHJWD	B. A. T., NC 229M	96.58, 94.57, 53
KGYD	D. of Int., Mt. Rainier, Wash.		KHCKP	W. A. E., F 115	97.71, 96.58, 86.70, 47.24, 46.37	KHJXC	B. A. T., NC 232M	96.58, 94.57, 53
KGYE	D. of Int., White River, Wash.		KHCLO	W. A. E., Fokker 2	97.71, 96.58, 86.70, 47.24, 46.37	KHJYB	B. A. T., C 7471	96.59, 94.57, 53
KGYF	D. of Int., Carlton River, Wash.		KHGMN	W. A. E., Fokker 3	97.71, 96.58, 86.70, 47.24, 46.37	KHJZK	B. A. T., NC 234M	96.59, 94.57, 53
KGYH	D. of Int., Mt. Rainier, Wash.		KHGMN	W. A. E., No. 401, W. A. E.	97.71, 96.58, 86.70, 47.24	KHK	Mutual Tel., Vieques Hawaii	96.59, 54.3, 46.04, 18.009, 17.761
KGYI	D. of Int., Mt. Rainier, Wash.		KHCPK	W. A. E., No. 402, W. A. E.	97.71, 96.58, 86.70, 47.24	KHKIR	N. Y. R. B. A., X 657M	96.59
KGYJ	D. of Int., Mt. Rainier, Wash.		KHCSH	W. A. E., No. 51, W. A. E.	97.71, 96.58, 86.70, 47.24	KHKPK	N. Y. R. B. A., Trinidad	52.45, 71.2
KGYT	Tyee, Alaska	118.2	KHCTG	W. A. E., No. 52, W. A. E.	97.71, 96.58, 86.70, 47.24	KHKL	Mutual Tel., Waechich T. H.	91.62, 94.86, 94.50, 94.26, 53.83, 53.74, 52.98
KGZ	Globe Wireless, Musselrich, Calif.	13.216	KHCUF	W. A. E., No. 53, W. A. E.	97.71, 96.58, 86.70, 47.24	KHLAZ	P. A. T., C 178E	91.58, 95.48, 53
KGZA	Police, Fresno, Calif.	124.17	KHCWD	W. A. E., No. 54	97.71, 96.58, 86.70, 47.24	KHLBY	P. A. T., C 179E	91.62, 94.86, 94.50, 94.26, 53.83, 53.74, 52.98
KGZB	Police, Houston, Tex.	175.23	KHCXZ	W. A. E., No. 55	97.71, 96.58, 86.70, 47.24	KHLDW	P. A. T., NC 741K	96.58, 95.48, 53
KGZC	Police, Topeka, Kans.	123.86	KHDAC	T. A. T., City of New York	123	KHLGT	P. A. T., C 5389	96.58, 95.48, 53
KGZD	Police, San Diego, Calif.	123.5	KHDDB	T. A. T., Kansas City	123	KHLIR	P. A. T., NC 10342	96.59, 94.57, 53
KGZE	Police, San Antonio, Tex.	119.71	KHDCX	T. A. T., City of Albuquerque	123	KHLJQ	P. A. T., NC 10343	94.9, 94.75, 94.57, 94.39, 96.59, 43
KGZF	Police, Chanute, Kans.	122.4	KHDDW	T. A. T., City of Washington	128	KHLKP	P. A. T., NC 1426	94.9, 94.75, 94.57, 94.39, 96.59, 43
KGZG	Des Moines, Ia.	121.5	KHDEW	T. A. T., City of Wichita	128	KHLLO	P. A. T., No. 1427	94.9, 94.75, 94.57, 94.39, 96.59, 43
KGZJ	Phoenix, Ariz.	123.45	KHDFV	T. A. T., City of Los Angeles	128	KHLNM	P. A. T., NC 431H	96.59, 94.9, 94.73, 94.57, 94.39, 96.59, 43
KGZK	Salem, Ore.	122.95	KHDGT	T. A. T., City of Indianapolis	128	KHLOL	P. A. T., NC 10348	96.58, 95.48, 53
KGZO	Santa Barbara, Calif.	124.17	KHDHS	T. A. T., City of Columbus	128	KHLPP	P. A. T., NC 215M	96.58, 95.48, 53
KGZS	McAlester, Okla.	122.4	KHDJR	T. A. T., NC 9536	128	KHLQJ	P. A. T., NC 584K	96.58, 95.48, 53
KHA	Uyak, Alaska	123.55	KHDJP	T. A. T., City of St. Louis	128	KHLR	P. A. T., NC 435H	96.58, 95.48, 53
KHAAB	P. A. A., NC 9775	130.32, 97.5, 72.74	KHDKQ	T. A. T., City of Philadelphia	128	KHLTG	P. A. T., NC 437H	96.58, 95.48, 53
KHABY	P. A. A., NC 9766	130.32, 97.5, 72.74	KHDLD	T. A. T., NC 127W	128	KHLTH	P. A. T., NC 439 H	96.58, 95.48, 53
KHADW	P. A. A., NC 9664	130.32, 97.5, 72.74	KHDUF	T. A. T., NC 9686	128	KHLVF	P. A. T., NC 9553	96.62, 94.86, 94.56, 94.23, 53.83, 53.74, 52.98
KHAEV	P. A. A., NC 454E	130.32, 97.5, 72.74	KHDVE	T. A. T., NC 9638	128	KHLWD	P. A. T., NC 9655	96.62, 94.86, 94.56, 94.23, 53.83, 53.74, 52.98
KHAFU	P. A. A., C 268	119.7, 71.62, 53.71	KHDVD	T. A. T., NC 9639	128	KHLYB	P. A. T., NC 1049	96.62, 94.86, 94.56, 94.23, 53.83, 53.74, 52.98
KHAHS	P. A. A., NC 9685	130.32, 97.5, 72.74	KHDVW	T. A. T., NC 9640	128	KHLZA	P. A. T., NC 1049	96.62, 94.86, 94.56, 94.23, 53.83, 53.74, 52.98
KHAIR	W. A. E., F 103	97.71, 96.58, 86.70, 47.24, 46.37	KHDYB	T. A. T., NC 9641	128	KHM	Mutual Tel., Lanai, Hawaii	52.44, 52.17
KHAKP	P. A. A., NC 8000	130.32, 97.5, 72.74	KHDZA	T. A. T., NC 8413	96.58	KHMDW	T. A. T., NC 185H	96.58, 92.13, 62.58, 46.69
KHALO	P. A. A., NR 41. W	97.71, 97.5, 52.72, 34.68	KHECK	Suburban Lines, NC 9157	96.58	KHMEV	T. A. T., NC 725K	96.61
KHAMN	P. A. A., American Clipper	97.71, 97.5, 52.72, 34.68	KHEMN	NC 800E	96.58	KHMFU	T. A. T., NC 726K	96.62, 54.35
KHANM	P. A. A., Caribbean Clipper	97.71, 97.5, 52.72, 34.68	KHEPP	NC 100K	96.58	KHMGJ	T. A. T., NC 4811	96.62, 54.35
KHAOL	P. A. A., NC 9701	130.32, 97.5, 72.74	KHERI	N. Y. R. B. A., Havana	96.58	KHMHS	T. & W. A., NC 933Y	96.58, 86.10, 53.67
KHAPK	P. A. A., NC 8044	130.32, 97.5, 72.74	KHESH	N. Y. R. B. A., Cuba	96.58	KHMJQ	T. & W. A., NC 947Y	96.58, 86.10, 53.67
KHAQI	P. A. A., NC 9637	130.32, 97.5, 72.74	KHETG	N. Y. R. B. A., San Juan	96.58	KHMKP	T. & W. A., NC 961Y	96.58, 86.10, 53.67
KHARJ	P. A. A., NC 9073	130.32, 97.5, 72.74	KHEYB	N. Y. R. B. A., Haiti	96.58	KHMLC	T. & W. A., NC 969Y	96.58, 86.10, 53.67
KHASH	P. A. A., NC 9107	130.32, 97.5, 72.74	KHEZA	N. Y. R. B. A., Port of Spain	96.58	KHMNN	T. & W. A., NC 985Y	96.58, 86.10, 53.67
			KHFAZ	P. A. A., NC 9137	130.32, 97.5, 72.74	KHMOL	T. & W. A., NC 986Y	96.58, 86.10, 53.67
			KHFGT	P. A. A., NC 670M	112.70, 97.71, 96.58, 52.72	KHMPK	T. & W. A., NC 992Y	96.58, 86.10, 53.67
			KHFRJ	P. A. A., NC 814H	112.70, 97.71, 96.58, 52.72	KHMJQ	T. & W. A., NC 993Y	96.58, 86.10, 53.67
			KHFTG	P. A. A., NC 914H	112.70, 97.71, 96.58, 52.72	KHMRI	T. & W. A., NC 994Y	96.58, 86.10, 53.67
			KHFWD	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHN	Mutual Tel. Co., Lanai, Hawaii	52.44, 52.17
			KHFYB	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNAZ	N. A. T., NC 369N	96.58, 92.13, 62.58, 46.69
			KHFZA	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNBV	Private, NR 914	96.61
			KHHAZ	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNCX	Private, NC 447V	96.62, 54.35
			KHBBX	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNDW	Goodyear Resolute, NC 15 A	96.61
			KHBDV	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNFU	Goodyear, NC 14A	96.62, 54.35
			KHBEV	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNIR	Alaska-Wash., Sitka	96.58, 86.10, 53.67
			KHBFU	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNMM	C. A. T., NC 8486	96.58, 86.10, 53.67
			KHBLD	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNMM	C. A. T., Naugatuck	96.58, 86.10, 53.67
			KHBMN	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNOL	C. A. T., NC 9677	96.58, 86.10, 53.67
			KHBNL	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNPK	C. A. T., NC 9681	96.58, 86.10, 53.67
			KHBRJ	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNTH	St. I. Oil, Calif., NC 233M	96.59
			KHBVE	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNVE	Bell Lab., NC 952V	96.59
			KHBWD	P. A. A., NC 9688	112.70, 97.71, 96.58, 52.72	KHNWD	Bell Lab., NC 417H	96.59



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KHP	Geo. Research Co., 5th Rdo. Zone.	176.06	KHUC	Penna. Air., NC 10822	177.72, 97.71, 62.72, 34.68	KHY	Libby M., Niel Mauna, Hawaii	115.56
KHPAZ	Varney Air, NC 830M	96.59, A3	KHUDW	Penna. Air., NC 10823	177.72, 97.71, 62.72, 34.68	KHYAZ	P. A. A., NC 397H	177.72, 97.71, 62.72, 34.68
KHPBY	Varney Air, NC 831M	96.59, A3	KHUEV	Penna. Air., NC 10871	177.72, 97.71, 62.72, 34.68	KHYBY	P. A. A., NC 400H	177.72, 97.71, 62.72, 34.68
KHPGX	Varney Air, NC 832M	96.59, A3	KHVEU	Ford Motor, NC 3141	177.72, 97.71, 62.72, 34.68	KHYCX	P. A. A., NC 402H	177.72, 97.71, 62.72, 34.68
KHPDW	Varney Air, NC 833M No. 25	96.59, 94.86, 94.58, 94.29, 53.83, 53.74, 52.98	KHVGH	N. W. Air., NC 303N	177.72, 97.71, 62.72, 34.68	KHYDW	P. A. A., NC 403H	177.72, 97.71, 62.72, 34.68
KHPEV	Varney Air, NC 10340	96.59, A3	KHVHS	Cont. Oil Co., NC 430H	177.72, 97.71, 62.72, 34.68	KHYEV	P. A. A., NC 6853	177.72, 97.71, 62.72, 34.68
KHPGT	Varney Air, NC 10344	96.59, A3	KHVJR	Nat. Pk. Air., NC 10356	177.72, 97.71, 62.72, 34.68	KHYFU	P. A. A., NC 7455	177.72, 97.71, 62.72, 34.68
KHPHS	Varney Air, NC 13049	96.59, A3	KHVJV	Nat. Pk. Air., NC 326N	177.72, 97.71, 62.72, 34.68	KHYGT	P. A. A., NC 8039	177.72, 97.71, 62.72, 34.68
KHPHR	Varney Air, NC 10350	96.59, 94.9, 94.75, 94.57, 94.30, 53.80, 53	KHVLP	Nat. Pk. Air., NC 330N	177.72, 97.71, 62.72, 34.68	KHYHS	P. A. A., NC 8416	177.72, 97.71, 62.72, 34.68
KHPJQ	Varney Air, NC 10357 No. 32	See KHPDW	KHVLM	Nat. Pk. Air., NC 6709	177.72, 97.71, 62.72, 34.68	KHYIR	P. A. A., NC 8417	177.72, 97.71, 62.72, 34.68
KHQAZ	U. A. L., NC 652E	96.59, 86.10, 53.57	KHVNM	Nat. Pk. Air., NC 7048	177.72, 97.71, 62.72, 34.68	KHYJQ	P. A. A., NC 9715	177.72, 97.71, 62.72, 34.68
KHQBY	U. A. L., NC 804E	96.59, 86.10, 53.57	KHVOL	N. W. Air., NC 7791 No. 21	177.72, 97.71, 62.72, 34.68	KHYLO	P. A. A., NC 9723	177.72, 97.71, 62.72, 34.68
KHQCX	U. A. L., NC 880E	96.59, 86.10, 53.57	KHVOP	N. W. Air., NC 537E No. 22	177.72, 97.71, 62.72, 34.68	KHYMN	P. A. A., NC 9424	177.72, 97.71, 62.72, 34.68
KHQDW	U. A. L., NC 881E	96.59, 86.10, 53.57	KHVQJ	N. W. Air., NC 134E No. 23	177.72, 97.71, 62.72, 34.68	KHYNM	P. A. A., NC 9798	177.72, 97.71, 62.72, 34.68
KHRAZ	Amer. Air, NC 9683	96.59, 86.10, 53.57	KHVRJ	N. W. Air., NC 854E No. 25	177.72, 97.71, 62.72, 34.68	KHZ	Geo. Research Corp., 5th Rdo. Zone	176.06
KHRYB	Amer. Air, NC 408H	96.59, 92.64, 86.10, 53.57, 53.29	KHVSJ	N. W. Air., NC 538H No. 27	177.72, 97.71, 62.72, 34.68	KIAL	Libbyville, Alaska	9422
KHRCX	Radio Marine Corp., NC 9779	119.7, 96.58, 74.33	KHVTG	N. W. Air., NC 7522 No. 28	177.72, 97.71, 62.72, 34.68	KIAM	Libbyville, Alaska	A1-2-3 84
KHRDW	Amer. Air, NC 11170	96.63, 53.26	KHVUF	N. W. Air., NC 8122 No. 47	177.72, 97.71, 62.72, 34.68	KIAO	Rose Inlet, Alaska	97.01
KHREV	Newspaper Calif., NC 11118	97.71, 97.5, 52.72	KHVVE	N. W. Air., NC 8410 No. 32	177.72, 97.71, 62.72, 34.68	KIAP	Rose Inlet, Alaska	97.01
KHRFU	E. A. T., NC 985V	96.59	KHVVD	N. W. Air., NC 8419 No. 33	177.72, 97.71, 62.72, 34.68	KIAQ	Rose Inlet, Alaska	119.42
KHRGT	Natnl. Park Air, NC 841M	96.63, 53.26	KHVXC	N. W. Air., NC 8794 No. 45	177.72, 97.71, 62.72, 34.68	KIAV	Port Althrop, Alaska	97.01
KHRSH	Amer. Air, NC 11167	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHYVB	N. W. Air., NC 9676 No. 34	177.72, 97.71, 62.72, 34.68	KIAW	Port Althrop, Alaska	97.01
KHRIR	Amer. Air, NC 9690	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHVZA	N. W. Air., NC 9933 No. 46	177.72, 97.71, 62.72, 34.68	KIB	Geo. Exp. Co., 3rd Rdo. Zone No. 37	176.06
KHRJQ	Amer. Air, NC 9682	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHW	Geo. Research Corp., 5th Rdo. Zone	176.06	KIBV	Port Althrop, Alaska	119.42
KHRLO	D. of C., NS 1	96.59, 94.9	KHWAZ	E. A. T., NC 626V	97.71, 97.5, 52.72	KIBW	Union Bay, Alaska	91.88
KHRMN	Amer. Air, NC 9687	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWBY	E. A. T., NC 727K	97.71, 97.5, 52.72	KIBX	Fishing Co., Union Bay, Alaska	129.3
KHRNM	Amer. Air, NC 9667	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWCX	E. A. T., NC 728K	97.71, 97.5, 52.72	KIBY	Packing Co., Waterfall, Alaska	91.88
KHROL	Amer. Air, NC 707Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWDF	E. A. T., NC 585N	97.71, 97.5, 52.72	KIBZ	Fishing Co., Waterfall, Alaska	129.3
KHRPQ	Amer. Air, NC 708Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWEV	E. A. T., NC 586N	97.71, 97.5, 52.72	KIC	Waterfall, Alaska	91.88
KHRQI	Amer. Air, NC 709Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWFU	E. A. T., NC 588N	97.71, 97.5, 52.72	KICB	Geo. Exp. Co., 3rd Rdo. Zone No. 37	176.06
KHRSI	Amer. Air, NC 710Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWGT	E. A. T., NC 589N	37.71, 97.5, 52.72	KICD	Nakat Packing, Hedden Inlet, Alaska	129.3
KHRSH	Amer. Air, NC 711Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWIR	E. A. T., NC 600V	97.71, 97.5, 52.72	KICE	Packing Co., Nakem, Alaska	129.3
KHRST	Amer. Air, NC 712Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWJQ	E. A. T., NC 601U	97.71, 97.5, 52.72	KICG	Fishing Co., Nakem, Alaska	91.88
KHRUF	Amer. Air, NC 713Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWKP	E. A. T., NC 602U	97.71, 97.5, 52.72	KICG	Fishing Co., Union Bay, Alaska	89.15
KHRVE	Amer. Air, NC 714Y	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWLW	E. A. T., NC 620V	102.67, 101.83, 100.47, 96.62, 53.07, 51.30	KICI	Libby, Honolulu, H. T.	105.12
KHRWD	D. of C., NS 1Y	96.59, 94.9, 50.47, 38.97	KHWMM	E. A. T., NC 621U	119.9	KICJ	Fishing Co., Mauna, Hawaii	105.12
KHRXC	D. of C., NS 2Y	96.59, 94.9, 50.47, 38.97	KHWNN	E. A. T., NC 622U	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICL	Elwen Mile, Canyon, Colo.	94
KHRYB	Amer. Air, NC 968V	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWOL	E. A. T., NC 628U	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICO	Chatham, Alaska	94
KHRZA	Amer. Air, NC 997V	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWPK	E. A. T., NC 629U	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICU	Chatham, Alaska	94
KHS	Geo. Research Corp., 5th Rdo. Zone	176.06	KHWQJ	E. A. T., NC 410H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICV	Steamboat Bay, Alaska	118.2
KHSCX	N. A. T., NA 7 No. 90	96.59, 94.9	KHX	Los Angeles, Calif.	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICW	Steamboat Bay, Alaska	94
KHSDV	N. A. T., NA 7 No. 91	96.59, 94.9	KHXAZ	Amer. Air., NC 9671	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICX	Denver, Colo.	94
KHSEV	N. A. T., NA 7 No. 92	96.59, 94.9	KHXBY	Amer. Air., NC 8485	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KICZ	Mutual Tel. Co., Honolulu, Hawaii	93.89, 93.02, 52.45, 52.17
KHSFU	N. A. T., NA 7 No. 84	96.59, 94.9	KHXCX	Amer. Air., NC 415H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDA	Fire Dept., Seattle, Wash.	192.53
KHSGT	N. A. T., NA 7 No. 92	96.59, 94.9	KHXDW	Amer. Air., NC 412H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDB	Kassan, Alaska	97.01
KHSIR	N. A. T., NC 422H	96.59, 94.9	KHXEV	Amer. Air., NC 732N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDD	D. of Interior, California	97.01
KHSJQ	N. A. T., NA 7 No. 76	96.59, 94.9	KHXFU	Amer. Air., NC 733H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDE	Nakat Packing, Hedden, La.	91.88
KHSPK	N. A. T., NA 7 No. 77	96.59, 94.9	KHXGJ	Amer. Air., NC 734H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDG	Alaska Packing, Chomly, Alaska	119.41
KHSLO	N. A. T., NA 7 No. 74	96.59, 94.9	KHXHS	Amer. Air., NC 735H	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDH	Alaska Packing, Chomly, Alaska	97.01
KHSMN	N. A. T., NC 426H	96.59, 94.9	KHXIR	Amer. Air., NC 736N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDI	Alaska Packing, Chomly, Alaska	97.01
KHSOL	N. A. T., NA 7 No. 88	96.59, 94.9	KHXJQ	Amer. Air., NC 737N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDJ	Cape Chacon, Alaska	119.42
KHSPK	N. A. T., NA 7 No. 89	96.59, 94.9	KHXKJ	Amer. Air., NC 737N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDK	Cape Chacon, Alaska	97.01
KHSQJ	N. A. T., NA 7 No. 86	96.59, 94.9	KHXKP	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDL	Cape Chacon, Alaska	97.01
KHSRI	N. A. T., NA 7 No. 87	96.59, 94.9	KHXKQ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDM	Warner Bros., various states	196.59
KHSSH	N. A. T., NC 11Y NA 7	103.24, 96.59, 97.64, 94.9, 96.62, 94.75, 97.32, 94.57, 97.15, 94.39, 62.89, 53.88, 62.71, 53	KHXKX	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDN	Warner Bros., various states	196.59
KHSTG	N. A. T., NC 436H	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHXKZ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDP	Warner Bros., various states	196.59
KHSUF	N. A. T., NC 9157 No. 113	See KHPDW	KHXAZ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDS	Warner Bros., various states	196.59
KHSVE	N. A. T., NC 10355	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHXBY	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDT	Barralton, Ford Motor Co.	122.65
KHSWD	N. A. T., NC 10351	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHXCX	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDV	Bristol Bay, Alaska	94
KHSXC	N. A. T., NC 10352	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHXDW	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDY	Packing Co., Big Port, Alaska	94
KHSYB	N. A. T., NC 434H	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHXEV	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIEA	Packing Co., Big Port, Alaska	119.42
KHTAZ	Alaskan Air., NC 153H	94.23, 53.37	KHXFU	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIEC	Port Alexander, Alaska	118.2
KHTBY	Alaskan Air., NC 154H	94.23, 53.57	KHXGJ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIF	Davar, P. I.	47.0
KHTCX	Alaskan Air., NC 174H	94.22, 53.57	KHXHS	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIFQ	Great Towing Favorite	54.3, 53.42, 38.01
KHTHS	Amer. Air., NC 10804	96.62, 93.09, 82.8, 92.52, 92.09, 87.02, 86.52, 61.08, 61, 53.55	KHXIR	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIFN	Humrick, Ford Motor Co.	122.65
KHTIR	Amer. Air., NC 10810	See KHTHS	KHXJQ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIQG	Santa Elisa	122.65
KHTJQ	Amer. Air., NC 10818	See KHTHS	KHXKJ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIGR	Export S. S. Co., Exchange	176.06
KHTKP	Amer. Air., NC 10840	See KHTHS	KHXKQ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIJ	Geo. Exp. Co., 3rd Rdo. Zone No. 36	176.06
KHTLO	Amer. Air., NC 10846	See KHTHS	KHXKX	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIJT	Buttercup, Ford Motor Co.	122.65
KHTMN	Amer. Air., NC 10891	See KHTHS	KHXKZ	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KINB	Ogont	

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KJG	Texas Co., La., Miss. & Tex. No. 12	176.06	KNC	Texas Co., La., Miss. & Tex., No. 15	176.06	KQG	R. C. A., Bolinas, Calif.	16.667
KJI	Bristol Bay, Alaska	129.3	KND	Texas Co., La., Miss. & Tex., No. 16	176.06	KQH	R. C. A., Kahuku, T. H.	18.77
KJN	Geo. Exp. Co., La., Miss. & Tex., No. 2	176.06	KNE	Texas Co., La., Miss. & Tex., No. 18	176.06	KQJ	R. C. A., Bolinas, Calif.	16.61
KJO	Geo. Exp. Co., La., Miss. & Tex., No. 1	176.06	KNF	Texas Co., La., Miss. & Tex., No. 19	176.06	KQK	D. of C., Oklahoma City, Okla.	89.6, 89, 50.51, 50.46, 50.34, 129.3
KJT	Geo. Exp. Co., La., Miss. & Tex., No. 3	176.06	KNF	Portable, Calif.	51.69	KQL	Hidden Inlet, Alaska	129.3
KJTR	Manila, P. I.	24.4	KNG	Wilmington, Calif.	114.9	KQM	Aero Radio, Inc., Des Moines, Iowa	94.9, 94.75, 94.57, 94.39, 53.86, 53
KJW	Geo. Exp. Co., La., Miss. & Tex., No. 4	176.06	KNI	M. R. T., Palo Alto, Calif.	43.64, 44.02, 39.19, 39.14, 21.49, 20.44, 20.39, 20.37, 20.35, 17.5, 15.97, 15.31, 15.25	KQP	Minneapolis, Minn.	97.7, 46.05
KJXR	Manila, P. I.	24.4	KNL	Geo. Exp. Co., 3rd Radio Zone, No. 21	176.06	KQQ	Aero Radio, Inc., Iowa City, Iowa	94.9, 94.75, 94.57, 94.39, 53.86, 53
KJY	Geo. Exp. Co., La., Miss. & Tex., No. 5	176.06	KNM	Geo. Exp. Co., 3rd Radio Zone, No. 20	176.06	KQR	R. C. A., Bolinas, Calif.	16.630
KJZ	Cont. Oil, La., Miss. & Tex., No. 1	178.08	KNN	M. R. T., Honolulu, T. H.	43.64, 39.14, 20.35, 20.33, 17.5, 15.30, 15.29	KQS	Lone Pine, Calif.	94
KKB	Globe Wireless, Sherwood, Calif.	96.61, 96.15, 72.89, 54.35, 48.31, 46.8, 36.23, 34.52, 27.17, 26.56, 24.15, 24.01, 18.116, 17.921, 13.652, 13.587	KNO	Libby Fishing, Nushagak, Alaska	94.22	KQT	Market Service, Los Angeles, Calif.	94
KKC	Fed. T. & T., Palo Alto, Calif.	176.06	KNQ	Geo. Exp. Co., 3rd Radio Zone, No. 19	176.06	KQX	Aero Radio, Inc., Bakersfield, Calif.	94.571, 53
KKD	Geo. Exp. Co., 3rd Rdo. Zone No. 35	176.06	KNR	M. R. T., Clearwater, Calif.	96.61, 96.15, 68.17, 68.1, 68.03, 67.95, 54.35, 50.21, 44.02, 39.14, 36.23, 35.84, 27.17, 20.33, 20.31, 18.116, 17.857, 13.746, 13.587	KQZ	R. C. A., Bolinas, Calif.	16.68
KKF	Geo. Exp. Co., 3rd Rdo. Zone No. 34	176.06	KNS	Geo. Exp. Co., 3rd Radio Zone, No. 18	176.06	KRA	Aero Radio Corp., Boise, Idaho	94.9, 94.75, 94.57, 94.39, 53.86, 53
KKH	R. C. A., Honolulu, Hawaii	40.45, 39.89	KNT	Geo. Exp. Co., 3rd Radio Zone, No. 17	176.06	KRB	State Agric., Salinas, Calif.	92.3, 70.67, 55.92, 39.34, 39.27
KKJ	Port Worth, Texas	100.9, 89, 89.6, 50.51, 50.34	KNU	Geo. Exp. Co., 3rd Radio Zone, No. 16	176.06	KRC	D. of C., Parkville, Mo.	89.6, 89, 50.51, 50.34
KKL	R. C. A., Bolinas, Calif.	19.386	KNV	D. of C., Burley, Idaho	89.6, 89, 50.51, 50.35, 43.64, 17.91, 15.34, 44.02, 39.19, 39.14, 21.49, 20.39, 20.37, 20.35, 17.5, 15.31, 14.03	KRD	Aero Radio, Inc., Pasco, Wash.	94.9, 94.75, 94.39, 53.86, 53, 94.57
KKO	Aero Radio, Inc., Elko, Nev.	119.7, 99.7, 91.2, 71.6, 53.7, 50.08	KNW	M. R. T. Co., Palo Alto, Calif.	44.02, 39.19, 39.14, 21.49, 20.39, 20.37, 20.35, 17.5, 15.31, 14.03	KRF	Aero Radio, Inc., Lincoln, Neb.	94.9, 94.75, 94.67, 94.39, 53.86, 53
KKP	R. C. A., Kohuku, Hawaii	21.89, 18.71	KNWA	Aero Radio Corp., Minneapolis, Minn.	119.94, 99.86, 55.81	KRG	State Dept., San Francisco, Calif.	92.3, 70.67, 55.92, 50.46, 34.05, 26.97
KKQ	R. C. A., Bolinas, Calif.	25.10	KNWB	Aero Radio Co., Fargo, N. D.	111.94, 99.89, 55.18	KRJ	State Dept., Sacramento, Calif.	92.3, 70.67, 55.92, 34.05, 29.97
KKR	R. C. A., Bolinas, Calif.	19.40	KNWC	Aero Radio Corp., Pembina, N. D.	119.94, 99.86, 55.81	KRK	M. R. T. Co., Palo Alto, Calif.	176.06
KKU	Geo. Exp. Co., 3rd Rdo. Zone No. 33	176.06	KNWD	Aero Radio, Inc., Bismarck, N. D.	112.44, 112.27, 106.11, 99.83, 55.79	KRM	State Dept., Los Angeles, Calif.	92.3, 70.67, 55.92, 34.05, 29.97
KKV	Geo. Exp. Co., 3rd Rdo. Zone No. 32	176.06	KNY	Geo. Exp. Co., 3rd Radio Zone, No. 12	176.06	KRO	R. C. A., Honolulu, T. H.	51.33
KKW	R. C. A., Bolinas, Calif.	19.42	KNZ	Geo. Exp. Co., 3rd Radio Zone, No. 11	176.06	KRP	Salt Lake City, Utah	49.5
KKX	Geo. Exp. Co., 3rd Rdo. Zone No. 31	176.06	KOC	D. of C., Sacramento, Calif.	89.8, 89, 50.63, 50.51	KRR	Geo. Exp. Co., La. & Texas	176.06
KKY	Geo. Exp. Co., 3rd Rdo. Zone No. 30	176.06	KOD	Geo. Exp. Co., 3rd Radio Zone, No. 10	176.06	KSA	Globe Wireless, Edmonds, Wash.	54.3, 46.05, 34.76, 27.15, 18.09, 17.76, 96.61, 95.15, 72.89, 54.35, 48.31, 46.8, 34.52, 31.23, 27.17, 26.56, 24.15, 24.01, 18.116, 17.921, 13.652, 13.578
KKZ	R. C. A., Bolinas, Calif.	21.91	KODZ	U. S. S. B., Bangu, Aero Radio, Inc.	120.87, 119.71, 94.9, 94.75, 94.57, 72.74, 53.86, 53, 48.27, 48.15	KSB	Geo. Exp. Co., 3rd Radio Zone, No. 29	176.06
KLA	Humble Oil, Texas & La., No. 12	176.06	KOE	Cheyenne, Wyo.	120.87, 119.71, 94.9, 94.75, 94.57, 72.74, 53.86, 53, 48.27, 48.15	KSE	R. C. A., Torrance, Calif.	96.61, 96.15, 54.35, 54.05, 36.23, 35.83, 27.17, 26.81, 24.15, 22.94, 18.116, 13.587, 13.468
KLC	Shell Co., Calif., Humble Oil, Tex. & La., No. 11	176.06	KOF	Geo. Exp. Co., 3rd Radio Zone, No. 5	176.06	KSF	Ponca City, Okla.	187.27, 184.28, 178.99, 176.47
KLE	Humble Oil, Tex. & La., No. 9	176.06	KOG	Tel. Co., Honolulu, T. H.	74.9, 71.2, 67.34, 51.37, 18.09, 17.75	KSG	D. of C., Cheyenne, Wyo.	89.2, 89, 73.71, 50.52, 50.51
KLH	P. T. & T. Co., San Francisco, Calif.	118.01	KOK	Clearwater, Calif.	17.75	KSI	Aero Radio, Inc., Los Angeles, Calif.	110.3, 109.8, 103.23, 97.63, 97.32, 97.15, 72.99, 54.45, 52.88, 52.7, 46.08, 46.01, 45.96
KLI	Humble Oil, Tex. & La., No. 8	176.06	KOL	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSM	Globe Wireless, Los Angeles, Calif.	96.61, 96.15, 72.89, 54.35, 48.31, 46.8, 36.23, 34.52, 27.17, 26.56, 24.15, 24.1, 18.116, 18.09, 17.921
KLK	D. of C., Reno, Nevada	89.88, 50.68, 50.51, 50.36	KOJ	D. of C., Elko, Nev.	89, 88.9, 50.51, 50.39	KSQ	D. of C., Pleasant Valley, Nev.	89.1, 89, 50.68, 50.51, 50.46
KLL	R. C. A., Bolinas, Calif.	21.85	KOJR	Chickasaw	Various	KSR	Fishing Co., Tyee, Alaska	123.56
KLN	Mutual Tel., Hilo, T. H.	52.45, 72.39	KOKL	M. R. T., Clearwater, Calif.	129.3	KSS	R. C. A., Bolinas, Calif.	14.40
KLT	Humble Oil, Tex. & La., No. 10	176.06	KOM	Herman F. Whinton, Union Bay, Alaska	129.3	KST	Aero Radio, Inc., Kansas City, Mo.	110.21, 109.72, 97.71, 97.53, 97.33, 72.02, 54.44, 54.15, 47.24, 47.13, 37.43
KLU	Flagstaff, Ariz.	147	KOP	Press Wireless, San Francisco, Calif.	63.24, 19.18, 19.07, 18.86	KSV	Aero Radio, Inc., Amarillo, Tex.	110.3, 109.8, 103.23, 97.63, 97.32, 87.15, 72.99, 54.15, 52.58, 52.7, 46.08, 46.01, 45.94
KLV	Flagstaff, Calif.	147	KOS	Press Wireless, Los Angeles, Calif.	19.22, 19.15, 19.04, 18.89, 18.85	KSW	Police, Berkeley, Calif.	124.17
KLW	Port Althorp, Alaska	176.06	KOT	Geo. Exp. Co., 3rd Radio Zone Sou. Cal. Tel. Co., Wilmington, Calif.	115.83	KSX	Aero Radio, Inc., Albuquerque, N. M.	46.08, 46.01, 45.94, 110.3, 109.8, 103.23, 97.63, 97.32, 97.15, 72.99, 54.45, 52.88, 52.7
KLY	Humble Oil, Tex. & La., No. 7	176.06	KOU	P. T. & T. Co., Edmonds, Wash.	118.57	KSY	Aero Radio, Inc., Tulsa, Okla.	97.7, 97.52, 97.33, 97.15, 86.7, 54.45, 54.15, 47.24, 37.43, 24.03
KMD	Humble Oil, Tex. & La., No. 6	176.06	KOW	Harbor Dept., Seattle, Wash.	96.61, 96.15, 54.35, 48.31, 47.02, 36.23, 34.72, 27.17, 26.53, 18.116, 17.73	KSZ	McCarney, Texas	59.11, 59.0, 51.9, 48.05
KME	D. of C., Strerell, Idaho	89.6, 89, 50.51, 50.35	KPE	Press Wireless, Los Angeles, Cal.	43.35, 39.35, 19.22, 19.18, 19.15, 19.11, 19.07, 19.04, 18.92, 18.86	KTK	Globe Wireless, Musselrich, Calif.	96.61, 96.15, 72.89, 54.35, 48.31, 46.88, 36.23, 34.56, 27.17, 26.6, 24.15, 24.01, 18.116, 17.921, 13.877, 13.587
KMF	Egegik, Alaska	84.22	KPG	R. C. A., Bolinas, Calif.	54.3, 46.58, 33.59, 27.15, 23.96, 23.90, 18.10, 18.09, 13.67, 13.64	KTO	R. C. A., Manila, P. I.	27.5, 18.47
KMI	Humble Oil, Tex. & La., No. 5	176.06	KPH	Aero Radio, Inc., Dallas, Texas	94.75, 94.57, 94.39, 53.89, 53	KTP	R. C. A., Manila, P. I.	37.59, 36.95
KML	Libby Fishing, Lockanok, Alaska	94.22	KPI	Aero Radio, Inc., Omaha, Neb.	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 72.74, 53.86, 53, 48.27	KTR	R. C. A., Manila, P. I.	27.5
KMM	R. C. A., Bolinas, Calif.	14.43	KPM	Aero Radio, Inc., North Platte, Neb.	94.9, 94.75, 94.57, 94.39, 53.89, 53			
KMN	San Francisco, Calif.	51.69	KQC	Humble Oil, W. A. E., Bandini, Calif.	176.06			
KMP	Aero Radio, Inc.	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 72.74, 53.86, 53, 48.27	KQD	Humble Oil, Tex. & La., No. 3	176.06			
KMR	Aero Radio, Inc., North Platte, Neb.	94.9, 94.75, 94.57, 94.39, 53.89, 53		Humble Oil, Tex. & La., No. 2	176.06			
KMS	Humble Oil, Tex. & La., No. 4	176.06		Humble Oil, Tex. & La., No. 1	176.06			
KMV	W. A. E., Bandini, Calif.	49.5		M. R. T. Co., Palo Alto, Calif.	68.24, 68.14, 50.20, 50.147			
KMX	Humble Oil, Tex. & La., No. 3	176.06		Aero Radio, Inc., Kansas City, Mo.	94.9, 94.79, 94.57, 94.30, 53.86, 53			
KMY	Humble Oil, Tex. & La., No. 2	176.06		Aero Radio, Inc., Dallas, Texas	94.75, 94.57, 94.39, 53.89, 53			
KMZ	Humble Oil, Tex. & La., No. 1	176.06		Aero Radio, Inc., Tulsa, Okla.	94.9, 94.75, 94.57, 94.39, 53.86, 53			
KNA	M. R. T. Co., Palo Alto, Calif.	68.24, 68.14, 50.20, 50.147		Aero Radio, Inc., Oklahoma City, Okla.	A1-2-3, 94.9, 94.75, 94.57, 94.39, 53.86, 53			
KNAS	Aero Radio, Inc., Kansas City, Mo.	94.9, 94.79, 94.57, 94.30, 53.86, 53		Texas Co., La., Miss. & Tex., No. 5	176.06			
KNAT	Aero Radio, Inc., Dallas, Texas	94.75, 94.57, 94.39, 53.89, 53						
KNAU	Aero Radio, Inc., Tulsa, Okla.	94.9, 94.75, 94.57, 94.39, 53.86, 53						
KNAV	Aero Radio, Inc., Oklahoma City, Okla.	A1-2-3, 94.9, 94.75, 94.57, 94.39, 53.86, 53						
KNB	Texas Co., La., Miss. & Tex., No. 5	176.06						

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KTS	Govt., Toling, P. I.	42.8	KZGM	Govt., Manila, P. I.	50.98, 44.61	NAT	U. S. N., New Orleans, Fla.	74.42, 74.17, 67.64, 33.82
KTT	Drier Bay, Alaska	86.55	KZGN	Cebu, P. I.	47	NATB	U. S. S., Antares	
KTU	Aero Radio, Inc., Redding, Calif.	94.9, 94.75, 94.57, 94.39, 53	KZGP	Manila, P. I.	62.83, 54.69, 44	NAU	U. S. N., San Juan, P. R.	73.62, 67.64
KTY	M. R. T., Manila, P. I.	53.72, 53.68, 50.21, 35.89, 26.84, 18.51, 17.89, 17.04	KZGR	Philippine Islands	64.3	NAV	U. S. M. C., Paris Is., S. C.	
KTZ	Naknek, Alaska	39.45	KZDB	Apo	54, 53, 36	NAVD	U. S. S., Wilmette	
KUFN	Steel Voyager	39.45	KZDD	Govt., Davao, P. I.	32.5	NAVX	U. S. S., Idaho	
KUG	Govt., Dast, P. I.	50.885	KZDV	Govt., Davao, P. I.	59.23, 59.02, 51.11, 43.6	NAW	U. S. N., Guantanamo, Cuba	33.82
KUH	Manila, P. I.	54.01, 44, 27.0, 18.0	KZED	R. C. A., Manila, P. I.	27.5	NAY	U. S. N., Brownsville, Tex.	
KUI	Govt., Balanga, P. I.	60.55	KZEF	Atlantic Gulf	36	NBA	U. S. N., Balboa, C. Zone	33.82, 9.202
KUKV	States, S. S. Co., California	54.3, 35.5, 27.15, 26.71, 18.09, 18.007, 16.61	KZEN	R. C. A., Manila, P. I.	15	NBB	U. S. N., Virgin Islands	
KUN	R. C. A., Bolinas, Calif.	16.61	KZFB	Goodyear Co., Kabasalar, P. I.	63.35	NBC	U. S. N., Caco Isla., C. Zone	
KUP	Newspaper, San Francisco, Calif.	53.71, 45.94, 39.45, 28.85, 18.23, 46.58, 35.93, 26.46, 17.964, 13.498	KZFC	Lumber Co., Ft. Lamon, P. I.	62.825	NBD	U. S. N., Bar Harbor, Maine	
KUS	Manila, P. I.	16.48	KZFD	Lumber Co., Lumarao, P. I.	170	NBE	U. S. N., Thatcher Is., Mass.	
KUU	Steamboat Bay, Alaska	90.8	KZFE	Lumber Co., Manila, P. I.	63.76, 60.06	NBJ	U. S. N., Oakland, Calif.	
KUV	Manila, P. I.	24.43	KZFF	Hilo, P. I.	61.80	NBO	U. S. N., St. Louis, Mo.	
KUW	Manila, P. I.	32.93	KZFG	Insular Govt., Milbuk, P. I.	63.35	NBP	U. S. N., New York, N. Y.	
KUX	Cavagan, P. I.	58.09	KZFH	Manila, P. I.	62.17	NBQ	U. S. N., Miami, Fla.	
KUZ	Dollar S. S. Co., Manila, P. I.	65.01, 53.97, 26.98, 17.99	KZFI	Sipao, P. I.	62.17	NBU	U. S. N., Great Lakes, Ill.	
KVB	D. of C., Pacific Coast	Var.	KZFM	Manila, P. I.	61.42	NCG	U. S. N., Minneapolis, Minn.	
KVD	D. of C., Pacific Coast	Var.	KZFN	Manila, P. I.	61.42	NCQ	U. S. N., San Juan, P. R.	67.64, 33.82
KVE	D. of C., Pacific Coast	Var.	KZFO	Cebu, P. I.	61.42	NDA	U.S.N.R., Tufts College, Mass.	74.17, 40.45, 37.08
KVH	D. of C., Pacific Coast	Var.	KZFP	Davao, P. I.	61.42	NDB	U.S.N.R., New York, N. Y.	74.17, 40.45, 37.08
KVI	Kings Mill, Texas	Var.	KZFS	Davao, P. I.	61.42	NDC	U.S.N.R., Pittsburgh, Pa.	71.17, 40.45, 37.08
KVJ	D. of C., Pacific Coast	Var.	KZFT	Manila R. R. Co., Naga, P. I.	63.38	NDD	U.S.N.R., Pensacola, Fla.	74.17, 40.45, 37.08
KVK	D. of C., Pacific Coast	Var.	KZFU	Sumagui, P. I.	51.79	NDE	U.S.N.R., Norfolk, Va.	74.17, 40.45, 37.08
KVM	D. of C., North Platte, Neb.	89, 88.63, 88.1, 50.56, 50.51	KZFW	Sumagui, P. I.	62.18	NDF	U.S.N.R., Norfolk, Va.	74.17, 40.45, 37.08
KVO	Amer. Radio, Inc., Portland, Ore.	94.9, 94.75, 94.57, 94.39, 53.86, 53	KZFY	Manila Electric Co., Manila, P. I.	75.3	NDG	So. Manchester, Conn.	74.17, 40.45, 37.08
KVP	Police, Dallas, Texas	175.23	KZG	Botocan, P. I.	75.7	NDH	U.S.N.R., Balboa, C. Z.	74.17, 40.45, 37.08
KVR	W. A. E., Las Vegas, Neb.	40.48	KZGF	Radio Telephone Comm., Manila, P. I.	109.8, 52, 32.7	NDJ	U.S.N.R., San Francisco, Calif.	74.17, 40.45, 37.08
KVT	Los Angeles, Calif.	147.6	KZGG	Radiophone Long Dist., Cebu, P. I.	106, 51.5, 33.6	NDK	U.S.N.R., Atlanta, Ga.	74.17, 40.45, 37.08
KVU	San Diego, Calif.	144.8	KZGH	Radio Telephone Co., Hilo, P. I.	108.7, 51.77, 40.05	NDL	U.S.N.R., Baltimore, Md.	74.17, 40.45, 37.08
KVUA	Lake Ormoc, Ford Motor Co.	54.3, 54, 36.01, 27.15, 27, 18.09, 18.07	KZGI	R. C. P. I., Manila, P. I.	55.2, 55, 37.59, 31.72	NDM	U.S.N.R., Orlando, Fla.	74.17, 40.45, 37.08
KVV	Libby Fishing, Koguing, Alaska	94.22	KZGJ	R. C. P. I., Cebu, P. I.	50, 33.59, 33.53	NDN	U.S.N.R., Philadelphia, Pa.	74.17, 40.45, 37.08
KVW	Light Dept., Seattle, Wash.	Var.	KZGK	R. C. P. I., Hilo, P. I.	40.5	NDO	U.S.N.R., Washington, D. C.	74.17, 40.45, 37.08
KWA	M. R. T. Co., Palo Alto, Calif.	39.15	KZGL	R. C. P. I., Zamboanga, P. I.	57.4, 33.52, 31.84	NDP	U.S.N.R., Oakland, Calif.	74.17, 40.45, 37.08
KWB	M. R. T. Co., Palo Alto, Calif.	38.75	KZGM	R. C. P. I., Davao, P. I.	56.5, 31.7	NDS	U.S.N.R., Kansas City, Mo.	74.17, 40.45, 37.08
KWC	M. R. T. Co., Palo Alto, Calif.	33.9	KZGN	R. C. P. I., Cagayan, P. I.	40.54	NDT	U.S.N.R., Seattle, Wash.	74.17, 40.45, 37.08
KWD	M. R. T. Co., Palo Alto, Calif.	33.7	KZGO	R. C. P. I., Legaski, P. I.	56.66, 43.35	NDU	U.S.N.R., Winnetka, Ill.	74.17, 40.45, 37.08
KWE	R. C. A., Bolinas, Calif.	19.44	KZGP	R. C. P. I., Cagayan, P. I.	57.90, 40.54	NDV	U.S.N.R., San Diego, Calif.	74.17, 40.45, 37.08
KWF	M. R. T. Co., Palo Alto, Calif.	27.73	KZGQ	Portable, Los Angeles, Calif.	146.3	NDW	U.S.N.R., Jacksonville, Fla.	74.17, 40.45, 37.08
KWI	M. R. T. Co., Palo Alto, Calif.	27.55	KZI	Govt., Hilo, P. I.	56.34	NDX	U.S.N.R., Los Angeles, Calif.	74.17, 40.45, 37.08
KWJ	M. R. T. Co., Palo Alto, Calif.	23.08	KZIL	Govt., Hilo, P. I.	63.76	NDZ	U.S.N.R., Baltimore, Md.	74.17, 40.45, 37.08
KWK	R. C. A., Bolinas, Calif.	20.35	KZIM	Aero Radio, Inc., Seattle, Wash.	94.9, 94.75, 94.57, 94.39, 55.1, 53.86, 53	NEB	U.S.N.R., New Orleans, La.	74.17, 40.45, 37.08
KWM	M. R. T. Co., Palo Alto, Calif.	14.245	KZJ	Govt., Sago, P. I.	62.96	NEC	Airport, Panama Rep.	54.15, 32
KWN	A. T. & T., Dixon, Calif.	44.41, 32.72, 30.40, 20.56, 19.53, 19.46, 15.136, 14.245	KZLG	Govt., Lucena, P. I.	60.535, 51.61, 50.34	NEC	U. S. N., Santurce, P. R.	74.17
KWO	A. T. & T., Sacramento, Calif.	44.41, 32.72, 30.40, 20.56, 19.53, 19.46, 15.136, 14.245	KZLN	Govt., Manila, P. I.	60.79, 51.11	NEC	U. S. N., Colorado	
KWP	M. R. T. Co., Palo Alto, Calif.	16.968	KZLM	Govt., Manila, P. I.	38.59	NEDJ	U. S. S., West Virginia	
KWQ	M. R. T. Co., Palo Alto, Calif.	16.429	KZMM	Govt., Manila, P. I.	31.15	NEF	U. S. S., Charlotte, N. C.	
KWR	Port Muller, Alaska	51.02	KZMN	Govt., Manila, P. I.	42.89	NEFX	U. S. S., Northampton	
KWS	M. R. T. Co., Palo Alto, Calif.	14.032	KZMP	Manila, P. I.	52.5	NEJ	U. S. S., Ensenada, P. R.	37.08
KWT	M. R. T. Co., Palo Alto, Calif.	68.24, 68.1, 68.03, 67.95, 50.21, 17.5, 16.98	KZMR	Manila, P. I.	52.45	NEJX	U. S. S., Melville	
KWV	Pacific Air T., Bakersfield, Calif.	129.3, 94.75	KZN	Waterfall, Alaska, P. I.	49.15, 107.1	NEKN	U. S. S., Falcon	
KXB	Inglewood, Calif.	129.3, 94.75	KZNG	Tolong, P. I.	63.76	NEKT	U. S. S., Mississippi	
KXC	Alaska Fishing, Funter, Alaska	129.3, 94.75	KZNR	Manila, P. I.	48.86, 31.35, 25.36	NEL	U. S. S., Lakehurst, N. J.	86.32
KXW	Ikatare, Alaska	94.9	KZRR	Govt., Aparri, P. I.	43.5	NELB	U. S. S., Saratoga	
KYB	Honolulu, Hawaii	94.9	KZRY	Govt., Aparri, P. I.	62.95, 56.88	NEMC	U. S. S., Medusa	
KYG	Globe Wireless, Honolulu, Hawaii	96.61, 96.15, 72.81, 54.35, 48.31, 46.88, 36.23, 34.76, 34.56, 27.17, 26.6, 24.15, 24.01, 18.116, 18.09, 17.921, 13.587, 13.393	KZSP	Govt., Legaski, P. I.	54.31, 50.34	NEMG	U. S. S., Schenk	
KYI	Kings Mills, Texas	59.11, 58.99, 51.9, 51.76, 51.63	KZSR	Govt., Surigao, P. I.	62.825	NEMJ	U. S. S., Herbert	
KYK	Karluk, Alaska	123.55, 94.39	KZTB	Govt., Taoloban, P. I.	58.09	NEND	U. S. S., Bache	
KYM	Koichak, Alaska	86	KZTC	Govt., Leyte, P. I.	43.17	NEP	U. S. S., Dallas	
KYU	Wichita Falls, Texas	59.11, 51.9, 51.64, 45.02	KZTG	Govt., Samai, P. I.	59.94	NEPQ	U. S. S., Relief	
KYY	Los Angeles, Calif.	146.3	KZTL	Tolong, P. I.	42.8	NEPX	U. S. S., Babbitt	
KYZ	Libby Fishing, Kenai, Alaska	94.22	KZV	Nushagak, Alaska	86	NEQB	U. S. S., Jason	
KZ	Inglewood, Calif.	146.3	KZVB	Govt., Zamboanga, P. I.	32.15	NEQC	U. S. S., Langley	
KZAB	Manila R. R., Samaar, P. I.	53.42	KZVG	Govt., Zamboanga, P. I.	48.54, 43.73	NESC	U. S. S., Padueah	
KZAC	Manila R. R., Bicol, P. I.	53.43	KZVH	Govt., Zamboanga, P. I.	63.36, 57.09, 50.55	NETC	U. S. S., Pittsburgh	
KZAM	Manila R. R., Noga, P. I.	53.42	KZVI	Arlington, Va.	74.72, 71.34, 67.64, 35.65, 33.82, 23.78, 22.54, 18.67, 17.8	NEVF	U. S. N., Vaga	
KZAP	Mayon, P. I.	70.5, 36.01, 35.95, 27	KZVJ	U. S. N., Eastport, Me.		NEVJ	U. S. N., Sacramento	
KZAR	Mindow	36	KZVK	U. S. S., Indianapolis		NEVN	U. S. S., New Mexico	
KZAV	Venus	36	KZVL	U. S. S., Ranger		NFB	U. S. N., Detroit, Mich.	
KZAW	Kanban	54.3, 54, 36.01, 27.15, 18.094, 18.007	KZVM	U. S. S., New Orleans, La.		NFD	U. S. N., Balboa, C. Z.	
KZAY	Florence D.	62.18	KZVN	U. S. S., Portsmouth, N. H.		NFH	U. S. N., Quantico, Va.	86.32
KZB	Los Angeles, Calif.	44.03	KZVO	U. S. S., Portland		NHC	Darien, Canal Zone	53.57
KZBD	A. G. & P., Salvager	54, 53.71, 53.42, 53.14	KZVP	U. S. S., Astoria		NHP	U. S. N., Honolulu, Hawaii	74.17, 18.54
KZBH	Bustamente	54.3, 53.05, 36	KZVQ	U. S. S., Minneapolis		NIC	U. S. N., Honolulu, Hawaii	
KZBL	Manila R. R., Alabat	53.42	KZVR	U. S. S., Arkansas		NID	U. S. N., Akron, Ohio	
KZBR	Trabajador	35.97, 26.79	KZVS	U. S. S., Arizona		NIDF	U. S. S., Augusta	
KZBT	Butuan, Alaska	42.9	KZVT	U. S. S., Boston, Mass.	74.17	NIDN	U. S. S., Tennessee	
KZCB	Govt., Cebu, P. I.	54.59	KZVU	U. S. S., Nevada		NIFT	U. S. S., Louisville	24
KZCC	Govt., Cebu, P. I.	43.17	KZVW	U. S. S., Oklahoma		NIJ	U. S. S., Bobolink	
KZCD	Govt., Cebu, P. I.	40.62	KZVX	U. S. S., Texas		NIJQ	U. S. S., Utah	
KZCF	Govt., Cebu, P. I.	62.825, 54.79	KZVY	U. S. S., Pennsylvania		NIJX	U. S. S., Gannet	
KZCG	Cagayan, P. I.	58.54	KZVZ	U. S. N., Newport, R. I.		NIKD	U. S. S., Rochester	
KZCK	Davao, P. I.	62.83, 54.79, 50	KZWA	U. S. N., Dickerson		NIKM	U. S. S., Lexington	
				KZWB	U. S. S., Leary	NIQN	U. S. S., Houston	
				KZWC	U. S. S., Chester	NIQL	U. S. S., Utah	
				KZWD	U. S. N., Squantum, Mass.	NIRN	U. S. S., S. C.	
				KZWE	U. S. S., Chicago	NIRR	U. S. S., Wright	
				KZWF	U. S. N., New York, N. Y.	NIRS	U. S. S., Marblehead	
				KZWG	U. S. N., Philadelphia, Pa.	NIRT	U. S. S., Wilmington	
				KZWH	U. S. N., Annapolis, Md.	NIRV	U. S. S., Raleigh	
				KZWI	U. S. S., Dubuque	NIRX	U. S. S., Concord	
				KZWJ	U. S. N., Washington, D. C.	NISJ	U. S. S., Canopus	
				KZWK	U. S. N., Norfolk, Va.	NISK	U. S. S., Pensacola	
				KZWL	U. S. N., Cape Lookout, N. C.	NISL	U. S. S., Salt Lake City	
				KZWM	U. S. N., Charleston, S. C.	NISM	U. S. S., Omaha	
				KZWN	U. S. S., Seattle	NISN	U. S. S., Milwaukee	
				KZWO	U. S. S., Hawk	NISP	U. S. S., Cincinnati	
				KZWP	U. S. N., Jupiter, Fla.	NISQ	U. S. S., Detroit	
				KZWQ	U. S. N., Key West, Fla.	NISR	U. S. S., Richmond	
				KZWR	U. S. S., Maryland	NISS	U. S. S., Trenton	
				KZWS	U. S. N., Pensacola, Fla.	NISX	U. S. S., Memphis	
				KZWT		NITR	U. S. S., Argonne	
				KZWX		NKF	U. S. S., Wyoming	
				KZWY			U. S. N., Radio Lab., Anacostia, D. C.	
				KZWZ		NMC	U.S.C.G., Point Bontin, Calif.	121.6, 113.1, 112, 111, 74.07
						NMF	U.S.C.G., Nahant, Mass.	121.6, 113.1, 112, 111, 110.9, 74.04

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
NMG	U.S.C.G., Mobile, Ala.	121.6, 113.1, 112, 111, 74.07	NRRJ	U.S.C.G., C.G. 197.		NRRK	U.S.C.G., C.G. 198.	
NMH	U.S.C.G., Washington, D. C.		NRRK	U.S.C.G., C.G. 199.		NRRM	U.S.C.G., C.G. 200.	
NML	U.S.C.G., Sault Ste. Marie, U. S.	121.6, 113.1, 112, 111, 110.9, 77.04	NRRP	U.S.C.G., C.G. 201.		NRRQ	U.S.C.G., C.G. 202.	
NMN	U.S.C.G., Cape Henry, Va.	121.6, 113.1, 112, 111, 110.9, 74.07	NRRR	U.S.C.G., C.G. 203.		NRRS	U.S.C.G., C.G. 204.	
NMV	U.S.C.G., Ft. Lauderdale, Fla.	121.6, 113.1, 112, 111, 74.07	NRRU	U.S.C.G., C.G. 205.		NRRV	U.S.C.G., C.G. 206.	
NMW	U.S.C.G., Port Townsend, Wash.	121.6, 113.1, 112, 111, 74.07	NRRW	U.S.C.G., C.G. 207.		NRRX	U.S.C.G., C.G. 208.	
NMY	U.S.C.G., Rockaway, N. Y.	121.6, 113.1, 112, 111, 74.07	NRRY	U.S.C.G., C.G. 209.		NRRZ	U.S.C.G., C.G. 210.	
NOA	U.S.C.G., Staten Is., N. Y.		NRUA	U.S.C.G., Champlain.		NRUB	U.S.C.G., Chelan.	
NOB	U.S.C.G., Buffalo, N. Y.	110.9	NRUC	U.S.C.G., Tahoe.		NRUD	U.S.C.G., Mendota.	
NOC	U.S.C.G., Barataria, La.		NRUE	U.S.C.G., Tampa.		NRUG	U.S.C.G., Haida.	
NOD	U.S.C.G., Block Is., R. I.		NRUF	U.S.C.G., Itasca.		NRUI	U.S.C.G., Saranac.	
NOF	U.S.C.G., St. Petersburg, Fla.	121.6, 113.1, 112, 111, 110.9, 74.04	NRUI	U.S.C.G., Northland.		NRUK	U.S.C.G., Mojare.	
NOG	U.S.C.G., Gloucester, Mass.		NRUL	U.S.C.G., Pontchartrain.		NRUM	U.S.C.G., Modoc.	
NOH	U.S.C.G., Charleston, N. C.		NRUM	U.S.C.G., Sebago.		NRUS	U.S.C.G., Cayuga.	
NOI	U.S.C.G., Biloxi, Miss.		NRUV	U.S.C.G., Cayuga.		NRVA	U.S.C.G., C.G. 211.	
NOJ	U.S.C.G., San Pedro, Calif.	121.6, 113.1, 112, 111, 110.9, 74.04	NRVW	U.S.C.G., C.G. 212.		NRVB	U.S.C.G., C.G. 213.	
NOK	U.S.C.G., Anacostia, Wash.		NRVX	U.S.C.G., C.G. 214.		NRVC	U.S.C.G., C.G. 215.	
NOL	U.S.C.G., Port Angeles, Wash.		NRVY	U.S.C.G., C.G. 216.		NRVD	U.S.C.G., C.G. 217.	
NOM	U.S.C.G., Miami, Fla.		NRVZ	U.S.C.G., C.G. 218.		NRVE	U.S.C.G., C.G. 219.	
NON	U.S.C.G., San Diego, Calif.		NRWA	U.S.C.G., C.G. 220.		NRVF	U.S.C.G., C.G. 221.	
NOP	U.S.C.G., Woods Hole, Mass.		NRWB	U.S.C.G., C.G. 221.		NRVG	U.S.C.G., C.G. 222.	
NOQ	U.S.C.G., Fernandina, Fla.		NRWC	U.S.C.G., C.G. 222.		NRVH	U.S.C.G., C.G. 223.	
NOR	U.S.C.G., Cleveland, Ohio.		NRWD	U.S.C.G., C.G. 223.		NRVI	U.S.C.G., C.G. 224.	
NOU	U.S.C.G., New London, Conn.	121.6, 113.1, 112, 111, 110.9, 74.07	NRWE	U.S.C.G., C.G. 224.		NRVJ	U.S.C.G., C.G. 225.	
NOV	U.S.C.G., Cape May, N. J.		NRWF	U.S.C.G., C.G. 225.		NRVK	U.S.C.G., C.G. 226.	
NOY	U.S.C.G., Galveston, Tex.		NRWG	U.S.C.G., C.G. 226.		NRVL	U.S.C.G., C.G. 227.	
NOZ	U. S. S., C. 412.		NRWH	U.S.C.G., C.G. 227.		NRVM	U.S.C.G., C.G. 228.	
NPA	U. S. N., Cordova, Alaska.	68.42, 34.2, 13.68, 12.27	NRWI	U.S.C.G., C.G. 228.		NRVN	U.S.C.G., C.G. 229.	
NPC	U. S. N., Puget Sound, Wash.	68.38, 34.20, 13.68	NRWJ	U.S.C.G., C.G. 229.		NRVO	U.S.C.G., C.G. 230.	
NPG	U. S. N., San Francisco, Calif.	70.84, 69.85, 68.38, 35.93, 34.90, 23.88, 11.84, 8.731	NRWV	U.S.C.G., C.G. 230.		NRVP	U.S.C.G., C.G. 231.	
NPL	U. S. N., San Diego, Calif.	99.83, 68.38, 34.2, 13.68, 11.84	NRWY	U.S.C.G., C.G. 231.		NRVQ	U.S.C.G., C.G. 232.	
NPM	U. S. N., Honolulu, Hawaii.	13.68, 9.271	NRX	U.S.C.G., C.G. 232.		NRWA	U.S.C.G., Corwin.	
NPN	U. S. N., Guam.	73.62, 67.63, 37.08, 35, 33.81, 16.91, 12.36, 12.31	NRXJ	U.S.C.G., C.G. 233.		NRWB	U.S.C.G., Dallas.	
NPO	U. S. N., Cavite, P. I.	73.62, 67.64, 66.3, 33.81, 33.15, 22.54, 13.26, 9.4, 8.287	NRXK	U.S.C.G., C.G. 234.		NRWC	U.S.C.G., Eagle.	
NPP	U. S. N., Peking, China.	73.62, 67.63, 33.81	NRXL	U.S.C.G., C.G. 235.		NRWD	U.S.C.G., Dexter.	
NPQ	U. S. N., St. Paul Prebiloi Is.	68.38, 34.2, 13.68	NRXM	U.S.C.G., C.G. 236.		NRWE	U.S.C.G., Forward.	
NPU	U. S. N., Tutuila, Samoa.	68.39, 34.2, 13.68	NRXQ	U.S.C.G., C.G. 237.		NRWF	U.S.C.G., Gallatin.	
NRCF	U.S.C.G., Redwing.		NRXP	U.S.C.G., C.G. 238.		NRWG	U.S.C.G., Mahoning.	
NRCG	U.S.C.G., Gresham.		NRXV	U.S.C.G., C.G. 239.		NRWH	U.S.C.G., Nansemond.	
NRCO	U.S.C.G., Ossipee.		NRXW	U.S.C.G., C.G. 240.		NRWI	U.S.C.G., Naugatuck.	
NRCQ	U.S.C.G., Tuscarora.		NRXZ	U.S.C.G., C.G. 241.		NRWJ	U.S.C.G., Patriot.	
NRCR	U.S.C.G., Seneca.		NRXA	U.S.C.G., C.G. 242.		NRWK	U.S.C.G., Perry.	
NRCV	U.S.C.G., Unalga.		NRXB	U.S.C.G., C.G. 243.		NRWL	U.S.C.G., Petrol.	
NRCW	U.S.C.G., Tallapoosa.		NRXC	U.S.C.G., C.G. 244.		NRWM	U.S.C.G., Wolcott.	
NRCY	U.S.C.G., Seminole.		NRXD	U.S.C.G., C.G. 245.		NRXN	U.S.C.G., C.G. 233.	
NRDA	U.S.C.G., Yamacraw.		NRXF	U.S.C.G., C.G. 246.		NRXO	U.S.C.G., C.G. 234.	
NRDC	U.S.C.G., Cassin.		NRXG	U.S.C.G., C.G. 247.		NRXP	U.S.C.G., C.G. 235.	
NRDD	U.S.C.G., Conyngham.		NRXH	U.S.C.G., C.G. 248.		NRXQ	U.S.C.G., C.G. 236.	
NRDE	U.S.C.G., Davis.		NRXJ	U.S.C.G., C.G. 249.		NRXV	U.S.C.G., C.G. 237.	
NRDF	U.S.C.G., Hunt.		NRXK	U.S.C.G., C.G. 250.		NRXW	U.S.C.G., C.G. 238.	
NRDG	U.S.C.G., Wilborn C. Wood.		NRXL	U.S.C.G., C.G. 251.		NRXX	U.S.C.G., C.G. 239.	
NRDL	U.S.C.G., Herndon.		NRXM	U.S.C.G., C.G. 252.		NRXY	U.S.C.G., C.G. 240.	
NRDM	U.S.C.G., McDougal.		NRXQ	U.S.C.G., C.G. 253.		NRXZ	U.S.C.G., C.G. 241.	
NRDO	U.S.C.G., G. E. Badger.		NRXP	U.S.C.G., C.G. 254.		NRYA	U.S.C.G., C.G. 242.	
NRDP	U.S.C.G., Porter.		NRXV	U.S.C.G., C.G. 255.		NRYB	U.S.C.G., C.G. 243.	
NRDQ	U.S.C.G., Abel P. Upshur.		NRXW	U.S.C.G., C.G. 256.		NRYC	U.S.C.G., C.G. 244.	
NRDS	U.S.C.G., Shaw.		NRXX	U.S.C.G., C.G. 257.		NRYD	U.S.C.G., C.G. 245.	
NRDU	U.S.C.G., Tucker.		NRXY	U.S.C.G., C.G. 258.		NRYE	U.S.C.G., C.G. 246.	
NRDV	U.S.C.G., Wilkes.		NRXZ	U.S.C.G., C.G. 259.		NRZF	U.S.C.G., C.G. 247.	
NRDX	U.S.C.G., Wainwright.		NRYA	U.S.C.G., C.G. 260.		NRZ	U.S.C.G., C.G. 248.	
NRE	U.S.C.G., Acushnet.		NRYB	U.S.C.G., C.G. 261.		NRZB	U.S.C.G., C.G. 249.	
NREB	U.S.C.G., Cabokia.		NRYC	U.S.C.G., C.G. 262.		NRZC	U.S.C.G., C.G. 250.	
NREK	U.S.C.G., Apache.		NRYD	U.S.C.G., C.G. 263.		NRZD	U.S.C.G., C.G. 251.	
NREK	U.S.C.G., Carrahasset.		NRYE	U.S.C.G., C.G. 264.		NRZF	U.S.C.G., C.G. 252.	
NREK	U.S.C.G., Kickapoo.		NRZF	U.S.C.G., C.G. 265.		NRZG	U.S.C.G., C.G. 253.	
NREK	U.S.C.G., Manhattan.		NRZ	U.S.C.G., C.G. 266.		NRZH	U.S.C.G., C.G. 254.	
NREK	U.S.C.G., Mascoutin.		NRZB	U.S.C.G., C.G. 267.		NRZJ	U.S.C.G., C.G. 255.	
NREK	U.S.C.G., Pamlico.		NRZC	U.S.C.G., C.G. 268.		NRZK	U.S.C.G., C.G. 256.	
NREK	U.S.C.G., Pequot.		NRZD	U.S.C.G., C.G. 269.		NRZL	U.S.C.G., C.G. 257.	
NREK	U.S.C.G., Shawnee.		NRZF	U.S.C.G., C.G. 270.		NRZM	U.S.C.G., C.G. 258.	
NREK	U.S.C.G., Snobomish.		NRZG	U.S.C.G., C.G. 271.		NRZO	U.S.C.G., C.G. 259.	
NREK	U.S.C.G., Tamasoa.		NRZH	U.S.C.G., C.G. 272.		NRZP	U.S.C.G., C.G. 260.	
NREK	U.S.C.G., Saukee.		NRZJ	U.S.C.G., C.G. 273.		NRZQ	U.S.C.G., C.G. 261.	
NREK	U.S.C.G., Aurora.		NRZK	U.S.C.G., C.G. 274.				
NREK	U.S.C.G., Argo.		NRZL	U.S.C.G., C.G. 275.				
NREK	U.S.C.G., Calypso.		NRZM	U.S.C.G., C.G. 276.				
NREK	U.S.C.G., Daphne.							
NREK	U.S.C.G., Hermes.							
NREK	U.S.C.G., Icarus.							
NREK	U.S.C.G., Perseus.							
NREK	U.S.C.G., Thetis.							
NREK	U.S.C.G., C.G. 100.							
NREK	U.S.C.G., C.G. 101.							
NREK	U.S.C.G., C.G. 102.							
NREK	U.S.C.G., C.G. 103.							
NREK	U.S.C.G., C.G. 104.							
NREK	U.S.C.G., C.G. 105.							
NREK	U.S.C.G., C.G. 106.							
NREK	U.S.C.G., C.G. 107.							
NREK	U.S.C.G., C.G. 109.							
NREK	U.S.C.G., C.G. 110.							
NREK	U.S.C.G., C.G. 112.							
NREK	U.S.C.G., C.G. 115.							
NREK	U.S.C.G., C.G. 116.							
NREK	U.S.C.G., C.G. 117.							
NREK	U.S.C.G., C.G. 118.							



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
NRZT	U.S.C.G., C.G. 295		WAED	Aero Radio, Harrisburg, Pa.	97.33, 86.5, 54.44, 47.13, 37.43, 24.63	WCEN	Reliance	54.3, 54, 36.19, 35.5, 27.15, 27, 26.71, 22.66, 18.094, 36.01
NRZU	U.S.C.G., C.G. 943		WAEE	Aero Radio, Camden, N. J.	97.33, 86.5, 54.44, 47.13, 37.43, 24.63	WCEN	Ramah	129.3, 54.3, 54, 36.19, 27.15, 27, 18.182, 18.007
NRZV	U.S.C.G., C.G. 298		WAEF	Aero Radio, Newark, N. J.	97.33, 86.5, 54.44, 47.13, 37.43, 24.63	WCEN	Argosy	36.19, 36.01, 35.5, 27.15, 27, 26.71, 22.66, 18.094, 36.01
NRZW	U.S.C.G., C.G. 299		WAEG	Aero Radio, Cresson, Pa.	110.21, 109.72, 73.02, 47.13, 37.43, 24.63	WCEN	Sararma	36.01, 35.5, 27.15, 27, 26.71, 22.66, 18.094, 36.01
NRZY	U.S.C.G., C.G. 300		WAEH	Aero Radio, Inc., Milwaukee, Wis.	112.44, 112.28, 105.12, 99.83, 55.8	WCEN	Hussar	36.19, 36.01, 35.5, 27.15, 27, 26.71, 22.66, 18.094, 36.01
NRZZ	U.S.C.G., C.G. 301		WAEI	Aero Radio, Inc., Detroit, Mich.	111.10, 102.11, 51.5	WCEN	Continental	96.61, 17.794
NUDG	U.S.S. Ranger		WAEJ	Aero Radio, Inc., Springfield, Ill.	129.53, 37.43	WCEN	Fortitude	54.3, 54, 45.52, 36.19, 35.5, 27.15, 27, 22.09, 18.094
NUDN	U.S.S. Pataoka		WAEK	Aero Radio, Inc., Mobile, Ala.	92.8, 53.20	WCEN	Export S.S.Co., Exeter	54.3, 54, 45.52, 36.19, 35.5, 27.15, 27, 22.09, 18.094
NUMM	U.S.S. Litchfield		WAEF	Aero Radio, Inc., U.S.A.	93.09, 53.20	WCEN	Fire Dept., New York, N. Y.	187.97
NUQR	U.S.S. Pope		WAF	M. R. T. Co., Hialeah, Fla.	28.68	WCEN	Texas Co., La., Miss., Tex.	176.06
NUQS	U.S.S. Pillsbury		WAG	T. R. T. Co., Bar Harbor, Me.	71.49, 54.3, 34.5, 27.15	WCEN	Light Co., Hazelton, Pa.	94
NUXB	U.S. Customs Patrol 538	88.62	WAJ	R. C. A., Rocky Point, N. Y.	22.25	WCEN	Police, Detroit, Mich.	124.17
NUXC	U.S. Customs Patrol 522	88.62	WAM	T. R. T. Co., Hialeah, Fla.	23.16	WCEN	Cont. Oil, 3rd Radio Zone	176.06
NVMAB	Aircraft on U.S.S. Texas		WAN	T. R. T. Co., Hialeah, Fla.	70.42	WCEN	R. C. A., Cleveland, Ohio	96.61, 96.15, 72.46, 62.63, 54.35, 48.31, 47.39, 36.23, 35.01, 27.17, 26.775
NVMAC	Aircraft on U.S.S. Cincinnati		WAO	Detroit Edison, Superior, Mich.	94	WCEN	R. C. A., Rocky Point, N. Y.	44.56, 31.65
NVMAD	Aircraft on U.S.S. Jason		WAQ	Westinghouse, Newark, N. J.	44.03	WCEN	R. C. A., Rocky Point, N. Y.	44.71
NVMAG	Aircraft on U.S.S. Augusta		WAR	U. S. A., Wash., D. C.	74.65, 74.54, 70.50, 68.73, 42.92, 37.31, 37.27, 35.25, 24.88, 24.84, 23.50, 18.63, 12.42, 9.31	WCEN	R. C. A., Rocky Point, N. Y.	20.20
NVMAH	Aircraft on U.S.S. Louisville		WAT			WCEN	R. C. A., Rocky Point, N. Y.	39.95
NVMAI	Aircraft on U.S.S. Houston		WAU			WCEN	Bowdin	109, 69.56, 34.78, 23.18
NVMAJ	Aircraft on U.S.S. Chester		WAX	T. R. T., Hialeah, Fla.	96.61, 96.15, 72.46, 62.69, 48.31, 47.54, 36.23, 35.34, 27.17, 26.67	WCEN	Rujeta	36.19, 17.79
NVMAK	Aircraft on U.S.S. Northampton		WAZ	R. C. A., New Brunswick, N.J.	20.107	WCEN	Caroline	36.19, 17.794
NVMAP	Aircraft on U.S.S. Salt Lake City		WBB	Texas Co., La., Miss., Tex.	178.15	WCEN	Western Enterprise	129.3
NVMAQ	Aircraft on U.S.S. Pensacola		WBC	New York City, Macom	176.06	WCEN	Aradian	129.3
NVMAW	Aircraft on U.S.S. Pennsylvania		WBD	Texas Co., La., Miss., Tex.	54.3, 54, 45.52, 45.42, 36.19, 35.5, 27.15, 27	WCEN	Trawler	129.3
NVMAX	Aircraft attached to Macon		WBDP	All Amer. Cable, Guardian		WCEN	Marie II	54.3, 54, 45.32, 27.15, 27, 22.66
NVMB	Aircraft on U.S.S. California		WBDX	Research Co., Big Bill	200, 175, 105	WCEN	Richard S.	129.3
NVMBD	Aircraft on U.S.S. Indianapolis		WBE	Texas Co., La., Miss., Tex.	176.06	WCEN	William I. Muir	129.3
NVMBF	Aircraft on U.S.S. Oklahoma		WBEA	Yacht, Tempress	54.3, 54, 35.50	WCEN	City of Baltimore, Md.	54.3, 13.501
NVMBG	Aircraft on U.S.S. Concord		WBEF	Export S.S.Co., Exochorda	54.3, 54, 45.52, 36.19, 35.50, 27.15, 27	WCEN	Vclero	54.3
NVMBH	Aircraft on U.S.S. Astoria		WBEK	W. K. Vanderbilt, Alva	54.3, 54, 45.52, 45.42, 36.19	WCEN	Edouard Jeramic	54.3
NVMBI	Aircraft on U.S.S. Astoria		WBEM	Invader	54.3, 54, 36.19, 18.094, 18.007	WCEN	E. P. No. 6	129.3
NVMBJ	Aircraft on U.S.S. Minneapolis		WBEN	White Star	54.3, 54, 36.01, 27.15, 27, 18.094, 18.007	WCEN	Herbert Hoover	96.15, 71.94, 48.30, 48.23
NVMBK	Aircraft on U.S.S. Marblehead		WBET	Belle Isle	54.3, 54, 36.01, 27.15, 27, 18.004	WCEN	Asama	54.3, 17.79
NVMBL	Aircraft on U.S.S. Maryland		WBEU	Fisherman II		WCEN	Camden	
NVMBM	Aircraft on U.S.S. Concord		WBEZ	Liberty	118.29	WCEN	General call, all vessels of Dollar S.S.Co.	
NVMBN	Aircraft on U.S.S. Colorado		WBF	Tropical Radio, Hingham, Mass.	96.61, 96.15, 72.46, 62.69, 54.3, 48.31, 46.95, 27.15, 26.23, 24.15, 23.95, 18.116, 17.668, 13.587, 13.348	WCEN	R. C. A., Rocky Point, N. Y.	15.87
NVMBP	Aircraft on U.S.S. Antares		WBG	Texas Co., La., Miss., Tex.	176.06	WCEN	R. C. A., Rocky Point, N. Y.	28.27
NVMBQ	Aircraft on U.S.S. New Orleans		WBH	Texas Co., La., Miss., Tex.	176.06	WCEN	R. C. A., Rocky Point, N. Y.	43.29
NVMBR	Aircraft on U.S.S. Memphis		WBI	Penna. Light, Tuckerville, Pa.	94	WCEN	R. C. A., Rocky Point, N. Y.	33.37
NVMBG	Aircraft at First Naval Dist.		WBJ	Texas Co., La., Miss., Tex.	62.82, 54.3, 46.58, 35.01	WCEN	R. C. A., Rocky Point, N. Y.	28.22
NVMBD	Aircraft at Third Naval Dist.		WBL	R. C. A., Buffalo, N. Y.		WCEN	Press Wireless, Hicksville, N. Y.	43.35
NVMBE	Aircraft at Fourth Naval Dist.		WBM	Light Co., Detroit, Mich.	94	WCEN	Aero Radio, Inc., Atlanta, Ga.	126.1, 102.66, 101.83, 45.52, 45.45
NVMBF	Aircraft at Fifth Naval Dist.		WBN	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio Corp., Baltimore, Md.	126.1, 102.66, 101.83, 100.46, 72.64, 53.07, 45.52, 45.45
NVMBG	Aircraft at Sixth Naval Dist.		WBO	T. R. T. Co., Hingham, Mass.	44.264	WCEN	Aero Radio, Inc., Charleston, S. C.	97.71, 97.5, 72.04, 52.72, 47.46
NVMBH	Aircraft at Seventh Naval Dist.		WBP	Doc, Key West, Fla.	89.6, 89, 88.11, 50.68, 50.51, 50.34	WCEN	Aero Radio Co., Spartanburg, S. C.	97.71, 97.52, 52.72
NVMBI	Aircraft at Eighth Naval Dist.		WBS	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio Co., Greensboro, N. C.	97.71, 97.52, 52.72
NVMBJ	Aircraft at Ninth Naval Dist.		WBU	R. C. A., Rocky Point, N. Y.	14.11	WCEN	Aero Radio, Inc., MeCra, Ga.	97.71, 97.5, 72.04, 52.72, 47.46
NVMBK	Aircraft at Tenth Naval Dist.		WBX	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio, Inc., Jacksonville, Fla.	97.71, 97.5, 72.04, 52.72, 47.46
NVMBL	Aircraft at Eleventh Naval Dist.		WBY	T. R. T. Co., Hingham, Mass.	28.68	WCEN	Aero Radio Co., Stelton, N. J.	97.71, 97.52, 52.72
NVMBM	Aircraft at Twelfth Naval Dist.		WCA	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio, Inc., Orlando, Fla.	126.1, 102.66, 101.83, 100.46, 72.64, 53.07, 61.37, 45.52, 45.45
NVMBN	Aircraft at Thirteenth Naval Dist.		WCB	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio, Inc., Atlantic City, N. J.	126.1, 102.66, 101.83, 100.46, 72.64, 53.07, 45.52, 45.45
NVMBP	Aircraft at Fourteenth Naval Dist.		WCC	R. C. A., Marion, Mass.	71.63, 54.3, 27.15, 26.96, 26.74, 24.15, 23.725, 18.116, 17.751, 13.793, 13.587, 13.453	WCEN	Aero Radio Co., Richmond, Va.	97.71, 97.5, 52.72
NVMBQ	Aircraft at Fifteenth Naval Dist.		WCCM	Dollar S.S., Pres. Johnson	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57	WCEN	Cipango	54.3
NVMBR	Aircraft at Sixteenth Naval Dist.		WCCN	Dollar S.S., Pres. Filmore		WCEN	Melodie	
NVMBG	Aircraft at Guam Naval Dist.		WCCR	Alaska S.S., Aleutian	54.3, 35.50, 28.71, 54, 27.15	WCEN	Aero Radio, Inc., Carlstadt, N. J.	39.34, 39.27, 32.5, 31.98, 29.78
NVMBH	Aircraft at Guantanamo		WCD	Texas Co., La., Miss., Tex.	176.06	WCEN	Aero Radio, Inc., Tinley Park, Ill.	39.34, 39.27, 32.5, 31.95, 29.79
NVMBI	Aircraft on U.S.S. Arizona		WCE	T. R. T. Co., Hingham, Mass.	23.16	WCEN	Excambian	
NVMBJ	Aircraft on U.S.S. Pataoka		WCEA	Boston Pilot	118.29	WCEN	Olympic	54.3, 54, 36.01, 27.15, 18.094, 18.007
NVMBK	Aircraft on U.S.S. Nevada		WCEB	Ingomar	54.3, 54, 53.43	WCEN	R. C. A., Rocky Point, N. Y.	31.31
NVMBL	Aircraft on U.S.S. Mississippi		WCEC	Toatoosh	129.3, 117.2	WCEN	R. C. A., Rocky Point, N. Y.	40.45
NVMBM	Aircraft on U.S.S. Ranger		WCEH	Glenn Mayne Light	54.3, 54, 39.19, 36.01	WCEN	Norfolk, Va.	105.2
NVMBN	Aircraft on U.S.S. Arkansas		WCEI	Glenn Dalton	129.3	WCEN	R. C. A., Rocky Point, N. Y.	44.51
NVMBP	Aircraft on U.S.S. Argonne		WCEJ	Florida Hawk	123.55	WCEN	R. C. A., Rocky Point, N. Y.	89.6, 89, 50.51, 50.34
NVMBQ	Aircraft on U.S.S. New Mexico		WCEK	San Salvador	54.3, 54, 36.19, 18.094, 18.007	WCEN	R. C. A., Rocky Point, N. Y.	33.32
NVMBR	Aircraft on U.S.S. New York		WCEL	Ajax	36.19, 35.5, 27.15, 26.71, 22.06	WCEN	R. C. A., Rocky Point, N. Y.	40.54
NVMBG	Aircraft on U.S.S. Wyoming			Bluefin	54.3, 54, 45.52, 36.01, 27.15, 27, 18.004	WCEN	R. C. A., New Brunswick, N.J.	40.50
NVMBH	Aircraft on U.S.S. Detroit			Europa	54.3, 54, 36.01	WCEN	R. C. A., Rocky Point, N. Y.	43.11
NVMBI	Aircraft on U.S.S. Tennessee					WCEN	Cape Charles, Va.	99.99
NVMBJ	Aircraft on U.S.S. Tennessee					WCEN	R. C. A., Rocky Point, N. Y.	44.70
NVMBK	Aircraft on U.S.S. Tennessee					WCEN	R. C. A., New Brunswick, N.J.	31.74
NVMBL	Aircraft on U.S.S. Tennessee					WCEN	R. C. A., Rocky Point, N. Y.	31.67
NVMBM	Aircraft on U.S.S. Tennessee					WCEN		
NVMBN	Aircraft on U.S.S. Tennessee					WCEN		
NVMBP	Aircraft on U.S.S. Tennessee					WCEN		
NVMBQ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBR	Aircraft on U.S.S. Tennessee					WCEN		
NVMBG	Aircraft on U.S.S. Tennessee					WCEN		
NVMBH	Aircraft on U.S.S. Tennessee					WCEN		
NVMBI	Aircraft on U.S.S. Tennessee					WCEN		
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NVMBK	Aircraft on U.S.S. Tennessee					WCEN		
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NVMBM	Aircraft on U.S.S. Tennessee					WCEN		
NVMBN	Aircraft on U.S.S. Tennessee					WCEN		
NVMBP	Aircraft on U.S.S. Tennessee					WCEN		
NVMBQ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBR	Aircraft on U.S.S. Tennessee					WCEN		
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NVMBP	Aircraft on U.S.S. Tennessee					WCEN		
NVMBQ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBR	Aircraft on U.S.S. Tennessee					WCEN		
NVMBG	Aircraft on U.S.S. Tennessee					WCEN		
NVMBH	Aircraft on U.S.S. Tennessee					WCEN		
NVMBI	Aircraft on U.S.S. Tennessee					WCEN		
NVMBJ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBK	Aircraft on U.S.S. Tennessee					WCEN		
NVMBL	Aircraft on U.S.S. Tennessee					WCEN		
NVMBM	Aircraft on U.S.S. Tennessee					WCEN		
NVMBN	Aircraft on U.S.S. Tennessee					WCEN		
NVMBP	Aircraft on U.S.S. Tennessee					WCEN		
NVMBQ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBR	Aircraft on U.S.S. Tennessee					WCEN		
NVMBG	Aircraft on U.S.S. Tennessee					WCEN		
NVMBH	Aircraft on U.S.S. Tennessee					WCEN		
NVMBI	Aircraft on U.S.S. Tennessee					WCEN		
NVMBJ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBK	Aircraft on U.S.S. Tennessee					WCEN		
NVMBL	Aircraft on U.S.S. Tennessee					WCEN		
NVMBM	Aircraft on U.S.S. Tennessee					WCEN		
NVMBN	Aircraft on U.S.S. Tennessee					WCEN		
NVMBP	Aircraft on U.S.S. Tennessee					WCEN		
NVMBQ	Aircraft on U.S.S. Tennessee					WCEN		
NVMBR	Aircraft on U.S.S. Tennessee					WCEN		
NVMBG	Aircraft on U.S.S. Tennessee							

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
WEV	R. C. A., New Brunswick, N.J.	43.21	WHG	Aero Radio, Inc., Columbus, Ohio	97.33, 86.5, 54.44, 47.13, 37.43, 24.63	WMDS	Amer. Lines, Pennsylvania	54.3, 54, 36.19, 35, 27.15, 26.71, 22.66
WEX	R. C. A., Rocky Point, N. Y.	22.30				WMDU	Pan Am. Air., San Juan, P. R.	55.09, 37.43, 112.69, 97.71, 52.72, 24.57, 47.24
WEY	Fire Dept., Boston, Mass.	192.55	WHM	Aero Radio, Indianapolis, Ind.	97.33, 86.5, 54.44, 47.13, 37.43, 24.63			
WZ	R. C. A., Rocky Point, N. Y.	43.30				WMDW	Santa Monica	54.3, 54, 36.19, 35.5, 27.15, 26.71, 22.66, 18.09, 18.007
WFC	Tropical Radio Co., New Orleans, La.	44.22	WHR	R. C. A., Rocky Point, N. Y.	22.35			
WFD	Tropical Radio Co., New Orleans, La.	28.65	WHV	Light Co., Newark, N. J.	94.9, 94.8, 94.6, 94.4, 94.2, 92.65, 92.5	WMDY	Panama Mail, Santa Catalina	54.3, 36.19, 27.15, 26.71, 22.66, 18.007
WFDT	Missouri	96.15, 71.09, 48.30, 48.23	WHZ	D. of C., Atlanta, Ga.	100.9, 89.8, 89, 88.24, 50.63, 50.51	WMDZ	Police, Indianapolis, Ind.	122.85
WFE	Tropical Radio Co., New Orleans, La.	23.13	WIDE	Booth Fisheries, Kiska	129.3	WMDZ	A. T. & T. Co., Lawrenceville, N. J.	20.73
WFEC	Elsie, Boy Scouts of Amer.	96.4, 54.03, 54, 36.10, 27.45, 22.66	WIDH	Yacht Buccaner, Great Lakes	87.3, 72.32	WMDZ	Police, Buffalo, N. Y.	124.17
WFEF	Fishing Float	129.3	WIDI	Mikimiki	115.56	WMDZ	A. T. & T. Co., Lawrenceville, N. J.	20.56
WFEQ	Babs	127.7	WIDJ	Tempress, Hawaii	54.3, 36.19, 27.15, 22.66, 18.09, 17.79	WMDZ	Police, Highland Pk., Ill.	124.27
WFEJ	Folly	127.7	WIDK	Beryl E.	129.3	WMDZ	Mass. State, Police, Boston	190.6
WFEK	Panama	54.3, 54, 36.01, 27.15, 18.007	WIDL	Alaska Salmon Co., Leonine	129.3	WMDZ	Southern Radio, Linden, N. J.	38.58, 15.16
WFEL	San Jose	36.18, 18.094, 18.007	WIDM	Alaska Salmon Co., Sally S.	129.3	WMDZ	Southern Radio Corp., Linden, N. J.	15.167
WFEM	Santa Margarita	36.19, 36.01, 35.5, 27.15, 27, 26.71, 22.66, 22.61	WIDR	Packing Co., Hazel Robb	129.3	WMDZ	A. T. & T. Co., Lawrenceville, N. J.	32.72
WFEN	Samona II	36.19, 36.01, 35.5, 27.15, 27, 26.71, 22.66, 22.61	WIDS	Packing Co., Barron F.	129.3	WMDZ	N. W. Gravel Co., Fred W. Green	54.3, 54, 53.42, 36.01
WFEP	Sequoia	54.3, 54, 36.19, 36.01, 18.094, 18.007	WIDT	Packing Corp., Sacco	129.3	WMDZ	Aero Radio, Angola, Ind.	94.93
WFEQ	Ruth L.	54.3, 54, 53.42, 36.01	WIE	M. R. T. Co., Sayville, N. Y.	38.74	WMDZ	Aero Radio, Litchfield, Ohio	94.9
WFER	Pippawinga	127	WIEA	Manhattan		WMDZ	Aero Radio, Bellefonte, Pa.	94.9
WFES	Columbus	54.3, 36.19, 18.007	WIEP	Gertrude Fauci	21.62	WMDZ	Aero Radio, Summit, N. J.	94.9
WFEE	Mayflower	54.3, 18.007	WIEQ	R. C. A., Rocky Point, N. Y.	43.07	WMDZ	Aero Radio, Moline, Ill.	94.57, 94.39, 53.86, 53
WFEE	Holiday	54.3, 54	WIEW	R. C. A., New Brunswick, N. J.	37.01	WNB	A. T. & T. Co., Lawrenceville, N. J.	44.41, 28.44
WFEE	Little Viking	54.3, 54	WIEY	R. C. A., Rocky Point, N. Y.	43.07	WNB	Cressida	54.3, 36.19, 36.01, 35.5, 27.15, 26.71, 22.66
WFEE	Mariposa, Lifeboat No. 1	54.3	WIZ	Intl. News, New York City	37.01	WNB	S. S. Thorpe	96.15, 71.94, 48.30, 48.23
WFEE	Mariposa, Lifeboat No. 2	54.3	WJD	Inland Water, Dwight Davis	87.7, 45.52	WNB	Katherine	129.3
WFEE	T. R. T. Co., New Orleans, La.	44.264	WJF	Migrant	36.19, 36.01, 35.5, 27.15, 27, 26.71, 2.266, 1.809, 9.4, 18.007, 17.794	WNB	Elgin, Ill.	33.5
WFEE	Geo. Exp. Co., 3rd Radio Zone	176.06	WJDM	Sartartia	54.3, 54, 36.19, 27.15, 27	WNB	Panama Line, S. S. Santa Isabele	36.19, 35.5, 27.15, 26.71, 22.66, 18.09
WFEE	Geo. Exp. Co., 3rd Radio Zone	176.06	WJDS	Boy Scouts, Ballantrae	109.3, 87.7	WNB	Panama Mail, Santa Oliva	54.3, 36.19, 35.5, 27.15, 26.71, 22.66, 18.09, 18.007
WFEE	T. R. T. Co., New Orleans, La.	28.68	WJEE	M. R. T. Co., Sayville, N. Y.	27.7	WNB	Light Co., Bradenton, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 7	176.06	WJEC	Harvard Seismograph Sta.	187.27, 184, 28, 181.6	WNB	Light Co., Lakeland, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 8	176.06	WJED	Harvard Seismograph Sta. Portable on Brown Chain	187.27, 184, 28, 181.6	WNB	Light Co., West Palm Beach, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 9	176.06	WJEF	City of Norfolk	54.3, 13.5	WNB	Light Co., Miami, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 10	176.06	WJEG	R. C. A., San Juan, P. R.	74.07, 70.15, 65.3	WNB	D. of C., Moline, Ill.	89.6, 89, 50.51, 50.34
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 11	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	14.245	WNB	D. of C., Moline, Ill.	89.6, 89, 50.51, 50.34
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 12	176.06	WJEG	R. C. A., Rocky Point, N. Y.	22.28	WNB	Light Co., Lake City, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 13	176.06	WJEG	R. C. A., Rocky Point, N. Y.	22.33	WNB	Light Co., Palatka, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 14	176.06	WJEG	P. A. A., Miami, Fla.	97.71, 52.72, 24.57, 1.303, 2, 9.75, 2, 72.74, 46.91, 37.43, 47.24	WNB	Light Co., Fort Lauderdale, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 15	176.06	WJEG	U. S. S. B., Violet Ray	129.3	WNB	Light Co., Punta Gorda, Fla.	94
WFEE	T. R. T. Co., New Orleans, La.	23.16	WJEG	Haida	187.97	WNB	Light Co., Sanford, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 16	176.06	WJEG	Fire Dept., Detroit, Mich.	175.23	WNB	Light Co., St. Augustine, Fla.	72.886, 13.538
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 17	176.06	WJEG	Police, Cincinnati, Ohio	175.23	WNB	Light Co., Daytona Beach, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 18	176.06	WJEG	Plant Dept., New York, N. Y.	175.50	WNB	Brooklyn, N. Y.	71.63
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 19	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	15.61	WNB	Light Co., Fort Pierce, Fla.	94
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 20	176.06	WJEG	R. C. A., Rocky Point, N. Y.	31.71	WNB	A. T. & T. Co., Lawrenceville, N. J.	44.41
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 21	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	14.01	WNB	A. T. & T. Co., Lawrenceville, N. J.	44.41
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 22	176.06	WJEG	R. C. A., Rocky Point, N. Y.	33.55	WNB	Inland Waterway, Genl. Ashbum	37.22
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 23	176.06	WJEG	R. C. A., Rocky Point, N. Y.	15.907	WNB	C. C. Webber	96.15, 71.94, 48.30, 48.23
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 24	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	15.136	WNB	Iolanda	72.3
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 25	176.06	WJEG	R. C. A., Rocky Point, N. Y.	18.78	WNB	Nippekonto	109.3
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 26	176.06	WJEG	R. C. A., Rocky Point, N. Y.	43.16	WNB	Mmt.	35.5, 27.15, 26.71, 23.06, 17.705
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 27	176.06	WJEG	R. C. A., New Brunswick, N. J.	18.75	WNB	Antares	23.06, 17.705
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 28	176.06	WJEG	R. C. A., Rocky Point, N. Y.	20.22	WNB	A. T. & T. Co., Lawrenceville, N. J.	30.77
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 29	176.06	WJEG	R. C. A., Rocky Point, N. Y.	19.423	WNB	A. T. & T. Co., Lawrenceville, N. J.	69.5 to 66.55
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 30	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	16.358	WNB	A. T. & T. Co., Lawrenceville, N. J.	28.44
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 31	176.06	WJEG	Rogers City, Mich.	72.9, 34.76	WNB	A. T. & T. Co., Lawrenceville, N. J.	30.4
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 32	176.06	WJEG	City of Newport News	42.92	WNB	A. T. & T. Co., Ocean Gate, N. J.	70.22, 63.1, 35.05, 23.36, 22.71, 17.57
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 33	176.06	WJEG	U. S. Army, Boston, Mass.	42.92	WNB	Trans-Atlantic Phone Channels with ship	21.58
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 34	176.06	WJEG	Wilsonville, Pa.	136.9	WNB	N. E. T. & T. Co., Marshfield, Mass.	115.8
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 35	176.06	WJEG	Bypro, Kentucky	42.92	WNB	N. Y. Tel. Co., New York, N. Y.	179.43
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 36	176.06	WJEG	U. S. Army, Columbus, Ohio	42.92	WNB	Comml. Radio Telephone ship to shore, N. Y. C.	87.66
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 37	176.06	WJEG	Cleveland, Ohio	42.92	WNB	A. T. & T. Co., New York, N. Y.	54.3, 46.47, 35.84, 25.75, 23.68, 18.09, 13.74, 13.57
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 38	176.06	WJEG	Santa Teresa, U. S. A.	42.92	WNB	Telephone Channel	
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 39	176.06	WJEG	U. S. Army, San Antonio, Tex.	18.44	WNB	General Call for all P. A. A. Ships	
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 40	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	16.76	WNB	Interlakes Co., Chas. M. Schwab	54.3, 54, 53.42, 36.01
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 41	176.06	WJEG	R. C. A., Rocky Point, N. Y.	42.92	WNB	Pat Dokeny	118.89, 117.2, 116.10
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 42	176.06	WJEG	U. S. Army, Wash., D. C.	42.92	WNB	David P. Fleming	109
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 43	176.06	WJEG	U. S. Army, Governors Is., New York City	42.92	WNB	Santa Barbara	54.3, 17.794
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 44	176.06	WJEG	Light Co., Minneapolis, Minn.	94	WNB	C. R. Runyon, Jr., Osprey III	54.3, 17.794
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 45	176.06	WJEG	U. S. Army, Ft. Howard, Md.	42.92	WNB	Beth. Ship Hdg., Quincy, Mass.	188.4, 46.05
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 46	176.06	WJEG	U. S. Army, Atlanta, Ga.	42.92	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 47	176.06	WJEG	U. S. Army, Chicago, Ill.	42.92	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 48	176.06	WJEG	U. S. Army, Omaha, Neb.	42.92	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 49	176.06	WJEG	U. S. Army, San Francisco, Cal.	42.92	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 50	176.06	WJEG	U. S. Army, Zamboanga, P. I.	69.70, 34.84	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 51	176.06	WJEG	U. S. Army, Fort Monmouth, N. J.	42.92	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 52	176.06	WJEG	A. T. & T. Co., Lawrenceville, N. J.	22.4	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 53	176.06	WJEG	Happy Days	18.094	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 54	176.06	WJEG	G. H. Phelps, Skagway	109, 34.78	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 55	176.06	WJEG	Matson Navig. Co, Matolo	54.3, 54, 36.19, 35.50, 27.15, 26.71, 22.66, 18.10	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 56	176.06	WJEG	Amer. Line, California	54.3, 36.19, 36.01, 35.05, 27.15, 22.66, 26.71	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 57	176.06	WJEG	M. R. T. Co., Sayville, N. Y.	15.974	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 58	176.06	WJEG	Santa Clara	54.3, 36.19, 35.59, 27.15, 26.71, 22.64	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 59	176.06	WJEG	Olive K.	54.3, 54, 53.42	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 60	176.06	WJEG	Jeanne	54.3, 54, 36.01	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 61	176.06	WJEG	Shasta	54.3, 54, 36.01	WNB		
WFEE	Geo. Exp. Co., 3rd Radio Zone No. 62	176.06	WJEG	S. O. Co., Far West Fisheries	129.3	WNB		

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
WPD	Tampa, Fla.	96.61, 96.2, 54.35, 36.23, 34.72	WQY	R. C. A., Rocky Point, N. Y.	14.92			
WPDA	Police, Cleveland, Ohio.	124.27	WQZ	R. C. A., San Juan, P. R.	19.40, 18.76			92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.45, 53.26, 45.87, 45.73, 37.43
WPDB	Police, Chicago, Ill.	175.23	WRB	P. A. A., Bangor, Me.	112.7, 97.71, 72.04, 52.72, 47.58, 37.43			
WPDC	Police, Chicago, Ill.	175.23	WRBE	J. P. Mitchell, New York City	192.55	WSDR	Aero Radio, Inc., Madison, Wis.	112.44, 112.28, 105.12, 99.83, 55.8
WPDD	Police, Chicago, Ill.	175.23	WRBH	Police, Cleveland, Ohio.	122.35			112.44, 112.28, 105.12, 99.83, 55.8
WPDE	Police, Louisville, Ky.	122.85	WRBN	John W. Weeks	96.15, 71.94, 48.30, 48.23	WSDS	Aero Radio, Inc., Chicago, Ill.	112.44, 112.28, 105.12, 99.83, 55.8
WPDF	Police, Flint, Mich.	122.85	WRBR	Frederick C.	129.3			
WPDG	Police, Youngstown, Ohio.	122.05	WRBS	Packing Co., Petrel.	129.3			
WPDH	Police, Richmond, Ind.	122.85	WRBV	Alaska Packer, Curlew	96.40, 54.3, 53.42	WSDZ	Aero Radio, Inc., Indianapolis, Ind.	72.9, 61, 55.55, 53.45, 54.26, 45.87, 45.8, 45.73, 37.43, 129.53, 92.8, 92.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08
WPGI	County Comm., Columbus, Ohio.	123.45	WRBY	Camargo	54.3, 54, 36.19, 35.5, 27.15, 27, 26.71			
WPDJ	Police, Passaic, N. J.	124.17	WRDM	P. A. A., Wash., D. C.	112.69, 97.71, 52.72			
WPKD	Police, Milwaukee, Wis.	122.44	WRDQ	Police, Toledo, Ohio.	121.5			
WPLD	City of Lansing, Mich.	122.85	WRDR	Police, Grosse Pt., Mich.	124.27			
WPLM	Police, Dayton, Ohio.	124.17	WRDS	State Police, Ingham, Mich.	190.6			
WPLN	City of Auburn, N. Y.	175.23	WRDU	Fire Dept., Brooklyn, N. Y.	187.9	WSG	D. of C., La Crosse, Wis.	89, 88.5, 50.51, 50.42
WPLP	Police, Akron, Ohio.	122.05	WRDX	Kilna	54.3, 54, 36.19, 27.15, 27.15, 27, 26.71	WSP	D. of C., Atlantic Coast.	150, 133
WPLQ	Police, Philadelphia, Pa.	121.5				WSQ	D. of C., Atlantic Coast.	150, 133
WPLR	City of Rochester, N. Y.	122.05				WSR	D. of C., Atlantic Coast.	150, 133
WPLS	Police, St. Paul, Minn.	124.17	WRDZ	Grampus	54.3, 54, 45.42, 122.34	WST	D. of C., Dry Tortugas L. H., Fla.	88
WPLT	Police, Kokomo, Ind.	121.5	WRGH	Police, Cleveland, Ohio.		WSX	D. of C., Boston, Mass.	89, 88.4, 73.7, 50.63, 50.51
WPLU	Police, Pittsburgh, Pa.	175.23	WRJ	D. of C., Poe Reef L. H., Mich.		WTA	U. S. A., Manila, P. I.	74.44, 69.69, 37.22, 34.84, 24.81, 18.61, 14.88, 11.42, 8.56, 7.62
WPLV	Police, Charlotte, N. C.	122.05	WRK	P. A. A., Calais, Me.	112.7, 97.71, 72.04, 52.72, 47.58, 47.43			
WPLW	Police, Detroit, Mich.	124.05	WRL	R. C. A., Duluth, Minn.	96.61, 96.15, 72.46, 62.63, 54.35, 48.31, 47.39, 36.23, 35.01, 27.17, 26.775			
WPLX	Police, Atlanta, Ga.	124.27				WTC	U. S. Army, Marshfield, Cal.	67.42, 33.75, 22.5
WPLY	Police, Fort Wayne, Ind.	121.05	WRP	Pincrest, Fla.		WTDG	Kittiwake	67, 54
WPE	R. C. A., Rocky Point, N. Y.	21.67	WRUD	Fire Dept., New York, N. Y.	187.97	WTDK	Harbor Trader	88.62
WPEA	Police, Syracuse, N. Y.	175.23	WRW	D. of C., Greensboro, N. C.	89.8, 89, 50.51, 50.63	WTDL	U. S. Customs Patrol No. 522	88.92
WPEB	Police, Grand Rapids, Mich.	122.85	WSBD	Gladys II	54.3, 54, 36.19	WTDN	U. S. Customs Patrol No. 538	88.92
WPEC	Police, Memphis, Tenn.	121.05	WSBM	Nakum	129.3	WTDZ	Nantucket	
WPED	Police, Arlington, Mass.	175.23	WSBN	U. S. Lines, Leviathan	95.9, 71.8, 33.98, 22.71, 17.007	WTEF	D. of C., Gilbert	72.55, 36.28
WPEE	Police, New York, N. Y.	122.4	WSBU	Amida	54.3, 54, 36.19, 35.5, 27.15, 27, 26.71	WTEI	D. of C., Hydrographer	72.55, 36.28
WPEF	Police, New York, N. Y.	122.4	WSBW	Panama Pacific, Virginia	54.3, 36.19, 36.01, 22.66	WTEJ	D. of C., Lydonia	
WPEG	Police, New York, N. Y.	122.4	WSBZ		54.3, 36.19, 36.01, 35.5, 27.15, 26.71, 22.66	WTER	Pathfinder, U. S. A.	45.25, 37.97
WPEH	Police, Somerville, Mass.	175.23	WSC	R. C. A., Tuckerton, N. J.	96.61, 96.15, 54.35, 54.05, 48.31, 47.32, 47.24, 36.23, 35.59, 27.17, 26.945, 26.775, 24.15, 23.07, 22.99, 18.170, 17.794, 13.825, 13.699, 13.587	WTF	Firestone, Akron, Ohio.	38.58, 15.167
WPEI	Police, Providence, R. I.	175.23				WTI	U. S. A., Vancouver, Wash.	74.44, 67.57, 37.22
WPEJ	Police, Brookline, Mass.	175.23	WSDB	Aero Radio, Jackson, Miss.	86.10, 56.29	WTJ	Fort Shafter, Hawaii, T. H.	73.53, 36.76, 24.51, 18.38, 14.68, 12.26, 9.8, 8.56
WPEK	Police, New Orleans, La.	123.5	WSOC	Newark, N. J.	86.10, 53.57	WTO	Fort Kamehameha, Honolulu, T. H.	18.38
WPEL	Police, Middleboro, Mass.	190.6	WSDD	Boston, Mass.	92.64, 53.57	WTP	Fort Ruger, Hawaii, T. H.	18.38
WPEM	Police, Woonsocket, R. I.	121.5	WSDE	Aero Radio, Birmingham, Ala.	86.10, 53.29	WTS	U. S. A., Denver, Colo.	73.35, 36.67
WPEQ	Police, Baton Rouge, La.	190.6	WSDF	Aero Radio, Inc., Louisville, Ky.	128.97, 127.98, 86.9, 86.7, 86.5, 86.1, 72.46, 53.98, 47.92, 47.8	WTT	R. C. A., Rocky Point, N. Y.	15.83
WPER	Police, Saginaw, Mich.	122.85				WTTM	Fort Monmouth, N. J.	42.92
WPEW	Police, Lexington, Ky.	175.23	WSDG	Aero Radio, Inc., Chicago, Ill.	129.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.45, 53.26, 45.87, 45.8, 45.73, 37.43	WTX	Fort McKinley, P. I.	69.7, 34.84
WPEX	Police, Northampton, Mass.	190.6				WTZ	Fort Sill, Okla.	73.35, 50.04, 36.67
WPEY	Police, Chattanooga, Tenn.	121.5	WSDH	Aero Radio, Inc., Nashville, Tenn.	128.97, 127.98, 86.9, 86.7, 86.5, 86.1, 72.46, 53.98, 47.92, 47.8	WUAC	U. S. A. T., Meigs	
WPEZ	Police, Framingham, Mass.	190.6				WUAD	U. S. A. T., St. Mihiel	
WPF	Police, Asheville, N. C.	122.05	WSDI	Aero Radio, Inc., Cincinnati, Ohio.	129.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.26, 45.87, 45.8, 45.73, 37.43	WUAF	U. S. A. T., Chateau Thierry	
WPFV	Police, Lakeland, Fla.	122.85				WUAG	U. S. A. T., Grant	70.5, 35.25, 23.5, 17.62
WPFX	Police, Pawtucket, R. I.	121.5	WSDJ	Aero Radio, Inc., Memphis, Tenn.	128.97, 47.8	WUAH	U. S. A. T., Merritt	
WPGW	Police, Palm Beach, Fla.	122.85	WSDK	Aero Radio, Inc., Duluth, Minn.	111.94, 99.86, 55.81	WUAI	U. S. A. T., Thomas	
WPH	Police, Wash., D. C.	124.05	WSDL	Aero Radio, Inc., Albany, N. Y.	A1-2-3, 61, 53.55, 53.45, 53.26, 45.87, 45.8, 45.73, 37.43, 129.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.26, 45.87, 45.8, 45.73, 37.43	WUAJ	U. S. A. T., Dellwood	
WPI	Williamsport, Pa.	94	WSDM	Aero Radio, Inc., Columbus, Ohio.	A1-2-3, 128.9, 7, 127.9, 8, 92.6, 4, 92.47, 86.9, 86.7, 86.5, 86.1, 72.40, 53.57, 56.29, 47.82, 47.8	WUAL	U. S. A. T., Ludington	70.50, 35.25, 23.50
WPL	Inland Waters, Memphis, Tenn.	87.7, 46.95	WSDN	Aero Radio, Inc., Syracuse, N. Y.	128.97, 127.98, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 72.40, 53.57, 56.29, 47.82, 47.8	WUAM	U. S. A. T., Republic	70.51, 35.25, 23.5, 17.628
WPM	Light Co., St. Croix Falls, Wis.	94				WUB	Fort Hancock, Sandy Hook, N. J.	
WPP	Birmingham, Ala.	87.7, 46.05	WSDO	Aero Radio, Inc., Buffalo, N. Y.	129.53, 127.33, 92.8, 92.52, 92.15, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.26, 45.87, 45.73, 37.43	WUC	Fort Wright, N. Y.	
WPPA	Mobile, Ala.	87.7, 46.05				WUGG	Aero Radio Inc., Chicago, Ill.	A1-2-3, 94.9, 94.75, 94.57, 94.39, 53.88, 53
WPPB	Light Co., Marysville, Mich.	94	WSDP	Aero Radio, Inc., Columbus, Ohio.	A1-2-3, 128.9, 7, 127.9, 8, 92.6, 4, 92.47, 86.9, 86.7, 86.5, 86.1, 72.40, 53.57, 56.29, 47.82, 47.8	WUE	Fort George, Wright, Wash.	74.44, 67.57, 37.22, 33.78
WPPC	R. C. A., Rocky Point, N. Y.	14.13				WUG	U. S. A., Camp Maria, Tex.	73.35, 67.49, 50.04, 36.67
WPPD	R. C. A., Rocky Point, N. Y.	16.72	WSDQ	Aero Radio, Inc., Cleveland, Ohio.	A1-2-3, 129.5, 3, 127.33, 92.8, 92.52, 92.15, 87.02, 86.77, 86.52, 86.08, 72.9, 61, 53.55, 53.26, 45.87, 45.73, 37.43	WUH	Fort McIntosh, Texas	
WPPQ	Seyelya	69.56, 34.78				WUI	Fort Riley, Kansas	67.72, 33.86
WPPR	Lambert	54.3, 54, 36.19, 27.15, 27				WUJ	Fort Lewis, Wash.	74.44, 67.57, 37.2, 33.75
WPPS	Trans. Co., Capt. Williams	109.5				WUL	Fort Totten, N. Y.	
WPPV	Trans. Co., Louise Black	109				WUM	Tucson, Ariz.	73.35, 67.42, 36.67, 33.75, 22.5
WPPW	Seattle Fire Dept., Alki	187.97				WUN	Aberdeen Prov. Grds., Md.	
WPPX	R. C. A., Rocky Point, N. Y.	16.79				WUO	Fort Benning, Ga.	
WPPY	Caracas					WUP	Fort Mills, P. I.	
WPPZ	Koichak	46.88, 36.06, 23.73, 54.3, 54, 45.82, 45.42, 36.19, 35.50, 27.15, 27, 23.06, 18.007				WUQ	Yuma, Ariz.	
WQ	Union Line, Frieda	27, 23.06, 18.007				WUR	Fort McClellan, Ala.	
WQA	Avalon	109.5				WUS	Fort Oglethorpe, Ga.	
WQB	W. W. Minnesota	87.7, 46.05				WUT	Fort Story, Va.	
WQC	R. C. A., Rocky Point, N. Y.	15.82				WUU	Fort Adams, R. I.	
WQD	Flow	129.19, 127, 109.56				WUV	Fort Thomas, Ky.	
WQE	J. P. Morgan, Corsair	36.19, 35.30, 27.15, 26.71, 22.06				WUX	West Point, N. Y.	
WQF	Aero Radio, Inc., Atlanta, Ga.	86.10, 53.57				WUY	Fort Ethan Allen, Vt.	
WQG	Gadfly II	54.3, 54, 36.19, 27.15, 27				WUZ	Fort Crockett, Texas	73.35
WQH	Aero Radio, Inc., Atlanta, Ga.	72.9, 61, 53.55, 53.45, 53.26, 45.87, 45.8, 45.73, 37.43, 129.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08				WVB	Fort Bragg, Brownsville, Tex.	73.35, 36.67
WQI	Aero Radio, Inc., New Orleans, La.	128.97, 127.98, 72.46, 47.92, 47.80				WVC	Fort Sam Houston, Texas	73.35, 67.32, 42.92, 36.67, 33.86, 22.57, 16.93
WQJ	Rene	36.19, 35.5, 27.15, 26.71, 22.66				WVD	Fort Leavenworth, Kans.	69.7, 68.57, 67.57, 34.84, 34.29, 22.86, 17.14
WQK	J. P. Morgan, Corsair	36.19, 35.50, 27.15, 26.71, 22.66				WVE	U. S. A., Seattle, Wash.	73.45, 69.61, 68.73, 68.57, 36.72, 24.48, 18.36, 14.70, 12.24
WQL	R. C. A., Rocky Point, N. Y.	18.85				WVW	U. S. A., Canal Zone, Panama	70.51, 68.7, 34.39, 22.91, 17.18, 12.24, 12.22, 11.46, 8.58
WQM	R. C. A., Rocky Point, N. Y.	16.74				WVM	U. S. A., Monterey, Calif.	67.57, 33.78
WQN	R. C. A., Rocky Point, N. Y.	19.94				WVN	U. S. A., Tientsin, China	67.72, 50.04, 33.86, 22.57, 16.93
WQO	R. C. A., Rocky Point, N. Y.	15.89				WVO	U. S. A., Boston, Mass.	67.5, 53.75, 67.45, 42.92
WQP	R. C. A., Rocky Point, N. Y.	16.77				WVP	Governors Isl., N. Y. City	70.51, 42.92
WQR	R. C. A., Rocky Point, N. Y.	14.12				WVR	Fort McPherson, Ga.	69.61, 42.92, 34.80
WQS	R. C. A., Rocky Point, N. Y.	16.46				WVT	Chicago, Ill.	68.49, 42.92, 34.25, 22.83
WQT	R. C. A., Rocky Point, N. Y.	20.25						
WQU	R. C. A., Rocky Point, L. I.	57, 54.05, 51.05						
WQV	R. C. A., Rocky Point, N. Y.	44.61						
WQW	R. C. A., Rocky Point, N. Y.	21.58						
WQX	R. C. A., Rocky Point, N. Y.	14.8						
WQY	R. C. A., Rocky Point, N. Y.	18.73						
WQZ	R. C. A., Rocky Point, N. Y.	21.55						
WR	R. C. A., New Brunswick, N. J.	21.60						
WRB	R. C. A., Rocky Point, N. Y.	21.85						
WRD	R. C. A., Rocky Point, N. Y.	20.27						
WRG	R. C. A., Rocky Point, N. Y.	14.08						
WRH	R. C. A., Rocky Point, N. Y.	14.86						

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
WVU	Fort Omaha, Nebr.	69.69, 67.57, 42.92, 33.78, 22.52	CFI	Woman Lake, Ont.	100, 185.2, 109.5, 90.04, 86.7, 48.02	CMM	Matanzas	40
WVW	Fort D. C. Russel, Wyoming	73.35, 36.67	CFJ	Red Lake, Ont.	100, 185.2, 109.5, 90.04, 86.7, 62.82, 48.02	CMO	Santiago	40
WVX	Fort Douglas, Salt Lake City, Utah	74.45, 67.57, 37.22	CFK	Tabouret, B. C.	185.2	CMP	Isle de Pines	40
WVY	U. S. A., San Francisco, Calif.	74.44, 69.67, 67.57, 34.88, 9.18	CFL	Manicougan River, P. Q.	185.2	CMR	Pinar de Rio	40
WVZ	Fort Haynes, Columbus, O.	73.53, 42.92, 36.76	CFM	Grande Prairie, Alberta	175.3, 124.17, 86.7, 62.82, 46.7	CMS	St. Clara	40
WWA	D. of C., Radio Test Car No. 1, Var.		CFN	Lethbridge, Alberta	175.3, 124.17, 86.7, 62.82, 46.7	CMV	Camaguey	40
WWAB	D. of C., Buffalo, N. Y.	89, 88.8, 50.59, 50.34	CFO	Edmonton, Alta.	98.7, 39.74	CMX	Havana	40
WWAC	D. of C., Nashville, Tenn.	89.69, 89.42, 89, 88.2, 50.88, 50.51	CFQ	Edmonton, Alta.	98.7, 39.74	CMY	Havana	40
WWAH	D. of C., Albany, N. Y.	89, 88.8, 50.59, 50.51	CFR	Mill Bay, B. C.	197.4, 131	CMZ	Havana	40
WWAJ	D. of C., Manitowish, Mich.	88	CFS	Nairn, B. C.	197.4, 131	CM2LA	Havana	29.98
WWAK	D. of C., Anacapa Light, Cal.	121.70	CFT	Toronto, Ont.	48.8	CM2MK	Havana	31.9, 32
WWAM	D. of C., Rock of Ages, Mich.	88	CFTS	Peace River, Alb.	175.3, 124.17, 86.7, 62.82, 46.7	CM6XJ	Cent. Tuinicu	19.99
WWAO	D. of C., Huron Is., Mich.	88	CFU	Goose Island, Ont.	185.2, 109.5, 90, 86.7, 62.82, 48.02	<b>CNA—CNZ MOROCCO</b>		
WWAP	D. of C., Pittsburgh, Pa.	89, 88.8, 50.53, 50.51	CFV	Bones Bay, B. C.	189.9, 131	CNB	Casablanca	107, 55.33
WWAQ	D. of C., Jackson, Miss.	101.4, 89, 88.62, 50.58, 50.51	CFW	Smith Inlet, B. C.	197.4, 131	CNC	Tangier	57, 55, 43, 25
WWAR	D. of C., Jackson, Miss.	89, 88.8, 50.53, 50.51	CFX	Rivers Inlet, B. C.	197.4, 131	CNO	Agadir	57, 55, 43, 25
WWAS	D. of C., Cincinnati, Ohio	101.4, 89, 88.62, 50.58, 50.51	CFY	Claxton, B. C.	197.4, 131	CNE	Rabat	44, 36
WWAT	D. of C., Birmingham, Ala.	101.4, 89, 88.62, 50.58, 50.51	CFZ	Drummondville, Ont.	16.50, 26.00, 32.13, 99.08, 69, 61.16	CNM	Rabat	55, 43, 27, 25, 107, 53, 45.5
WWAW	D. of C., Charleston, S. C.	89.8, 89, 50.83, 50.03, 50.51	CGA	Phone Channel to England Gold Lake, Man.	62.82	CNO	Casablanca Cazes	23.38, 37.33, 84
WWAY	D. of C., Spectacle Reef, Mich.	88	CGB	Drummondville, Ont.	146.3, 142.9, 90.04	CNR	Rabat	90
WWB	D. of C., Baltimore, Md.	88	CGD	Canadian Pacific Monarch.	198.7	CNW	Tangier	30
WWBY	D. of C., Martins Reef, Mich.	88	CGDJ	Selkirk Mines, Man.	39.74	<b>CPA—CPZ BOLIVIA</b>		
WWC	D. of C., Radio Test Car No. 6	88	CGE	The Pas, Man.	135, 62.82	CPAB	Bermejo	
WWE	Fourteen Fort Shoal, Mich.	88	CGF	Hebridean	181.8, 127.7	CPAC	Canieri	
WWG	D. of C., Cheboygan Range, Mich.	88	CGFR	Nauphia	181.8, 127.7	CPAD	Camatindi	
WWH	D. of C., Stannard Light, Mich.	88	CGFW	The Pas, Man.	148.5	CPAL	La Paz	68.18, 52.63, 50.42, 40.11, 20.067, 16.322
WWI	D. of C., Marquette Light, Mich.	88	CGH	Edmonton, Alb.	175.3, 124.17, 86.7, 62.82, 46.7	CPAM	Machaceti	
WWJ	D. of C., Detroit, Mich.	88	CGJ	Hudson, Ont.	41, 62.82	CPAY	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWK	D. of C., Cleveland, Ohio	89.3, 89, 50.54, 50.51	CGK	Winnipeg, Man.	95.18	CPC	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWL	D. of C., Bellefonte, Pa.	89.8, 89, 50.53, 50.51	CGL	Montreal, Que.	95.18	CPF	La Paz	40.11, 20.067
WWM	D. of C., Detroit, Mich.	88	CGM	Ocean Falls, B. C.	66.96	CPL	Santa Cruz	
WWN	D. of C., Hadley Field, N. C.	89.6, 89, 50.68, 50.51	CGO	Term Point, N. W. T.	195.8, 188.0, 185.2	CPS	La Paz	34.60, 30.64
WWO	D. of C., Washington, D. C.	89.82, 73.89, 24	CGP	Lac La Rague, Sask.	175.3, 124.17, 86.7, 62.82, 46.7	CPT	La Paz	16.322
WWP	D. of C., Key West, Fla.	88	CGQ	Calgary, P. Q.	43.88, 36.3, 23.4	CPU	Marchareta	
WWQ	U. S. A., Fort Barrow, Alaska	59.7, 34.36	CGS	McLean	55.50	CPV	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWR	U. S. A., Anchorage, Alaska	69.61, 64.63	CGSN	C. G. Cutter, Stanley	195.8, 188, 185.2	CPY	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWX	U. S. A., Ketchikan, Alaska	74.8, 37.27, 24.85	CGSR	Campbell River, Can.	95.18	<b>CQA—CQZ—CRA—CRZ PORTUGUESE COLONIES</b>		
WWY	U. S. A., City of Havre	18.63, 14.92	CGT	Waskesin, Sask.	148.5	CQA	Beira, Mozambique	34
WXA	U. S. A., City of Havre	54.3, 54, 45.42, 36.19, 35.5, 27.15, 27, 22.66, 18.09, 13.501	CGU	Yamachiche, P. Q.	198.7	CQG	Guelimane, Mozambique	30
WXK	U. S. A., St. Louis, Mo.	115.1	CGV	Flin Flou Mine, Man.	148.5	CQJ	Macao, Macau	21.5
WXR	U. S. A., Seward, Alaska	68.73, 34.36, 22.91, 17.18	CGY	Drummondville, Ont.	99.08, 69	CQK	Macao, Macau	32.5
WYD	U. S. A., Wright Field, Ohio	73.53, 36.76	CGZ	Nunmer Mt., Sask.	195.8, 188, 185.2	CRAP	Lowreno, Mozambique	31.6
WYG	U. S. A., Kelly Field, Texas	73.35, 67.45, 33.75, 22.5	CJA	Campbell River, B. C.	194.8	CRAT	Porto Amelia, Mozambique	30.3
WYN	U. S. A., Hatbox Field, Okla.	73.35, 67.42, 50.04, 36.67, 33.76, 22.2	CJC	Ceepceel, B. C.	198.7	CRAV	Vila Francisco, Mozambique	30.3
WYO	U. S. A., Hansley Field, Tex.	73.35, 67.42, 36.67, 33.75, 23.5	CJD	Thurston Bay, B. C.	194.8	CRAX	Vila Paiva, Mozambique	31.2
WYQ	U. S. A., Luke Field, Hawaii	18.38	CJE	Hecate Channel, B. C.	98.7, 131	CRF	Cape Verde Islands	18.45
WYS	U. S. A., Camp Clerk, P. I.	69.69	CJF	Knight Inlet, B. C.	198.7	CRG	El General	
WYX	Wheeler Field, Hawaii	18.38	CJG	Selwyn Inlet, B. C.	131	CRO	Costa Rica	
WYY	U. S. A., Dryden, Tex.	73.35, 67.42, 36.67, 33.75, 22.3	CJH	Prince Edwards Is.	189.9	CRS	Quanda Angold	18.564
WYZ	U. S. A., Fordsburg, N. M.	73.35, 67.42, 36.67, 33.75, 22.5	CJI	Cardero Channel, B. C.	198.7	CRZ	Lourenco Port.	18.36
WZAB	U. S. A., Midland, Tex.	73.35, 50.04, 42.92	CJJ	Wakman Sound, Man.	131, 198.7	<b>CSA—CUZ PORTUGAL</b>		
WZAJ	U. S. A., Wright Field, Ohio	Variable	CJK	Theodosia Arm, B. C.	198.7	CSBZ	Guana	35, 32, 26
WZB	U. S. A., Bracketville, Tex.	73.35, 36.67	CJL	Campbell River, B. C.	198.7	CSF	Portugal	18
WZC	U. S. A., Skagway, Alaska	69.61, 68.49, 34.80	CJM	Lagoon Bay, B. C.	131	CTAB	Adamastor	33
WZE	U. S. A., Kanakanak, Alaska	54.54	CJN	Wells Pass, B. C.	198.7	CTAH	Carraller Maiyo	
WZF	U. S. A., Squaw Harbor, Alaska	68.74, 34.36	CJO	Margaret Bay, B. C.	131	CTAO	Gil Eannes	
WZG	U. S. A., Fort Bragg, N. C.	42.92	CJP	Jackson Bay, B. C.	131	CTB	Portugal	79.89
WZJ	U. S. A., Schofield Barracks, Hawaii	18.38	CJK	Kayoo Bay, B. C.	198.7, 131	CTBH	Sagres	
WZK	U. S. A., St. Louis, La.	115.2	CJL	Geizes Hill, Nova Scotia	39.32, 54.64, 27.32	CTBJ	Vasco de Gama	
WZL	U. S. A., Nogales, Ariz.	73.35, 36.67	CJM	Calgary, Alta.	25.65	CTH	Horta, Azores	30, 20, 79.81
WZM	U. S. A., Douglas, Ariz.	73.35, 36.67	CJN	Winnipeg, Man.	44.78	CTT	Faro	33
WZN	U. S. A., Camp Stotesburg, P. I.	69.69, 34.84, 33.75	CJO	Saskatoon, Sask.	44.78	CTV	Monsanto	
WZO	Fort Bliss, El Paso, Tex.	73.35, 67.49, 36.37, 33.75	CJP	Baker Lake, N. W. T.	43.6	CTIAA	Santos	43.00
WZP	Fort Huachuca, Ariz.	73.35, 36.67	CJQ	Lowe Inlet, B. C.	197.4, 131	CUC	Lisbon	42.79, 42.55, 31.85, 31.68
WZQ	U. S. A., Camp J. Hay, P. I.	69.69, 34.84	CJR	Winnipeg, Man.	44.78	CUD	Lisbon	DR25.17, 24.82, 24.46
WZX	Air Port, San Jose, P. I.	69.69, 51.28	CJS	St. Johns, P. Q.	22.51	CUE	Lisbon	30.165, 29.4
<b>CAA—CEZ CHILE</b>			<b>CLA—CMZ CUBA</b>			<b>CVA—CVZ RUMANIA</b>		
GDA	Santiago, Chile	27.5, 15	CLA	Havana	36, 86.01, 84.01, 50.48	CVW	Herastran	33.23
GDK	Santiago, Chile	56.98, 14.54	CLE	Baracoa		<b>CWA—CXZ URUGUAY</b>		
GEA	Santiago, Chile	37.79	CLH	Holguin	74, 68, 64, 62, 36	CWA	Cerrito	51.06
GEC	Santiago	15.24, 18.91, 28.12	CLI	S. Clara	90.04, 87, 57, 51, 45, 42, 38, 36	CWD	Cerrito	45.39
<b>CFA—CKZ CANADA</b>			<b>CLM</b>			CWF	Cerrito	34.92
CFA	Drummondville, Canada	89.08, 69, 55.66, 61.16	CLP	Havana	50	CWG	Cerrito	26.39
CFB	Air Base, Patricia, Ont.	100, 185.2, 109.5, 90, 88.7, 48.02, 48.62, 53.54, 62.83	CMA	Havana		CWH	Cerrito	22.83
CFC	Thorpe's Harbor, B. C.	195.8, 188.0, 185.2	CM2	Havana		CWI	Cerrito	17.443
CFD	Ottawa, Ont.	55.2, 35.17, 24.29	CM3	Havana		<b>D—GERMANY</b>		
CFG	Gold Pines, Ont.	90.04, 69.12, 62.83, 54, 15, 53, 48, 62, 100, 185.2, 109.5, 90, 86.7, 48.02	CM4	Havana		DAAC	Europa	65.667, 18.160
CFH	Halifax, N. S.	33.17, 85.17, 37.57, 55.2, 69.12, 130.4	CM5	Havana		DAAS	Liner von Utricho	190, 160
<b>CGA—CGZ</b>			<b>CM6</b>			DABC	Walter Korte	190, 160
CGA	Drummondville, Ont.	16.50, 26.00, 32.13, 99.08, 69, 61.16	CM7	Havana		DAC	Elbe Weser	190, 180.7, 169, 160, 157.1
CGB	Drummondville, Ont.	146.3, 142.9, 90.04	CM8	Havana		DAEK	Milwaukee	66.66, 18.1
CGC	Canadian Pacific Monarch.	198.7	CM9	Havana		DAEW	Hummel	190, 160
CGD	Selkirk Mines, Man.	39.74	CM10	Havana		DAEX	Hagen	190, 160
CGE	The Pas, Man.	135, 62.82	CM11	Havana		DAHD	Arkna	190, 160
CGF	Hebridean	181.8, 127.7	CM12	Havana		DAHJ	Hindenburg	190, 160
CGFR	Nauphia	181.8, 127.7	CM13	Havana		DAL	Bremerhaven	175
CGFW	The Pas, Man.	148.5	CM14	Havana				
CGH	Edmonton, Alb.	175.3, 124.17, 86.7, 62.82, 46.7	CM15	Havana				
CGJ	Hudson, Ont.	41, 62.82	CM16	Havana				
CGK	Winnipeg, Man.	95.18	CM17	Havana				
CGL	Montreal, Que.	95.18	CM18	Havana				
CGM	Ocean Falls, B. C.	66.96	CM19	Havana				
CGO	Term Point, N. W. T.	195.8, 188.0, 185.2	CM20	Havana				
CGP	Lac La Rague, Sask.	175.3, 124.17, 86.7, 62.82, 46.7	CM21	Havana				
CGQ	Calgary, P. Q.	43.88, 36.3, 23.4	CM22	Havana				
CGS	McLean	55.50	CM23	Havana				
CGSN	C. G. Cutter, Stanley	195.8, 188, 185.2	CM24	Havana				
CGSR	Campbell River, Can.	95.18	CM25	Havana				
CGT	Waskesin, Sask.	148.5	CM26	Havana				
CGU	Yamachiche, P. Q.	198.7	CM27	Havana				
CGV	Flin Flou Mine, Man.	148.5	CM28	Havana				
CGY	Drummondville, Ont.	99.08, 69	CM29	Havana				
CGZ	Nunmer Mt., Sask.	195.8, 188, 185.2	CM30	Havana				
CJA	Campbell River, B. C.	194.8	CM31	Havana				
CJC	Ceepceel, B. C.	198.7	CM32	Havana				
CJD	Thurston Bay, B. C.	194.8	CM33	Havana				
CJE	Hecate Channel, B. C.	98.7, 131	CM34	Havana				
CJF	Knight Inlet, B. C.	198.7	CM35	Havana				
CJG	Selwyn Inlet, B. C.	131	CM36	Havana				
CJH	Prince Edwards Is.	189.9	CM37	Havana				
CJI	Cardero Channel, B. C.	198.7	CM38	Havana				
CJJ	Wakman Sound, Man.	131, 198.7	CM39	Havana				
CJK	Theodosia Arm, B. C.	198.7	CM40	Havana				
CJL	Campbell River, B. C.	198.7	CM41					



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
DALM	Brummer	180.72, 160.01, 153.06	DFR	Nauen	16.687	DTOC	Koblenz	190, 180.72, 169.01, 153.06
DALM	Brense	190, 160	DFQ	Nauen	19.237	DTOK	Adolf Kuhlbing	180.72, 169.01
DAN	Norddeich	198, 100, 89.5, 72.65, 66.18, 52.91, 36, 26.45, 18, 66.67, 35.12, 23.81, 45.45	DFT	Nauen	38.40	DTOM	Morve	180.72, 169.01
DANAB	Dox		DFU	Konigs Wusterhausen	54.1	DTOR	Reguliers	190, 180.72, 169.01, 153.06
DAS	Swinemunde	153.06, 53.238, 36.45, 180.7, 18.16, 18, 26.93, 190, 178, 169, 160	DFV	Konigs Wusterhausen	46.45	DTOW	Wilhelm Huth	190, 180.72, 169.01, 153.06
DCA	Ausseneider	180	DFW	Nauen	181.30	<b>EAA—EHZ SPAIN</b>		
DCA	Elbe Feuerschiff	160	DGA	Nauen	14.634	EAD	Cadiz	180.1
DCA	Elbe Feuerschiff	190, 160	DGB	Nauen	14.691	EAH	Madrid	32.93, 31.65, 16.456, 14.735, 14.556, 44.25, 44.58, 22.29, 26.11, 14.31
DCA	Elbe Feuerschiff	190, 160	DGC	Nauen	30.36	EAI	Canary Islands	170
DCA	Stubbenkammer	190, 160	DGD	Nauen	29.38	EAI	Reina Maria Eugenia	
DCA	Tonning	170.1	DGE	Nauen	13.321	EAI	Magallines	
DCU	Robbenplate	190, 160	DGF	Nauen	13.274	EAI	Madrid	30.864, 25.104, 44.26, 25.01
DCV	Bremen	160	DGG	Nauen	22.762	EAK	Las Palmas, Canary Is.	43.67, 43.2, 35.63, 30.549, 21.606, 20.08, 20.046, 19.91
DDAO	Altenbruch	190, 160	DGH	Nauen	28.89, 28.74	EAM	Madrid	43.29, 30.7, 25.65, 64.17, 61.42, 50.2, 38.07, 43.59, 20.17
DDAS	Bremen	66.667, 18.160	DGI	Nauen	22.42	EAN	Madrid	15.576, 15.385, 15.259
DDBR	Berlin	175	DGJ	Nauen	44.91	EAND	Cabo San Agustín	35.85, 23.9
DDCB	Columbus	66.667, 18.160	DGK	Nauen	14.058	EANE	Cabo Santo Pomi	35.85, 23.9
DDCG	Risolute	14.465	DGL	Nauen	14.164	EANW	Madrid	15.213, 15.06
DDCJ	Coblentz	175	DGM	Nauen	14.058	EAQ	Leon y Castillo	40
DDCP	Cap. Polonio	66.667, 18.160	DGN	Nauen	14.164	EAQX	La Palma	40
DDDA	Wiser	175	DGO	Nauen	14.465	EARN	Canary Islands	160
DDDB	Werra	175	DGP	Nauen	14.634	EAV	Madrid	50.7
DDDC	Saarbrücken	175	DGQ	Nauen	14.634	EAX	Barcelona	61.73, 50.70, 43.70, 37.41, 31.8, 21.79, 20.13, 60.54, 43.29
DDDF	Sierra Cordoba	175	DGR	Nauen	31.088	EAY	Basile	17.4
DDDQ	Serflinger	175	DGS	Nauen	40.95	EDK		4
DDDT	Deutschland	66.667, 18.160	DGT	Nauen	40.95	EDM	Pozuelo del Rey, Madrid	15.44
DDDX	Hamburg	66.667, 18.160	DGU	Nauen	31.088	EDN	Pozuelo del Rey, Madrid	15.76, 14.38, 13.36
DDEA	Cap. Arcona	66.667, 18.160	DGV	Nauen	22.682	EDO	Pozuelo del Rey, Madrid	59.29, 52.17, 43.04
DDED	New York	66.667, 18.160, 190, 160	DGW	Nauen	14.896	EDP	Palma de Mallorca	63.63, 56.13, 46.3, 127.3
DDFF	Reliance		DGX	Nauen	14.955	EDQ	Pozuelo del Rey, Madrid	15.44
DDFV	Micklenberg	151	DGY	Nauen	14.955	EDZ	Madrid	44.87, 29.97, 28.52, 25.75, 25.07, 22.44, 22.08, 16.502, 14.962
DDGR	Orion	66.667, 18.160	DGZ	Nauen	14.955	EHX	Madrid	28.25, 18.65, 14.58
DDGT	Gotha	175	DHA	Nauen	14.955	EHY	Madrid	29.70, 20.52, 15.76, 15.36, 14.38, 13.96
DDJD	Frier	175	DHB	Nauen	25.22	EHZ	Tablero, Teneriffe, Canary Is.	58.37, 51.24, 44.12, 18.4, 28.93
DDKD	Crefeld	175	DHC	Nauen	25.22	<b>ELA—ELZ LIBERIA</b>		
DDKO	Köln	175	DHD	Nauen	30.272	ELA	Monrovia	39.58, 34.264, 29.09, 19, 17.142, 16.25
DDKV	Ditmar Koel	190, 160	DHE	Nauen	40.95	ELB	Bassa	84.98
DDLL	Lutzow	175	DHO	Nauen	14.985	ELC	Monrovia	60
DDM	Hamburg	175	DIA	Konigs Wusterhausen	38.07	ELF	Quaside, Liberia	88.13, 29.1, 16.25
DDNE	Madrid	175	DIB	Konigs Wusterhausen	57.085	ELM	Monrovia	60.03, 29.79
DDNY	Albert Ballin	66.66, 18.160	DIC	Konigs Wusterhausen	56.24	ELP	Cape Palmas	75
DDOE	Sierra Morena	175	DID	Konigs Wusterhausen	55.20	ELR	Cape Mount	75.57
DDOY	Norderney	190, 160	DIF	Konigs Wusterhausen	14.792	ELS	Sinoe	60, 85.47
DDRD	Dresden	175	OIG	Konigs Wusterhausen	14.792	<b>ESA—ESZ ESTHONIA</b>		
DDRM	Karlsruhe	175	OIH	Nauen	15.040	ESG	Air Service	175
DDRQ	Auguste Kampf	180, 180.72, 169.10, 153.06	OIJ	Konigs Wusterhausen	15.43	ESL	Tallinn	42.86
DDRV	Wotan	190, 160	OIK	Konigs Wusterhausen	15.043	ESN	Tallinn	32
DDSV	Kustin Mites	190, 160	OIL	Konigs Wusterhausen	16.855	ESO	Tallinn	52.63, 42.85, 32
DDSY	Seydite	175	OIN	Konigs Wusterhausen	17.3	ESP	Parnu	127
DDTZ	Fieida	175	OIO	Konigs Wusterhausen	19.9	ESR	Rubnu	123
DDUF	Stuttgart	175	OIP	Konigs Wusterhausen	20.819	<b>F—FRANCE (Including colonies and protectorates)</b>		
DDVN	Sierra Ventana	175	OIQ	Konigs Wusterhausen	29.15	FALD	Aldobaren	
DDX	Tempelhof Berlin		DIR	Konigs Wusterhausen	26	FAMJ	Jeanne d' Arc	
DDYB	Gen'l Artigas		DIS	Nauen	29.54, 29.56	FAMP	Lamotte Piquet	
DDYO	York	175	OIT	Nauen	29.66	FBD	D'reigor, Syria	
DDZI	Amerika	70, 25	OIU	Konigs Wusterhausen	31.94	FBH	Beyrouth, Syria	
DEL	Nauen		OIV	Konigs Wusterhausen	14.8, 3283	FBP2	Malina Oceania, Papeete	40
DEN	Nauen		OIW	Konigs Wusterhausen	34.76	FBT	Tunis, North Africa	35, 30
DENNE	Graf Zeppelin	37.3	OIX	Konigs Wusterhausen	36.58	FBVY	Ville Dip	
DEP	Nauen		OIY	Konigs Wusterhausen	39.80	FCA	Rich, Morocco	58.5
DES	Nauen		OIZ	Konigs Wusterhausen	51.81, 51.72	FCB	Agadir, Morocco	56
DFA	Nauen	15.592	DJA	Konigs Wusterhausen	91.7	FCD	Erfroud, Morocco	56.52
DFB	Nauen	17.123	DKA	Konigs Wusterhausen	89.5	FCH	Bou-Denib, Morocco	59.31
DFC	Nauen	23.103	DKB	Konigs Wusterhausen	89.8	FCL	Midelt, Morocco	50.51
DFD	Nauen	20.457	DKC	Konigs Wusterhausen	64.2	FCQ	Quarzarat, Morocco	58
DFE	Nauen	30.582	DKD	Konigs Wusterhausen	61.9	FCR	Marrakesh, Morocco	57.5
DFF	Nauen	30.9	DKE	Konigs Wusterhausen	57.2	FCS	Rabat, Morocco	60
DFG	Nauen		DKF	Konigs Wusterhausen	64.2	FCT	Kasba Tadia, Morocco	52.5
DFI	Nauen		DKG	Konigs Wusterhausen	61.9	FCW	Kear es Sonk, Morocco	55.5
DFH	Nauen	40.91	DKH	Konigs Wusterhausen	54.6	FCZ	Fez, Morocco	52.5
DFJ	Nauen	15.228	DKJ	Konigs Wusterhausen	52.7	FEAI	Ouegla, Africa	
DFK	Nauen		DKL	Konigs Wusterhausen	48	FFI	Dieppe, France	150
DFL	Nauen	27.65	DKN	Konigs Wusterhausen	43.8	FFP	La Havre	
DFM	Nauen	15.416	DKO	Konigs Wusterhausen	40	FFS	S. Maries	35.5, 23.5, 48, 36.2, 24.05
DFO	Nauen	30.832	DKP	Konigs Wusterhausen	36.8	FFZ	Shanghai, China	
DFOA	Amsel	190, 160	DKQ	Konigs Wusterhausen	35.7	FFZI	Koukaga, China	28.5
DFOB	Bahrenfeld	190, 160, 180.72, 153.06	DKR	Karlsruhe		FGA	Dakar, Fr. W. Africa	37, 31, 22.50, 26.4, 39.38, 34.5
DFOC	Granz	190, 160	DOA	Coblentz	37.5, 67.76, 82.9	FGB	Port Etienne, Fr. W. Africa	50, 57.37
DFOD	Ditmar Koel	190, 180.72, 169.1, 153.06	DPOA	Atelrand	190, 160	FGB1	Port Etienne, Fr. W. Africa	50, 57.37
DFOE	Bremen	190, 160	DPOB	Hilde	190, 180.72, 169.1, 153.6	FGC	Conakry, Fr. W. Africa	34, 30.25, 22, 37, 26, 32.31
DFOF	Weser	190, 160	DPOC	Ernst von Briesen	190, 180.72, 169.1, 153.06	FGCI	Senegal, Fr. W. Africa	50
DFOG	Weisbaden	190, 160	DPOE	Dolly Kuhlbin	190, 160	FGD	Tabou, Fr. Old Africa	39, 40
DFOH	Huxtee	190, 160	DPOF	Hinrich Freise	190, 160	FGE	Grand Bassam, Fr. W. Africa	34.98, 33
DFOL	Pickhuber	190, 160	DPOG	Friederix Rex	190, 160			
DFOJ	Hans Joachim	190, 160	DPOH	Jacob Goldschmidt	190, 160			
DFOK	Konigsberg	190, 160	DPOI	Pres. Von Hindenberg	190, 160			
DFOL	Leipsig	190, 160	DPOJ	Island	190, 160			
DFOM	Marie Schroder	190, 160	DPOK	Johann Stadlander	190, 160			
DFON	Nachtigall	190, 160	DPOL	Konsul Dubbers	190, 169.01, 180.72, 153.06			
DFOO	John Mann	190, 180.72, 169.1, 153.06	DPOM	Skoepenbank	190, 160			
DFOP	Dortmund	190, 160	DPON	Fritz Homann	190, 160			
DFOQ	Flensburg	190, 180.72, 169.01, 153.06	DPOO	Nordland	190, 160			
DFOR	Mariene	190, 160	DPOP	Oscar Neynaber	190, 160			
DFOS	Hauseat	190, 160	DPOQ	Spica	190, 160			
DFOT	Neufundland	190, 160	DPOR	Heinrich Buerin	190, 180.72, 169.01, 153.06			
DFOU	Stubbenhuk	190, 160	DPOS	Orion	190, 180.72, 169.01, 153.06			
DFOV	Vorwärts	190, 160	DPOU	Julius Pickenpaek	190, 180.72, 169.01, 153.06			
DFOW	Edward	190, 160	DPOV	Schleswig	190, 180.72, 169.01, 153.06			
DFOX	Amtguchitrat	190, 160	DPOW	Hamburg	190, 180.72, 169.01, 153.06			
DFOY	Marie Richardson	190, 160	DPOX	August Wriedo	190, 160			
DFOZ	Carsten Rehler	190, 160	DPOY	Elsie Schroder	190, 160			
DFP	Nauen	37.89	DPOZ	Fritz Schroder	190, 160			
			DPOA	Kap Kanin	190, 180.72, 169.01, 153.06			



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
FZT	Tananarive, Madagascar	39.165, 24.45, 16.76	GFBB	Barrabool	36.5, 26.59, 17.81	GMBJ	Empress of Britian	36.5, 26.59, 17.81, 71.9, 22.62, 67.76, 24.33
FZU	Tananarive, Madagascar	59.76, 20.34, 13.44, 59.76	GFBO	Bendigo	36.5, 26.59, 17.81	GMBL	Ariguani	36.5, 26.59, 17.81
FZV	Madagascar, Africa	12.2, 15.4, 34.8, 34.48, 15.09, 12.24	GFBD	Andora	36.5, 26.59, 17.81	GMBN	Caesare	36.5, 26.59, 17.81
FZW	Tananarive, Madagascar	39.215, 24.435, 13.42, 44.71, 30.5	GFBE	British Colonel	36.5, 26.59, 17.81	GME	Grimsby	16.42
FZX	Tananarive, Madagascar		GFBF	Comorin	36.5, 26.59, 17.81	GMF	Grimsby	15.95
F8BZ	France	19.50	GFBG	Felixstowe		GMG	Guernsey	197
F8KZ	Constanten, Algiers	42.80	GFBH	Worthy Down		GMH	Malin Head	
F8MC	Morocco	43.60	GFBI	Aldergrove		GMI	Grimsby	16.216
			GFBJ	Ismailion, Egypt	40.32	GMJ	Bodmin	16.146
			GFBK	London	22.22	GMJC	Sheringham	192.3, 151.5, 125
			GFBL	Otranto	36.49, 26.59, 17.81	GMJD	Belgenland	36.54, 26.59
			GFBM	Calahot		GMLE	Empress of France	36.5, 26.59
			GFBN	Mountbatten	46.15	GMML	Empress of Japan	36.24
				Mountbatten	190	GMMS	Triona	36
				Pole Star	36.5, 26.59, 17.81	GMP	Reina del Pacifico	36.5, 26.59, 17.81
				Windsor Castle	36, 27	GMPV	Bayruper	
				Polar Chief		GMQN	Accia	35.6, 26.59, 17.81
				Vandyck		GMSB	Apapa	36.5, 26.59, 17.81
				Sealand, Wales		GMTC	Almeida Star	
				Oxfordness Light House		GMTN	Shropshire	36.5, 26.59
				British Somaliland	22.22	GMB		
				British Somaliland	44.48	GNF	North Foreland	109.80
				Flowdown		GNH	Grimsby	25.895
				Orama	36.5	GNJ	Ile of Wight	
				Empress of Australia	36.5, 17.8	GNJR	Migrant	
				Oncoravon		GNJT	Laurentic	36.5, 26.59
				British Grenadrie	36.5, 26.59, 23.75, 17.81	GNP	Thomas Bartlett	150
						GNR	Orford	36.5, 26.59, 17.81
						GNR	Dutchess of Athol	36.5, 26.59
						GNV	Dutchess of Bedford	36.5, 26.59
						GNV	Newharen	150
						GNWR	Dromore Castle	75, 22.4
						GNXP	Niagara	37.5, 17.85
						GNZC	Margaret Rose	177.5
						GOE	Grimsby	31.66
						GOF	Grimsby	29.40
						GOI	Grimsby	34.168
						GPK	Portpatrick, Scotland	
						GPLY	Achimota	36.5, 26.59, 17.81
						GPO	Parkiston Quay	
						GOOK	Queen Victoria Lifeboat	197
						GOY	Ingoma	36.5, 26.59, 17.81
						GONS	New Sevilla	
						GOVP	Lancashire	
						GOWF	Lady Astley	
						GOWP	Tewera	A1-2-3, 150
						GQXK	Tekoura	A1-2-3, 150
						GREN	Grenada, B. W. I.	
						GRL	Fishguard	
						GRLJ	Georgic	36.54, 26.35, 17.06
						GRN	Antrim, Ireland	
						GRNW	Corfa	36.5, 26.59, 17.81
						GRNX	Carthage	36.5, 26.59, 17.81
						GRP	Strathaven	36.5, 26.59, 17.81
						GRQ	Dollis Hill	
						GRSX	Strathaird	36.49, 26.59, 17.81
						GRTN	Lifeboat Wm. C. Kate	43, 190, 180
						GRWC	Dilimer	43, 177.5
						GRWD	Bass Rock	177.5
						GRWF	Pomona	177.5
						GRWJ	Stapel	177.5
						GRWK	Thomas Haukins	177.5
						GRWL	Wm. Caldwell	177.5
						GRWN	Emu	177.5
						GRWS	Tholland	26.59, 17.81, 36.54, 38.54, 26.35, 23.42, 17.09
						GRXC	Erin	190
						GSDT	Normandy	
						GSL	Antrins	
						GSMB	Crappove	
						GSMO	M. C. Leonie	
						GSRJ	Arctic Prince	36.5, 26.59, 17.81
						GSRL	Vacuoline	
						GSRR	Staffordshire	36.54, 26.59
						GSVR	Dutchess of Richmond	36.5, 26.59
						GSW	Stonehaven, Scotland	
						GSXW	Tehama	150
						GSXV	Rangiliki	38
						GSYN	Dutchess of York	36.5, 26.59
						GSZN	Rangitata	36.5, 26.59, 17.81
						GTCV	Laurelwood	
						GTIC	Thomas Leeds	81.52
						GTID	Tally Ho	81.52
						GTIL	Daily Mail	81.52
						GTIJ	Daily Mirror	177.5
						GTIK	Daily Herald	177.5
						GTIM	Daily Express	177.5
						GTIN	Stender	177.5
						GTIP	Keyes	177.5
						GTIQ	S. Sebastian	177.5
						GTIR	Ferrol	177.5
						GTIS	Frascate	177.5
						GTIV	Saurian	177.5
						GTIW	Wm. Humphries	177.5
						GTLX	Arthur Cavanogh	177
						GTLY	William Downes	177.5
						GTLZ	Michael Griffith	177.5
						GTM	Normandy	177.5
						GTM	Gordon Richards	177.5
						GTMF	Kuroki	177.5
						GTMJ	Caldy	177.5
						GTMK	Seebach	177.5
						GTMP	Tracola Prince	177.5
						GTMQ	Macaco	177.5
						GTMR	Tenedor	177.5
						GTM	Charmouth	177.5
						GTMP	Tracola Prince	177.5
						GTM	Charmouth	177.5
						GTMV	Ermine	177.5
						GTMW	Kenneth McRae	177.5
						GTMX	Lily McRae	177.5
						GTM	Rivisby	177.5
						GTMZ	Victor	177.5

G—GREAT BRITAIN







Call Letters	Location	Wavelength (meters)
ORXB	Maris Stella	180
OSAB	Van der Goes	180
OSB1	Kikwit, Belg. Congo	35.52, 45.9, 30.65, 22.21
OSC1	Boende, Belg. Congo	34.71, 49.51, 30.41, 24.96
OSCB	Van der Weyden	180
OSD1	Kigale, Belg. Congo	47.28, 34.42, 23.43
OSDB	Costeset Bellonte	180
OSE1	Kanda-Kanda, Belg. Congo	51.68, 36.76, 23.54
OSF1	Eolo, Belg. Congo	50, 36.9, 24.27
OSFB	Wimped	180
OSG1	Lulvabourg, Belg. Congo	52.60, 31.49, 22.81
OSGB	Irene Joseph	180
OSH	Gule, Belg. Congo	50.42, 34.30, 24.14
OSI1	Gale, Belg. Congo	32.94, 50.42
OSIA	Q' Avenue	36, 24, 17
OSIB	Irma Alice	180
OSJB	Oceanic	180
OSK1	Kitega, Belg. Congo	44.02, 37.95, 23.23
OSKB	Julien Marie	180
OSL	Leopoldville, Belg. Congo	25.22
OSLB	General Liman	180
OSMB	Maurice Roger	180
OSNB	Franz Elsa	180
OSPB	Philomina	180
OSQB	Maria Johanna	180
OSRB	Roger Blone	180
OSS	Stanleyville, Belg. Congo	22.65
OST	Ostend	180
OSUB	Roger Louise	180
OSV	Stanleyville, Belg. Congo	22.65
OSVB	Onder Ons	180
OSWB	Wilde Roos	180
OSYB	Suzanne	180
OSZA	Lindbergh	176.5
OTAB	Annie Madeleine	180
OTC	Coquilhatville, Belg. Congo	45.21
OTCA	Stephanie	180
OTGB	Gabrielle Lucien	180
OTH	Elizabethville, Belg. Congo	46.7, 46.19
OTHB	De Hoop	180
OTJB	Brenghel	180
OTL	Leopoldville, Belg. Congo	43.74
OTLB	Leontine	180
OTNB	Patria	180
OTPY	Roekall	180
OTRB	Stanleyville, Belg. Congo	43.10
OTS	Wandelaar	180.1
OTV	Rust Roest	176.5
OTVB	Vierge Marie	180
OTW	Westhinder	180.1
OTXB	Hubertine Madeleine	180
OTZA	Zinnia	180

**OUA-OZZ DENMARK**

O XAF	Mangen	185
O XAS	Prinsesse Alexandrine	151
O XB	Blaavaad	184.9
O XBE	Stjerneborg	52, 34
O XBF	Merci	182
O XBS	Kalundborg	151
O XC	Ringsted	182
O XCD	Tacoma	180
O XCF	Irma	200, 150
O XCS	Christian IX	151
O XDE	Nordfarer	52, 24
O XDF	Ella	200, 150
O XDS	Danmark	151
O XEF	Platissa	185
O XFF	Vega	185
O XFS	Freza	151
O XGE	Nordbornholm	200, 150
O XGF	Agda	185
O XGS	Nyborg	151
O XHF	Chicago	185
O XHS	Heimdal	151
O XIF	Immanuel	185
O XJF	Maekenzie	185
O XKF	West Bound	185
O XKS	Korsor	151
O XL	Skambelak	52.402
O XLF	Antna	185
O XMF	Vestkysten	185
O XN	Thyboron	180
O XNF	Esbjerg	185
O XNS	Niels Holst	151
O XOB	Bergenhus	182, 178
O XOS	Odin	151
O XPB	Trondhjem	178
O XPS	Prins Christian	151
O XO	Lyugby	31.5
O XQD	Aalberghus	55, 22.4
O XQF	Freja	185
O XR	Skambelak	23.238
O XRE	Olympia	70, 25
O XSE	P. N. Damm	70, 25
O XSS	Storebalt	187.038
O XT	Skambelak	34.90
O XU	Zealand	75, 22.4
O XUA	Sleipner	75, 22.4
O XV	Shambelak	70, 25
O XVE	Amerika	70, 25
O XVS	Kjobenhavn	151
O XW	Zealand	53.14, 52.40
O XWD	Cimbria	178
O XWE	Guldborg	70, 25
O XWB	Nordpol	70, 25
O XXE	Otto Peterson	70, 25
O XY	Lyngby	19.00, 31.60
O XVD	Dronning Alex	75, 22.4
O XVE	Nordkop	80, 30
O XZ	Zealand	30.45, 36.101

Call Letters	Location	Wavelength (meters)
O XZE	Bornholm	178
O YA	Eskimonaes	200, 150, 100, 17
O YAE	Nordborg	80, 30
O YB	Ellaoe	200, 150, 100, 17
O YBA	Aaros	75, 22.4
O YD	Julianehaab	39, 630
O YED	Kjohenkaren	75, 22.4
O YF	Julianehaab	32, 223
O YFD	Holdenghus	178
O YGE	Flynderborg	60, 20
O YIE	E. M. Dalgas	70, 25
O YK	Zealand	38, 911
O YOD	Odense	178
O YOE	Bornholm	50, 30
O YP	Thorshava	38, 91, 36, 23
O YPD	Olin	178
O YQE	Sonja	70, 25
O YRE	Aase Marsk	80, 30
O YSE	Nordhavet	80, 30
O ZAE	Chr. Sass	70, 25
O ZBB	Hellig Olav	75, 22.4
O ZBE	Nell Marsk	70, 25
O ZCB	Oscar II	70, 25
O ZCE	Dana	70, 25
O ZDB	United States	70, 25
O ZDD	Ydun	178
O ZEB	Nicoline Marsk	70, 25
O ZED	C. F. Tietjen	72, 32, 178
O ZFD	Ostbornholm	178
O ZFE	Europa	70, 25
O ZGO	Columbia	36.45
O ZHB	Viking	180
O ZHE	TH. Stauning	150
O ZK	Faroe Islands	180
O ZLB	Frederik III	75, 22.4
O ZOC	Oregon	75, 22.4
O ZOE	Danmark	70, 25
O ZPE	Arria	70, 20
O ZRE	Peter Marsk	65, 28
O ZTMK	Copenhagen	32.00
O ZTRG	Copenhagen	31.56, 42.12

**PAA-PIZ NETHERLANDS**

PAA	Amsterdam	47.92, 34.76, 24, 71.38
PACE	Arend	36, 24
PACM	Van Galen	36, 24
PACN	Nitte de With	36, 24
PACP	Van Nes	36, 24
PAHA	Stoomloodsboot 21	187.5, 198.3
PAHB	Stoomloodsboot 22	187.5, 198.3
PBI	Rotterdam	96
PBB	The Hague	97.4
PBB	Groningen	98
PBB	Rotterdam	98
PB9	Till	187.5
PBA	Amsterdam	98.3, 32, 187.5
PBB	Maas	185.8, 187
PCC	Noordhinder	185.8, 187.5
PCD	Haaks	185.8, 187.5
PCE	Terschellingbank	185.8, 187.5
PCG	Kootwijk	53, 35.3, 23.5, 22.8
PCH	Scheveningen	28.8, 16.3
PCK	Kootwijk	38.8, 18.4
PCL	Kootwijk	27.94, 16.17
PCM	Kootwijk	20
PCNZ	Aludra	16.009
PCO	Kootwijk	27.3, 16.6
PCP	Kootwijk	20.6
PCQ	Kootwijk	16.60, 28.03, 15.886
PCR	Kootwijk	173, 157
PCS	Kootwijk	40.8, 20.69
PCSF	Antje	3 3 9 3 6, 21.938
PCT	Kootwijk	19.967, 1 5 9 8 7, 13.393, 44.46
PCU	Gravenhage	38.3, 16.85
PCV	Kootwijk	14.65
PCW	Kootwijk	36, 24
PCX	Balveren	32.609, 16.043
PDI2	Kootwijk	173, 157
PDBL	Beije	28.82, 28.8
PDK	Kootwijk	36, 24
PDKD	Christian Huygens	16.82, 14.55, 38.78
PDL	Kootwijk	36, 24
PDLA	Columbia	16.182, 38.63, 38.68
PDM	Kootwijk	36, 24
PDMM	Costa Rica	36.7, 36.67
PDO	Kootwijk	36, 24
PDOO	Dempo	32.48, 32.47
PDP	Kootwijk	27.3, 27.28
PDQ	Kootwijk	28.038
PDR	Kootwijk	27.94
PDS	Kootwijk	40.8
PDT	Kootwijk	24.89, 24.88, 24.87
PDV	Kootwijk	50.68
PDW	Kootwijk	32.60
PDX	Kootwijk	36, 24
PECC	Flandria	36, 24
PEHI	Gelria	36, 24
PEWD	Indrapoero	36, 24
PEWZ	Insulinde	36, 24
PEZP	Jan Pieterszoon	36, 24
PFA	Kootwijk	16.82
PFB	Kootwijk	16.47
PFC	Kootwijk	16.25
PFD	Kootwijk	18.35, 18.34
PFDM	Kootwijk	36, 24
PFE	Johan de Witt	16.24, 16.23
PFEV	Kootwijk	36, 24
PFF	J. Van Oldenbarneveld	14.40, 14.402
PFKW	Kootwijk	36, 24
PFWA	Koninginder Netherland	36, 24
PFA	Marinx V. St. Aldegonde	36, 24
PGA	Kootwijk	38.314, 38.29, 38.27

Call Letters	Location	Wavelength (meters)
PGB	Kootwijk	36.787
PGC	Kootwijk	32.02, 32
PGD	Kootwijk	49.75, 49.83
PGDU	Neiltje Jacoba	180
PGOB	Orandia	36, 24
PGPJ	Patria	36, 24
PGSY	Pieter Cornelison	36, 24
PGVC	Pres. Jan Leis	180
PGVD	Pres. J. V. Wierdama	180
PGVH	Prins der Nederlanden	36, 24
PGVL	Prinses Juliana	157
PGVQ	Prinses Juliana	36, 24
PHEG	Rotterdam	36, 24
PHMD	Sibajak	157
PHMH	Siberie	36, 24
PHMS	Simon Boleiae	16.88
PHO	Huizen	36, 24
PHOB	Slamat	36, 24
PHSN	Statindam	197
PHWP	Tarana	173, 157
PHXF	Telene	36, 24
PHZU	Tjermai	187.5, 185.8
PIA	Kijkduin	187, 185.8
PIB	Brandaris	187.5
PIC	Scheveningen	36, 24
PIFA	Venezuela	36, 24
PIXB	Zeeindia	36, 24

**PJA-PJZ CURACAO (OUTCH WEST INIOES)**

PJA	Aruba	72, 50, 35.1, 32.5
PJC	Curacao	44, 33.6
PJO	Curacao	36, 44.1, 35
PJE	S. Eustatius Curacao	53.5, 42.5
PJF	Saba Curacao	53.5, 42.5
PJN	Paramaribo	39, 33.6
PJQ	Curacao	21.9
PJU	Curacao	22
PJW	Curacao	42, 39, 31, 25.6, 24.6, 22, 21.9, 18.3, 16.7, 16.25
PJZ	Curacao	22, 21.9, 18.3, 16.7, 16.25

**PKA-POZ DUTCH EAST INIOES**

PKA	Sabang Ile de Weh	57.36, 36.02, 36.01, 23.6, 23, 20.62
PKB	Padang	21.5
PKB	Padang	32.89, 34.4
PKC	Pontianak	37.65, 21.98
PKCO	Dreg I	80
PKCE	Dreg II	80
PKCF	Orion	80
PKD	Polkung	22.94, 32.89
PKE	Amboina	29.8, 23.7, 22.5
PKEG	Houtman	36, 24
PKF	Palembang	34.4, 24.45
PKG	Borneo	28.84, 22.2, 57.69
PKH	Soerabaja	47, 53.67
PKI	Bengkalis Is.	
PKK	New Guinea	39.40, 51.96
PKM	Rengat Sumatra	39.06, 35.97, 22.71, 22.32
PKV	Makasser	22.32
PKW	Sumatra	44.52
PKX	Malabar	70
PKY	Tomohon Celebes	49.7
PK3AN	Sourabaya	
PLA	Malabar Java	18.8, 14.85
PLE	Tjimindi	15.93, 15.74
PLF	Malabar	16.81
PLG	Malabar	18.8, 28.12, 28.09, 18.82
PLH	Malabar	19.4
PLI	Malabar	19.93, 19.92
PLJ	Malabar	20.5
PLK	Malabar	20.7
PLL	Bandoeng	22.06
PLM	Malabar	24.46
PLN	Bandoeng	27.75, 25.9
PLO	Bandoeng	26.2
PLP	Malabar	27.3
PLQ	Malabar	28.09, 28.12, 28.06
PLR	Bandoeng	28.82, 27.88, 28.22
PLS	Tjillin	28.94
PLU	Malabar	30.487
PLV	Malabar	31.87, 31.86, 31.9
PLW	Bandoeng	36.92
PLX	Malabar	11.44
PLY	Malabar	12.6
PLZ	Malabar	13.04
PMA	Malabar	15.54, 15.48
PMB	Malabar	14.59
PMC	Tjimindi	16.56, 16.53
PMD	Malabar	37.5, 37.48
PME	Malabar	38.11
PMF	Malabar	39.93
PMG	Malabar	40.22, 40.18
PMH	Malabar	44.64
PMI	Tjillin	51
PMW	Riouw Is.	17.02, 40.76, 32.12
PNX	Degeel	24.02, 26.95
POV	Bintang Is.	100, 50.7
POW	Sumatra	100, 70.6, 50.7
POZ	Beraoe Borneo	37.68

**PPA-PYZ BRAZIL**

PPD	Recife	75, 34.88, 34.48, 83.4
PPE	Rio de Janeiro	34.4
PPG	Rio de Janeiro	83.3, 75, 34.88, 34.48
PPH	Sepetiba	25.146
PPI	Fernambuco	75, 34.88, 34.48, 83.4
PPK	Porto Alegre	75, 34.88, 34.48, 83.4
PPM	Sepetiba	29.06
PPN	Natal Norte	75, 34.88, 34.48, 83.4

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PPO	Olinda	62.25, 54.35, 27.21	PQYB	Araguaya	36.85	PRGA	Avendia Rio de Janeiro	83.4
PPP	Pelotas	75, 34.88, 34.48, 83.4	PQYC	Araguaya	27.829	PRGB	Bahia	83
PPU	Sepetiba	15.875	PQYD	Araguaya	19.88	PRGC	Bahia	83.4
PPV	Sepetiba	21.818	PQZ	Soure, Para.	94.8	PRGD	Florianopolis	83.4, 75, 35, 34.48
PPW	Sepetiba	27.82, 25.15	PQZA	Soure	42.978	PRGI	Fernando de Noronha	83.4
PPX	Sepetiba	14.47, 29.06, 43.59	PQZB	Soure	34.92	PRGK	Porto Alegre	83.3
PPX2	Sepetiba	43	PQZC	Soure	19.51	PRGM	Maceio	83.4
PPZ	Recife	16.515	PRA	Porto Alegre	61.86	PRGN	Natal, Norte	83.4
PQAA	Boccado Acre	106.4	PRB	Rio de Janeiro	60.97	PRGP	Pelotas	83.4
PQAB	Boccado Acre	50.89	PRBC	Recife	160	PRGR	Recife	83.4
PQAC	Boccado Acre	34.09	PRBD	Joao Pessoa	160	PRGS	Santos	83.4
PQAD	Boccado Acre	21.731	PRBE	Campina Grande	160	PRGV	Victoria	83.4
PQB	Belem, Para.	105.7, 21.71, 29, 32.86,	PRBF	North Natal	160	PRH	Fortaleza	27.22
PQBA	Belem Para	56.39	PRBH	Joao Pessoa	70.1	PRI	Iguassu	62.12
PQBB	Belem Para	43.73	PRBI	Campina Grande	70.1	PRIA	Iguassu	76
PQBC	Belem Para	37.593	PRBJ	Recife	70.1	PRIB	Iguassu	33.76
PQBD	Belem Para	35	PRBK	Rio Branco	70.1	PRIC	Iguassu	18.99
PQBE	Belem Para	32.858	PEBL	Limoeiro	70.1	PRID	Iguassu	89.68
PQBF	Belem Para	28.99	PRBM	Caruaru	70.1	PRIE	Cachoeira	86.8
PQBG	Belem Para	27.27	PRBN	Granhums	70.1	PRIF	Nietheroy	61.09
PQBH	Belem Para	21.708	PRBO	Rio de Janeiro	170	PRIG	Nietheroy	39.61
PQCA	Cruzeiro	105.3	PRBP	Rio de Janeiro	170	PRIH	Nietheroy	27.397
PQCB	Cruzeiro	21.69	PRBQ	Recife	63.02	PRII	Nietheroy	22.03
PQCC	Cruzeiro	20.43	PRBR	Seria Grande	63.02	PRIJ	Recife	15.564
PQD	Teffe	104.9	PRBS	Rio de Janeiro	27.3	PRIK	Recife	14.45
PQDA	Teffe	37.45	PRBT	Porto Alegre	28.45	PRIL	Cachoeira	55.3
PQDB	Teffe	24.732	PRBU	Belem	28.45	PRIM	Cachoeira	32.68
PQDC	Teffe	21.868	PRBV	Campina Grande	80	PRIN	Cachoeira	24.54
PQE	Maues	104.6	PRBW	Recife	80	PRIO	S. Paulo	140.1
PQEA	Maues	50.406	PRBX	Natal Norte	80	PRIP	S. Paulo	43.041
PQEB	Maues	38.496	PRBY	S. Paulo	33	PRIQ	S. Paulo	37.5
PQEC	Maues	33.076	PRBZ	S. Vicente	33	PRIR	S. Paulo	33.78
PQED	Maues	21.606	PRC	Rio de Janeiro	54.05	PRIS	S. Paulo	27.78
PQFB	Joao Priseoa	104.2	PRCA	Corumba	105.8	PRIT	S. Paulo	22.935
PQFC	Joao Pessoa	21.567	PRCB	Corumba	42.92	PRIU	Recife	44.31
PQG	S. Gabriel Amazonas	103.8	PRCC	Corumba	23.37	PRIV	Recife	43.103
PQGA	S. Gabriel	43.988	PRCD	Porto Alegre	44.64	PRIW	Recife	31.03
PQGB	S. Gabriel	31.12	PRCE	Porto Alegre	29.296	PRIX	Recife	27.6
PQGC	S. Gabriel	21.51	PRCF	Porto Alegre	23.36	PRIZ	Recife	27.6
PQH	Humayta	103.5	PRCG	Porto Alegre	14.59	PRJ	Recife	22.97
PQHA	Humayta	50.2	PRCH	Porto Alegre	149.3	PRJ	Theresina	54.25
PQHB	Humayta	38.241	PRCI	Rio de Janeiro	147.8	PRJA	Rio de Janeiro	75
PQI	Beuna Vista	174	PRCJ	Rio de Janeiro	44.94	PRJB	Bauru	57.91
PQIA	Amazonas	103.1	PRCK	Rio de Janeiro	44.09	PRJE	Rio Preto	51.24
PQIB	Amazonas	37.93	PRCL	Rio de Janeiro	35.05	RFJ	Bahia	75
PQIC	Amazonas	20.82	PRCM	Rio de Janeiro	34.965	PRJH	Bahia	34.88
PQJ	Benjamin Constant	174	PRCN	Rio de Janeiro	28.45	PRJI	Bahia	34.48
PQJA	Minas Geraes	102.7	PRCO	Rio de Janeiro	25	PRJK	Caravellas	75
PQJB	Minas Geraes	37.807	PRCP	Rio de Janeiro	22.59	PRJM	Caravellas	34.88
PQJC	Minas Geraes	20.804	PRCQ	Rio de Janeiro	22	PRJN	Caravellas	34.48
PQK	Maraba	102.24	PRCR	Rio de Janeiro	21.645	PRJO	Rio de Janeiro	34.88
PQKA	Maraba	38	PRCS	Rio de Janeiro	21.24	PRJQ	Fernando de Noronha	75
PQKB	Maraba	37.77	PRCT	Rio de Janeiro	20.006	PRJS	Fernando de Noronha	34.88
PQKC	Maraba	20.768	PRCU	Rio de Janeiro	19.48	PRJT	Fernando de Noronha	34.48
PQKL	Labrea	101.7	PRCV	Rio de Janeiro	19.32	PRJU	Rio de Janeiro	75
PQLC	Labrea	37.735	PRCW	Rio de Janeiro	15.457	PRJW	Florianopolis	34.88
PQLD	Labrea	20.71	PRCX	Rio de Janeiro	14.23	PRJX	Florianopolis	34.48
PQLE	Labrea	20.134	PRCY	Rio de Janeiro	62.56	PRJY	Florianopolis	27.13
PQM	Manaos	100.5	PRCZ	Gayaz	33.04	PRK	Florianopolis	75
PQMA	Manaos	51.107	PRD	Rio de Janeiro	36.10	PRKA	Maceio	34.88
PQMB	Manaos	42.887	PRDA	Fortaleza	44.09	PRKB	Maceio	34.48
PQMC	Manaos	37.57	PRDB	Fortaleza	27.9	PRKD	Maceio	34.48
PQMD	Manaos	28.195	PRDC	Fortaleza	23.264	PRKE	Natal Norte	75
PQME	Manaos	20.68	PRDD	Fortaleza	147	PRKG	Natal Norte	34.88
PQMF	Manaos	14.49	PRDF	Paranagua	43.96	PRKH	Natal Norte	34.48
PQMG	Manaos	14.39	PRDG	Paranagua	31.712	PRKI	Santos	75
PQNA	Senna	99.67	PRDH	Paranagua	23.17	PRKK	Santos	34.88
PQNB	Senna	44.28	PRDI	Paranagua	145.6	PRKL	Santos	34.48
PQNC	Senna	37.45	PRDJ	Bello Horizonte	43.77	PRKM	Pelotas	75
PQND	Senna	20.63	PRDK	Bello Horizonte	32.28	PRKO	Pelotas	34.88
PQO	Aleoabaca	160, 99.35, 37.38,	PRDL	Bello Horizonte	28.638	PRKP	Pelotas	34.48
PQOA	Aleoabaca	160, 20.55	PRDM	Maceio	30.87	PRKQ	Porto Alegre	75
PQOB	Aleoabaca	99.34	PRDN	Natal, Norte	24.74	PRKS	Porto Alegre	34.88
PQOC	Aleoabaca	37.38	PRDO	Mossoro	43.509	PRKT	Porto Alegre	34.48
PQOD	Aleoabaca	37.24	PRDP	Mossoro	34	PRKU	Victoria	75
PQOE	Aleoabaca	20.55	PRDQ	Mossoro	23.09	PRKW	Recife	75
PQP	S. Paulo de Olivenca	99.02	PRDR	Mossoro	143.8	PRKY	Recife	34.88
PQPA	S. Paulo de Olivenca	45.045	PRDS	Natal, Norte	43.42	PRKZ	Recife	34.48
PQPB	S. Paulo de Olivenca	37.29	PRDT	Natal, Norte	39.3	PRL	Victoria	61.98
PQPC	S. Paulo de Olivenca	20.478	PRDU	Natal, Norte	38.12	PRLA	Sepetiba	25.93
PQPD	Livramento	86.09	PRDV	Natal, Norte	34	PRLB	Sao Paulo	56.0
PQPE	Livramento	32.19	PRDW	Natal, Norte	28.50	PRLC	S. Paulo	37.735
PQPF	Livramento	24.71	PRDX	Natal, Norte	23.04	PRLD	S. Paulo	28.195
PQPH	Campinas	85.47	PRDY	Natal, Norte	143.9	PRLF	Sepetiba	51.87
PQPI	Campinas	32.05	PRDZ	Bello Horizonte	144.9	PRLG	Sepetiba	25.93
PQPJ	Campinas	24.77	PRE	Rio de Janeiro	27.08	PRLK	Nietheroy	133.4
PQQ	Caruary	98.69, 45.98, 37.24,	PREA	Araguaya	38.47	PRLL	Recife	14.09
		20.43	PREB	Duartina	38.71	PRLM	Bahia	44.12
PQR	Rio Branco Acre	98.37	PREC	Sao Paulo	38.71	PRLN	Bahia	30.09
PQRA	Rio Branco Acre	37.15	PRED	Dios Corregos	38.41	PRLO	Bahia	25.8
PQRB	Rio Branco Acre		PREE	San Carlos		PRLP	Bahia	23.31
PQRC	Rio Branco Acre	20.33	PREF	S. Carlos	38.41	PRLQ	Bahia	148.5
PQRD	Rio Branco Acre	14.53	PREG	Garcia	38.57	PRLR	Lages	44.71
PQSA	Santarem	97.7	PREH	Jahu		PRLS	Lages	43.668
PQSB	Santarem	40.677	PREI	Pederneiras		PRLT	Lages	25.168
PQSC	Santarem	22.404	PREJ	Campinas	38.45	PRLU	Lages	144.2
PQSD	Santarem	20.29	PREK	Bauru		PRLV	S. Francisco	44.71
PQTA	Tarauaca	97.4	PREL	Rio Clara		PRLW	S. Francisco	43.2
PQTB	Tarauaca	27.57	PREM	Marlia	38.87	PRLX	S. Francisco	23.01
PQTC	Tarauaca	20.249	PRF	Fortaleza	62.37	PRLY	S. Francisco	142.2
PQU	Itaituba	96.64	PRFA	Florianopolis	44.71	PRM	Victoria	54.15
PQUA	Itaituba Para	43.509	PRFB	Florianopolis	44.06	PRMA	Rio de Janeiro	50.4
PQUB	Itaituba Para	36.88	PRFC	Florianopolis	30.89	PRMB	Barbaena	50.2
PQUC	Itaituba Para	20.08	PRFD	Florianopolis	28	PRMC	Carangola	50.2
PQVA	Porto Velko	44.49	PRFE	Florianopolis	23.22	PRMD	Diamantina	50.2
PQVB	Porto Velko	32.12	PRFF	Florianopolis	146.3	PRME	Jamuarua	50.4
PQVC	Porto Velko	20.04	PRFG	S. Gabriel	76.8	PRMF	S. Sebastiao	50.4
PQW	Altamira	96.02	PRFH	Corumba	22.87	PRMG	Uberaba	50.335
PQWA	Altamira Para	38	PRFI	Corumba	139.6	PRMH	Bello Horizonte	50.5
PQWB	Altamira Para	19.98	PRFJ	Pelotas		PRMI	Pirapora	50.5
PQXA	Xapury	95.69	PRFK	Rio de Janeiro	40.84, 38.12, 26.8	PRMJ	Juiz do Fora	50.5
PQXB	Xapury	22.885	PRFL	Livramento	76.8	PRMK	Pocos de Caldas	50.5
PQXC	Xapury	19.907	PRFN	Rio de Janeiro	29.01	PRML	Paracato	50.5
PQY	Araguaya	95.38	PRFO	Rio de Janeiro	27.78	PRMM	Oliveria	50.50
PQYA	Araguaya	38	PRG	Fortaleza	54.446	PRMP	Bello Horizonte	50.7

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PRMW	Bello Horizonte	50	PRTX	Porto til.	32.22, 32.12, 32	PTBA	Rio de Janeiro	63.69
PAMX	Rio de Janeiro	50.167	PRTY	Portatil.	32.22, 32.12, 32	PTBB	Rio de Janeiro	54.74
PRMZ	Pocos de Caldos	50.335	PRTZ	Portatil.	32.22, 32.12, 32	PTBD	Rio de Janeiro	63.56
PRN	Victoria	27.1	PRU	Florianopolis	61.35	PTBE	Rio de Janeiro	57.81
PRNA	Dom Pedro (Rio)	67.27	PRUA	Aracatuba	33.84	PTBF	Rio de Janeiro	63.3
PRNB	Bello Horizonte	37.08	PRUB	Bauru	33.84	PTBH	Rio de Janeiro	59.17
PRNC	Coryntho	66.96	PRUC	Sao Paulo	33.84	PTBJ	Rio de Janeiro	63.16
PRND	Sao Paulo	66.82	PRUD	Boutucatu	33.84	PTBK	Rio de Janeiro	58.94
PRNE	Carro 18A	36.9	PRUE	Pres. of Brazil		PTBL	Santos	58.82
PRNF	Carro 20A	36.9	PRUF	Ribeirao	33.84	PTBM	Rio de Janeiro	63.02
PRNG	Portatil.	36.9	PRUG	Sao Paulo	33.84	PTBN	Rio de Janeiro	59.76
PRNH	Portatil.	36.9	PRUH	S. Paulo	33.84	PTBO	Itajuba	59.65
PRNI	Ibia	40.63	PRUI	Sao Paulo	33.84	PTBP	Ipamerly Goyaz	62.89
PRNJ	S. Joao'd'El Rey	40.99	PRUJ	Rio Preto	33.84	PTBQ	Ipamerly Goyaz	25.696
PRNK	Barra do Piraby	36.83	PRUK	Araraquara	33.84	PTBR	Joao Pessoa	26.304
PRNL	Bello Horizonte	38.95, 36.74	PRUL	Itarare	33.84, 33.87, 33.04	PTBS	S. Paulo	62.77
PRNM	Montes Claros	36.74	PRUM	Oruzero	33.84	PTBT	S. Paulo	60.37
PRNO	S. Paulo Norte	37.17	PRUN	Aracatuba	33.67	PTBU	Cacapara	60.12
PRNR	Ribeirao Vermelho	40.84	PRUO	Bauru, Sao Paulo	33.67	PTBV	Peterpolis	62.63
PRNS	Carro 9A	36.9	PRUP	S. Paulo	33.67	PTBX	Rio de Janeiro	60.5
PRNT	Lafayette	36.79	PRUQ	Botucatu	33.67	PTBY	Rio de Janeiro	25.66
PRNU	Carro 10A	36.9	PRUR	President of Brazil	33.67	PTBZ	Cacapara	25.706
PRNV	Coryntho	65.65	PRUS	Ribeirao Preto	33.67	PTC	S. Cruz (Rio)	75.19
PRNW	Coryntho	37.27	PRUT	S. Paulo	33.67	PTCA	Bello Horizonte	59.88
PRNX	S. Paulo	36.74	PRUU	Assis, Sao Paulo	33.67	PTCB	Bello Horizonte	25.72
PRNY	Army	36.97	PRUV	Sao Paulo	33.67	PTCD	Bella Vista	25.68
PRNZ	Rio de Janeiro	36.6	PRUX	Rio Preto	33.67	PTCE	Bella Vista	16.17
PRO	Olindo	62.24	PRUY	Araraquara	33.67	PTCG	Cuyaba	59.40
PROA	Rio de Janeiro	27.52	PRUZ	Itarare, Sao Paulo	33.67	PTCH	Cuaba	25.84
PROB	Itajaby	27.5	PRV	Cruzeiro	33.67	PTCI	Curityba	59.29
PROC	Recife	27.5	PRVA	Florianopolis	53.86	PTCJ	Curityba	25.906
PROD	Rio de Janeiro	35	PRVB	Aracatuba	33.04	PTCL	Corumba	59.06
PROF	Rio de Janeiro	39.3	PRVC	Bauru, Sao Paulo	33.04	PTCM	Corumba	25.96
PROG	Laguna	64.67	PRVD	S. Paulo	33.04	PTCO	Bahia	58.6
PROI	Ibia	40.63	PRVE	Botucatu	33.04	PTCP	Bahia	22.06
PROJ	S. Joao'd'El Rey	40.98	PRVF	Sao Paulo	33.04	PTCQ	Bahia	16.41
PROK	S. Joao	40.458	PRVG	Ribeirao Preto	33.04	PTCR	Recife	58.48
PROL	Bello Horizonte	38.95	PRVH	S. Paulo	33.04	PTCS	Recife	26.09
PROM	Bahia	39.38	PRVI	Assis, Sao Paulo	33.04	PTCT	Recife	16.55
PROO	Formiga	40.65	PRVJ	Sao Paulo	33.04	PTCV	Rio de Janeiro	58.37
PROQ	Bello Horizonte	36.74	PRVK	Rio Preto	33.04	PTCW	Rio de Janeiro	18.821
PROR	Ribeirao	40.84	PRVL	Araraquara	33.04	PTCX	Rio de Janeiro	14.521
PROW	Rio de Janeiro	40.47	PRVM	Itarare, Sao Paulo	33.04	PTD	Florianopolis	75
PRP	Olinda	54.35	PRW	Cruzeiro	33.04	PTDA	Victoria	58.14
PRPA	Rio de Janeiro	96.308	PRWA	Florianopolis	26.98	PTDB	Victoria	26.246
PRPB	Porto Alegre	96.318	PRWB	Taubate	52.447	PTDD	St. Luiz	57.92
PRPC	Porto Alegre	52.35	PRWC	Taubate	84.27	PTDE	S. Luiz	27.347
PRPD	Porto Alegre	34.863	PRWD	Ourem Para	80.65	PTDF	S. Luiz do Maranhao	16.74
PRPE	Rio de Janeiro	52.35	PRWE	Ourem Para	38.97	PTDG	Rio de Janeiro	55.46
PRPF	Rio de Janeiro	34.863	PRWH	Ourem Para	29.354	PTDH	Rio de Janeiro	28.329
PRPG	Rio de Janeiro	27.52	PRWJ	Parintins	80.86	PTDI	Rio de Janeiro	25.09
PRPI	Bahia	96.308	PRWK	Parintins	50.977	PTDJ	Rio de Janeiro	17.28
PRPJ	Bahia	52.35	PRWL	Parintins	28.41	PTDK	Rio de Janeiro	17.2
PRPN	Natal Norte	96.308	PRWM	Parintins	23	PTDM	Belem Para	26.3
PRPP	Parangua	96.308	PRWN	Victoria Piaui	33.48	PTDN	Belem Para	23.12
PRPQ	Parangua	52.35	PRWO	Crato Ceara	33.44	PTDO	Belem Para	17.05
PRPR	Recife	33.48	PRWP	Victoria Piaui	88.89	PTDP	Belem Para	16.92
PRPS	Santos	33.18	PRWR	Crato Ceara	18.767	PTDQ	Porto Alegre	25.99
PRPT	Santos	27.3	PRWS	Crato Ceara	88.82	PTDR	Porto Alegre	16.34
PRPJ	Santos	22.55	PRWX	Porto Esperansa	33.22	PTDS	Florianopolis	52.248
PRPY	Natal Norte	52.35	PRWY	Porto Esperansa	18.59	PTDT	Florianopolis	27.8
PRPZ	Natal Norte	34.863	PRWV	Porto Esperansa	88.10	PTDU	Florianopolis	18.945
PRQA	Natal Norte	25.66	PRWU	Curetyha	31.25	PTDV	Peterpolis	60.606
PRQB	Olinda	27.119	PRWX	Curetyha	22.82	PTDX	Juiz de Fora	27.42
PRQC	Florianopolis	33.9	PRWY	Curetyha	138.2	PTDZ	Nietheroy	27.985
PRQD	Porto Uniao	33.70	PRX	Santos	61.61	PTE	Escodia (Rio de Janeiro)	74.63
PRQE	Herval	33.17	PRYA	Santos	60.851	PTEA	Fortaleza	55.04
PRQF	Joao Pissoa	51.68	PRYB	Rio de Janeiro	33.94	PTEB	Fortaleza	27.75
PRQG	Espirito Santo	52.22	PRYC	Bahia	33.94	PTEC	Campo Grande	54.95
PRQH	Floris	30.52	PRYD	Mocangue Rio	70	PTEE	Campo Grande	27.68
PRQI	Princoza	52.35	PRYS	Rio de Janeiro	70	PTEG	Santos	25.07
PRQJ	Patos	52.46	PRZ	Santos Sao Paulo	33.94	PTEH	Sorena Sao Paulo	54.844
PRQK	Parabyha	52.04	PRZA	Santos	53.95	PTEI	Sorena Sao Paulo	27.726
PRQL	Parabyha	52.35	PRZB	Jouzerio Bahia	25.74	PTEL	S. Paulo	58.26
PRQM	Parabyha	52.22	PRZC	Joazerio Bahia	18.42	PTEM	S. Paulo	26.18
PRQN	S. Jose do Egypto	30.53	PSA	Joazerio Bahia	97.53	PTEO	Ponta Para	25.67
PRQO	Triumpho	31.12	PSABA	Marapicu	14.23	PTEP	Ponta Para	16.27
PRQP	Villa de Conceicao	52.04	PSABB	Rio de Janeiro		PTF	Fortaleza	74.25
PRQR	Salinas	62.49	PSABC	Sao Paulo		PTG	Campo Grande	74.08
PRQS	Thome	52.91	PSABD	Miami		PTH	Lorenz	73.89
PRQT	Belem Para	52.91	PSABE	Porto Alegre		PTJ	Fortaleza de S. Joao,	
PRQU	Rio de Janeiro	28.60	PSABF	Argentina			Rio de Janeiro	73.34
PRQV	Bahia	28.60	PSABI	P-BDAC			Juiz de Fora	73.18
PRRW	S. Paulo Norte	65.5	PSACB	Guantabara			Fortaleza Sage, Rio de Janeiro	73
PRRX	Belem Para	44.06	PSB	Ypiranga			S. Luiz do Maranhao	71.94
PRRY	Thome Assu	44.06	PSB	Marapicu	15.78		Parabyha	71.78
PRRS	Belem	38	PSB	Marapicu	16.09		Victoria Espirito Santo	71.61
PRRS	Rio de Janeiro	65.94	PSB	Marapicu	19.907		S. Paulo	
PRRV	Boa Vista	38	PSB	Marapicu	20.08		Quartel General,	
PRRS	Salinas	54.545	PSB	Marapicu	20.43		Rio de Janeiro	71.27
PRSA	Porto Alegre	97.4	PSB	Marapicu	27.881		Recife	71.10
PRSB	Bahia	53.47	PSB	Marapicu	29.354		Bahia	70.93
PRSC	Bahia	33.73	PSB	Marapicu	29.64		Porto Alegre	70.1
PRSD	Bahia	24.05	PSB	Marapicu	31.06		Bella Vista	70.1
PRSE	Porto Alegre	53.47	PSB	Marapicu	36.65		Santos	68.19
PRSF	Porto Alegre	33.73	PSB	Marapicu	37.807		Villa Militar, Rio de Janeiro	69.78
PRSG	Porto Alegre	24.05	PSB	Recife	51.68		Corumba, Matto Grosso	69.66
PRSH	Belem	97.41	PSB	Sepetiba	14.39		Sande Gueria, Rio de Janeiro	69.5
PRSL	Belem Para	53.47	PSB	Sepetiba	43.59		Curetyha	69.45
PRSM	Belem Para	33.73	PSB	Sepetiba	38.56		Cuyaba	69.29
PRSN	Belem Para	24.05	PSB	Rio de Janeiro	75.57		Santos	27.06
PRSO	Rio de Janeiro	24.05	PSB	Obidos	69.12		Almirante Jaceguay	
PRSP	Rio de Janeiro	33.73	PSB	Obidos Para	59.53		Juncao	61.22
PRSQ	Rio de Janeiro	97.41	PSB	Obidos Para	25.762		Juncao	60.728
PRSR	Rio de Janeiro	63.47	PSB	Itajieba	69.05		Juncao	53.76
PRSS	Fortaleza	97.41	PSB	Palicao (Rio)	68.97		Barr, Bahia	135.8, 40.41, 22.51
PRST	Fortaleza	53.47	PSB	Bello Horizonte	68.82		Formiga	32.79, 24.5
PRSU	Fortaleza	33.73	PSB	Cacapara	68.54		Bahia	86.8, 55.3, 32.68,
PRSV	Fortaleza	24.05	PSB	Ipamerly	70.05			24.54
PRSW	Bahia	34.863	PSB	Ponta Para	67.95		Carolina	86.59, 32.57, 24.60
PRSZ	Paranagua	34.48	PSB	S. Paulo	67.88		Ilbecs	135.2, 40.27,
PRT	Salinas	27.247	PSB	Rio de Janeiro	67.7			22.32
PRTA	Victoria	34.88	PSB	Governor Petropolis	67.43		Joinville	86.34, 32.33, 24.65
PRTB	Victoria	34.48	PSB	Belem, Para.	75.38		Joao Pessoa	134.5, 40.02, 34,
								22.23
								86.10, 32.19, 24.71



Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PUN	Nietheroy	133.4, 61.11, 39.61	PWAB	Rio de Janeiro	57.03	PXT	Anathomirim	76.14
PUD	Sobral	27.32, 22.03 85.55, 39.95, 32.16, 22.116	PWAC	Rio de Janeiro	56.93	PXTL		
PUP	Passo Fundo	96.33, 84.5, 24.77	PWAD	Rio de Janeiro	52.82	PYA	Fernando de Noronha	75
PUR	Campinas	85.48, 32.05, 24.78	PWAE	Rio de Janeiro	28.68	PYAA	Aquidana	107.52
PUS	S. Borja	85.24, 31.92, 24.84	PWAF	Rio de Janeiro	28.61	PYAB	Aquidana	43.58
PVT	Santos	108.7, 39.56, 21.98	PWAG	Rio de Janeiro	28.59	PYAC	Aquidana	29.85
PVU	Theophilo	115.9, 108.3, 21.89	PWAH	Rio de Janeiro	26.408	PYAD	Aquidana	21.82
PVV	Uberaba	85, 31.85, 24.92	PWAI	Rio de Janeiro	25.146	PYAE	Pesquino	21.84
PVW	Porto Murtinbo	84.76, 38.27, 24.93	PWAJ	Rio de Janeiro	25.125	PYAF	Pesquino	18.56
PVX	Parnahyha	84.52, 52.54, 31.06	PWAK	Rio de Janeiro	17.482	PYAG	Bage	83.8
PVY	Taubati	84.28, 52.45	PWAL	Rio de Janeiro	17.41	PYAH	Bage	58.03
PVZ	Alto Uruguay	84.04, 52.35, 30.80	PWAM	Rio de Janeiro	17.341	PYAI	Bage	52.22
PVZV	Lazerato	107.9, 39.46, 34	PWB	Fernando de Noronha	53.38	PYAJ	Bage	30.67
PVA	Victor de Frietas	46.15	PWBA	Belem Para	53.57	PYAL	Campos	83.57
PVA	Brasileia	94.49	PWBB	Belem Para	50.42	PYAM	Campos	52.13
PVA	Brasileia	51.19	PWBC	Belem Para	29.175	PYAN	Campos	51.24
PVA	Brasileia	47.49	PWBD	Belem Para	26.82	PYAO	Campos	30.55
PVA	Brasileia	34.82	PWBE	Belem Para	15.78	PYAP	S. Maria Sul	82.87
PVA	Brasileia	19.47	PWC	Fernando de Noronha	50.08	PYAR	S. Maria Sul	51.81
PVA	Liheos	135.2	PWCA	Rio de Janeiro	56.5	PYAS	S. Maria Sul	29.97
PVA	Liheos	40.27	PWCB	Rio de Janeiro	48.70	PYAZ	Pesquino	87.91
PVA	Liheos	22.32	PWCC	Rio de Janeiro	25.66	PYBA	Goyaz	107.14
PVA	Joao Pissoa	134.5	PWCD	Rio de Janeiro	24.331	PYBB	Goyaz	31.15
PVA	Joao Pissoa	40.026	PWD	Fernando de Noronha	29.098	PYBC	Goyaz	21.778
PVA	Joao Pissoa	34	PWDA	Rio de Janeiro	56.29	PYBD	Uruguayana	82.64
PVA	Joao Pissoa	22.238	PWDB	Rio de Janeiro	48.82	PYBG	Uruguayana	51.88
PVA	Maceio	133.9	PWDC	Rio de Janeiro	28.517	PYBH	Uruguayana	29.79
PVA	Maceio	39.95	PWDD	Rio de Janeiro	18.09	PYBK	Cachoeiro	82.42
PVA	Maceio	22.116	PWDE	Rio de Janeiro	15.37	PYBL	Cachoeiro	29.76
PVA	Borba	94.21	PWE	Fernando de Noronha	26.69	PYBL	Cachoeiro	82.2
PVA	Borba	40.398	PWEA	Rio de Janeiro	53.47	PYBP	Jaguarao	51.51
PVA	Borba	19.43	PWEB	Rio de Janeiro	50.25	PYBQ	Jaguarao	29.73
PVA	Coary	93.46	PWEC	Rio de Janeiro	29.16	PYBR	Jaguarao	106.8
PVA	Coary	50.85	PWED	Rio de Janeiro	26.74	PYBU	Dionysio Cerqueira	52.04
PVA	Coary	43.14	PWF	Fernando de Noronha	16.025	PYBV	Dionysio Cerqueira	44.7
PVA	Coary	45.98	PWFA	Rio de Janeiro	64.655	PYBW	Dionysio Cerqueira	21.75
PVA	Coary	25.4	PWFB	Rio de Janeiro	56.179	PYBX	Sobral	85.55
PVA	Coary	19.386	PWFC	Rio de Janeiro	48.543	PYBY	Sobral	32.15
PVA	Abaiti	51.90	PWFD	Rio de Janeiro	24.25	PYCF	Fernando de Noronha	34.88
PVA	Villa Feijo	93.17	PWGA	Abrolhos	53.67	PYCG	Carolina	86.58
PVA	Montenegro	81.97	PWGB	Abrolhos	50.59	PYCH	Carolina	57.526
PVA	Caracarahy	81.76	PWGC	Abrolhos	29.24	PYCI	Carolina	32.57
PVA	Caracarahy	34.74	PWGD	Abrolhos	28.84	PYCK	Carolina	24.59
PVA	Caracarahy	29.64	PWHA	S. Luiz de Maranhao	78.33	PYCL	Montenegro	51.41
PVA	S. Borja	85.23	PWHB	Rio de Janeiro Bay	64.11	PYCM	Montenegro	29.68
PVA	S. Borja	31.91	PWHC	Rio de Janeiro Bay	47.92	PYCN	Lazerato	107.9
PVA	S. Borja	24.834	PWHD	Rio de Janeiro Bay	24.05	PYCO	Lazerato	44.91
PVA	S. Borja	21.46	PWI	S. Luiz de Maranhao	57.14	PYCP	Lazerato	39.447
PVA	Uberaba	84.98	PWIA	Rio de Janeiro	64.24	PYCQ	Lazerato	34
PVA	Uberaba	31.85	PWIB	Rio de Janeiro	55.97	PYCQ	Blumenau	137
PVA	Uberaba	24.92	PWIC	Rio de Janeiro	48.076	PYCR	Blumenau	44.71
PVA	Itacoatiari	81.52	PWID	Rio de Janeiro	24.12	PYCS	Blumenau	22.83
PVA	Itacoatiari	29.527	PWJ	S. Luiz de Maranhao	28.91	PYCV	Pelotas	26.86
PVA	Itacoatiari	26.13	PWJA	Rio de Janeiro Bay	63.97	PYCW	Barra Bahia	40.41
PVA	Itacoatiari	81.52, 37.65, 29.52	PWJB	Rio de Janeiro Bay	56.71	PYCX	Barra Bahia	29.01
PVA	Cachoeira	34.64	PWJC	Rio de Janeiro Bay	56.63	PYCY	Barra Bahia	22.51
PVA	Baio	81.3	PWJD	Rio de Janeiro Bay	26.338	PYD	Barra Bahia	135.8
PVA	Baio Para	58.71	PWK	S. Luiz de Maranhao	25.502	PYD	Porto Alegre	30.03
PVA	Baio Para	51.15	PWKA	Sadario	53.19	PYDA	Fernando de Noronha	34.48
PVA	Baio Para	29.498	PWKB	Sadario	29.01	PYDB	Aracaju	137.6
PVA	Clevelandia	92.88	PWKC	Sadario	26.59	PYDB	Aracaju	37.01
PVA	Clevelandia	38.02	PWKD	Sadario	15.92	PYDC	Aracaju	22.73
PVA	Clevelandia	34.52	PWLA	Nietheroy	63.42	PYE	Natal Norte	75
PVA	Clevelandia	19.28	PWLB	Nietheroy	56.82	PYEA	S. Luiz do Maranhao	33.84
PVA	Manicore	92.46	PWLC	Nietheroy	52.72	PYEB	S. Luiz do Maranhao	19.05
PVA	Manicore	35.05	PWLD	Nietheroy	26.36	PYEC	S. Luiz do Maranhao	90.23
PVA	Manicore	34.4	PWMA	Natal Norte	78.53	PYED	Victoria	24.519, 22.84
PVA	Manicore	19.24	PWMB	Florianopolis	57.7	PYEF	Victoria	138.9
PVA	Porto Nacional	83.14	PWMC	Florianopolis	53.28	PYF	S. Maria	82.88, 51.81, 29.97
PVA	Obidos	81.08	PWMD	Florianopolis	29.06	PYG	Natal Norte	34.88
PVA	Obidos Para	51.07	PWNE	Natal Norte	26.642	PYH	Natal Norte	34.48
PVA	Obidos Para	29.47	PWNA	Rio Grande Sul	57.25	PYJ	Rio de Janeiro	75
PVA	Obidos Para	24.29	PWNB	Rio Grande Sul	55.56	PYK	Rio de Janeiro	34.88
PVA	Marapanim	39.06	PWNC	Rio Grande Sul	47.7	PYL	Rio de Janeiro	34.48
PVA	Marapanim	39	PWND	Rio Grande Sul	28.409	PYM	Pelotas	75
PVA	Urbanopolis	91.32, 76.3, 34.23, 24.4, 19.16	PWNE	Natal Norte	23.847	PYD	Pelotas	34.88
PVA	Urbanopolis	76.3	PWOF	Rio de Janeiro	53.1	PYQ	Pelotas	34.48
PVA	Urbanopolis	34.23	PWPA	Santos	64.38	PYQ	Recife	51.203
PVA	Urbanopolis	24.4	PWPB	Santos	55.658	PYR	Septiba	19.28
PVA	Urbanopolis	24.4	PWPC	Santos	47.77	PYS	Porto Alegre	75
PVA	Urbanopolis	19.163	PWPD	Santos	28.463	PYU	Porto Alegre	34.88
PVA	Faro Para	41.1	PWPE	Santos	23.92	PYV	Porto Alegre	34.48
PVA	S. Miguel	38.02	PWPF	Rio de Janeiro	56.08	PYY	Joinville	32.33
PVA	Florianiano	91.61	PWPG	Rio de Janeiro	48.465	PYYB	Joinville	24.752
PVA	Florianiano	76.2	PWPH	Rio de Janeiro	24.213	PYYC	Joinville	24.64
PVA	Florianiano	34.27	PWP	Natal Norte	28.94	PYYD	Joinville	86.33
PVA	Florianiano	19.19	PWPQ	Natal Norte	26.549	PYYE	Joinville	33.05
PVA	Manacapur	90.50	PWQA	Anhatomirim	55.26	PYYF	Arrayas	20.82
PVA	Manacapur	74.5	PWQB	Anhatomirim	47.85	PYYG	Arrayas	75
PVA	Manacapur	33.89	PWQC	Anhatomirim	25.66	PYYH	Diamantina	329
PVA	Manacapur	19.08	PWQD	Anhatomirim	23.97	PYYB	Diamantina	30.86
PVA	Arumanduba	92.17	PXA	Governador	78.13	PYYC	Diamantina	87.336
PVA	Arumanduba	37	PXB	Belem Para	80	PYYE	Cuyaba	136.4
PVA	Arumanduba	34.34	PXC	Rio de Janeiro		PYYF	Cuyaba	30.49
PVA	Arumanduba	19.21	PXD	Centro de Aviacuo	77.32	PYYG	Cuyaba	22.56
PVA	Arumanduba	13.979	PXE	Estado Major, Rio de Janeiro	77.12	PYYH	Florianiano	33.67
PVA	Fonte Boa	90.78	PXG	Escola de Grumetes		PYYB	Florianiano	28.355
PVA	Fonte Boa	76.4	PXH	Rio de Janeiro	79.36	PYYC	Florianiano	18.91
PVA	Fonte Boa	46.99	PXI	Mocangue Rio	76.93	PYYD	Florianiano	89.15
PVA	Fonte Boa	34.09	PXJ	Abrolhos	80.22, 53.67, 50.59, 29.24, 26.84	PYYE	Formiga	32.79
PVA	Fonte Boa	19.14	PXK	Willergaignon	76.34	PYYF	Formiga	34.88
PVA	Cachoeira	51.56	PXL	Bijo (Rio de Janeiro)	76.53	PYYG	Formiga	87.08
PVA	Igarape Miry	36.88	PXM	Rio de Janeiro Bay	77.52	PYYH	Recife	34.88
PVA	Boa Vista	80.22	PXN	Sadario	78.74	PYYI	Therphilo Ottoui	115.83
PVA	Boa Vista Para	50.67	PXO	S. Luiz de Maranhao		PYYJ	Therphilo Ottoui	108.3
PVA	Boa Vista Para	29.3	PXP	S. Luiz de Maranhao		PYYK	Therphilo Ottoui	77
PVA	S. Isabel	80.43	PXPB	Armacao	77.72	PYYL	Therphilo Ottoui	21.881
PVA	S. Isabel	50.56	PXPQ	Florianopolis	78.95, 57.7, 53.28, 29.06, 26.65	PYYM	Therphilo Ottoui	33.73
PVA	S. Isabel	29.325	PXPB	Florianopolis	78.95	PYYN	Therphilo Ottoui	18.93
PVA	S. Isabel	18.32	PXPQ	Rio Grande	75.76	PYYO	Therphilo Ottoui	89.42
PVA	Fernando de Noronha	79.16	PXRB	Rio Grande	76.73	PYYP	Recife	34.88
PVA	Rio de Janeiro	77.92	PXRG	Raza (Isle) Rio de Janeiro		PYYQ	Passo Fundo	96.308
PVA			PXRS	Rio Grande du Sol		PYYR	Passo Fundo	84.5
PVA			PXSS	Santos	75.95	PYYZ	Passo Fundo	39.5

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PYZH	Alto Uruguay	141.5	RCMD	Simferopol	69.12, 49.5	REIH	Oursalk	53.86
PYZI	Alto Uruguay	84.03	RCMO	Simferopol	69.12, 49.5	REII	Kazsak Republic	82, 80, 68, 66, 40.5
PYZJ	Alto Uruguay	76.8	RCI	Kertch Crimea		REIK	Petr oparlevsk	68.627, 48.54
PYZK	Alto Uruguay	52.35	RCL	Naikhan	22.002	REIL	Koemrad	60.728
PYZL	Alto Uruguay	30.801	RCM	Palana	39.5	REIM	Alma Ata	87.464, 74.07
PYZM	Parnahyba	52.54	RCN1	Portable		REIN	Parlodar	70.93
PYZN	Parnahyba	31.06	RCN2		82	REIO	Sempalatinsk	71.27
PYZO	Parnahyba	84.5	RCN3		80	REIP	Vozrogdinie	57.5
PYZP	Villa Feijo	52.13	RCN4		68	REIQ	Kazakskaia	58.59
PYZQ	Villa Feijo	34.56	RCN5		68	REIR	Bourli Boukktu	71.94, 47.92
PYZR	Villa Feijo	193	RCN6			REIV	Alma Ata	71.09, 48.31
PYZT	Porto Nacional	51.95	RCN7			REJJ	Koustanai	59.64
PYZU	Porto Nacional	30.24	RCN8			REJK	Karsakpai	62.24, 39.95
PYZV	Porto Nacional	36.05	RCN9			REJN	Aralskoe More	46.37
PYZW	Santos	39.66	RCNA	Viazma	60	REJO	Sempalatinsk	68.65, 49.42
PYZX	Santos	21.98	RCNB	Okhoat	69.44, 49.59	REJP	Aiagorez	48.47, 34.92
PYZY	Santos	100.7	RCNC	Soukhinitchi	68.807, 49.26	REJQ	Ganiouchkino	53.5
			RCND	Bobrouisk	68.18, 48.7	REJR	Aoulie Ata	99.67, 49.5
			RCNE	Roslavis	69.12, 49.42	REJS	Alma Ata	69.12, 35.15
			RCNF	Smolensk	68.966, 49.26	REJT	Iepea	96, 48.70
			RCNG	Smolensk	82, 66	REJU	Petropavlovsk	67.57
			RCNH	Ukhnovo	82, 66	REJV	Sempalatinsk	58.94, 37.03
			RCNI	Toropets	82, 66	REJW	Oursalk	58, 50.8, 30
			RCNJ	Seljarovo	82, 66	REP	Aralsk	60.5
			RCNK	Nelidovo	82, 66	REQ	Ganiouchkino	53.5
			RCNL	Velij	82, 66	REK	Oursalk	59.3
			RCNM	Kozelsk	82, 66	RET	Podbelskogo	37
			RCNN	Peno	82, 66	REU	Rostov Sur Le Don	80, 40
			RCNO	Briansk	66.37	REV	Krasnodar	80, 40
			RCNP	Smolensk	63.28	REW	Kalatch	80, 40
			RCO1	Portable		REX	Indigo Boukhta	83.56, 29.69
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			RCQA	Koutins	80.43	RFAI	Moscow	49.62, 26
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			RCQC	Bakou	73.35, 42.37	RFAK	Koutchino	70.1
			RCQE	Saliyani	88.76, 70.59	RFAL	Koutchino	51.28
			RCQF	Bakou	89.82, 71.09	RFAM	Moscow	39.47, 34.88
			RCQG	Tifis	88.76	RFAN	Koutchino	51.63
			RCQH	Sabir Abad	89.82	RFAO	Moscow	87.46, 85.23, 76.53,
			RCQI	Sabir Abad	43.641			73.53, 42.97
			RCQJ	Saliyani	64.103	RFAF	Moscow	81.63, 40.73
			RCQK	Agdam	46.875	RFAQ	Moscow	70.75, 46.95
			RCQL	Zakataly	52.366	RFAK	Supoukhev	88.49, 71.09
			RCQM	Tifis	87.209, 74.26	RFAJ	Toula	74.63, 42.67
			RCQN	Tifis	89.44, 48.7	RFAI	Moscow	51.72
			RCQO	Kariagno	52.724	RFAJ	Bykovo	78.719, 74.813
			RCQP	Kelbadjary	65.646	RFAV	Bykovo	85.227, 73.89
			RCQQ	Kazakh	77.922	RFAW	Moscow	86.46, 74.84
			RCQR	Bakou	150	RFAK	Moscow	87.209, 43.35
			RCQU	Uffis Rdo Center	78.33	RFAJ	Moscow	68.03
			RCQV	Lininakan	63.16	RFB	Tachkent	54
			RCQX	Alagez	50.51	RFB	Moscow	89.82, 71.09
			RCQY	Tifis	51.11	RFB	Mojaisk	42.55, 21.43
			RCS	Tilitchiki	63	RFB		82, 80, 68, 66, 40.5
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			REA3	Kangora	82, 66	RGAE	Peredvika	82, 80, 68, 66, 40.5
			REA4	Sogaja Verkhniaia	82, 66	RGAF	Peredvika	82, 80, 68, 66, 40.5
			REA5	Iana	82, 66	RGAG	Peredvika	82, 80, 68, 66, 40.5
			REA6	Ioukhot	82, 66	RGAH	Peredvika	82, 80, 68, 66, 40.5
			REA7	Rybinck	82, 66	RGAI	Peredvika	82, 80, 68, 66, 40.5
			REAB	Dvanovo Voz	82, 66	RGAJ	Peredvika	82, 80, 68, 66, 40.5
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			REAG	Makariev	101.35, 82, 66	RGAQ	Ijeosk	80.86, 82.17
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RGCC	Nijne Ziatzy	82, 66	RHAB	Leningrad	45	RIKC	Narynm	82, 66
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RGCC	Iliinka	82, 66	RHAW	Pachski Perevoz	101, 35, 88, 66	RIKN	Peredvika	82, 80, 68, 66, 40, 6
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RGCC	Pavlevo	82, 66	RHB6	Loukino	101, 35, 82, 66	RIL4	Akoutikha	82, 66
RGCC	Pochatov	82, 66	RHB7	Chougozero	101, 35, 82, 66	RIL5	Povalikha	101, 35, 82, 66
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RILK	Minousinsk	80.863, 40.431	RJRF	Eletz	73.71, 42.31	RKNP	Portable	80, 68, 66, 82
RILN	Novosibirsk	84.37, 42.58	RJRU	Bobrinskaja	81.967, 54.645	RKO	Iakutsk	24
RILO	Kouznetsk	85.35, 42.67	RJRV	Vapniarka	69.525, 53.191	RKOD	Kazatin	78.125, 53.381
RILQ	Onesk	85.59, 42.84	RJRW	Znaminka	79.787, 53.951	RKOM	Denpropetrovsk	49.02, 34.97
RILR	Bogotol	82, 66	RJRX	Lozovaia	81.081, 54.348	RKON	Gorlovka	65.217, 52.91
RILS	Tisoul	82, 66	RJXA	Mathatch	69.69, 39.89	RKOO	Odessa	98.68, 48.78
RILT	Tyehytym	82, 66	RJXB	Mathatch	71.09, 42.85, 35.97	RKOP	Kiev	95.69, 68.96, 48.54
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RILX	Chemanaikh	49.34, 35.17	RKA3	Tehernaia	101.35, 82, 66	RKT	Nezametnoe	23.5
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RIMJ	Tomsk	96.44, 88.49, 48.47	RKAH	Peredviika	82, 80, 68, 66, 40.5	RLAC	Peredviika	82, 80, 68, 66, 40.5
RIMK	Topki	68.97, 49.59	RKAI	Peredviika	32, 80, 68, 66, 40.5	RLAD	Peredviika	82, 80, 68, 66, 40.5
RIML	Kamin	89.82, 71.09	RKAJ	Peredviika	82, 80, 68, 66, 40.5	RLAE	Peredviika	82, 80, 68, 66, 40.5
RIMM	Oust Tcharychskaia	71.09, 48.97	RKAK	Peredviika	82, 80, 68, 66, 40.5	RLAF	Peredviika	82, 80, 68, 66, 40.5
RIMN	Kopachevo	88.49, 71.09	RKAL	Peredviika	82, 80, 68, 66, 40.5	RLAG	Peredviika	82, 80, 68, 66, 40.5
RIMO	Kargasok	88.49, 71.09	RKAM	Peredviika	82, 80, 68, 66, 40.5	RLAH	Peredviika	82, 80, 68, 66, 40.5
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RIMR	Koumir	101.35, 82, 66	RKAO	Peredviika	82, 80, 68, 66, 40.5	RLAJ	Peredviika	82, 80, 68, 66, 40.5
RIMS	Podsevenskoe	101.35, 82, 66	RKAP	Peredviika	82, 80, 68, 66, 40.5	RLAK	Peredviika	82, 80, 68, 66, 40.5
RIMT	Rybne	101.35, 80, 86	RKAQ	Peredviika	82, 80, 68, 66, 40.5	RLAL	Peredviika	82, 80, 68, 66, 40.5
RIMU	Falmenka	101.35, 80, 86	RKAR	Peredviika	32, 80, 68, 66, 40.5	RLAM	Peredviika	82, 80, 68, 66, 40.5
RIMV	Kouznetsk	57.143	RKAS	Peredviika	32, 80, 68, 66, 40.5	RLAN	Peredviika	82, 80, 68, 66, 40.5
RIMW	Omsk	44.8	RKAT	Peredviika	82, 80, 68, 66, 40.5	RLAO	Peredviika	82, 80, 68, 66, 40.5
RIMX	Slavgorod	40.98	RKAV	Kandalakcha	49.26	RLAP	Peredviika	32, 80, 68, 66, 40.5
RIMZ	Souzoun	41.04	RKAW	Petrovavodsh	48.86	RLAQ	Peredviika	82, 80, 68, 66, 40.5
RIN1	Abakan	101.35, 82, 66	RKAX	Spasskaia Gouba	101.35, 82, 66	RLAR	Peredviika	82, 80, 68, 66, 40.5
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RIN9	Tara	41.1	RKBD	Kem	101.35, 82, 66	RLAY	Potchetskoe	78.125
RINS	Tomsk	46.58	RKBE	Kondopoga	101.35, 82, 66	RLAZ	Trimitino	69.6
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RINY	Oust Kokra	61.8	RKBH	Pinozero	38.23	RLBC	Tsakira	61.25
RINZ	Bakou	29.5, 25.06	RKBC	Moskva	44.07	RLBD	Oust Kalakan	64.66, 53.48, 37.38
RIO	Novosibirsk	94.94, 49.10	RKCD	Moskva	28.15	RLBE	Siberia	84.03, 66.81
RIOB	Petrovka	101.35, 82, 66	RKCE	Moskva	15.53	RLBF	Tamteha	81.3, 61.35
RIOC	Bakou	74.24, 45.7	RKCF	Moskva	43.8, 43.67, 43.6, 43.48, 21.9, 21.84, 21.8, 21.74	RLBQ	Moukhor	79, 62.63
RIP	Tiflis	29.76, 24.83	RKG	Moscow	4, 5, 14.7, 3.7, 5.4, 7, 22.822, 20.013	RLBH	Troitskosavsk	80.43, 65.79
RIR	Tiflis	44.58, 43.84	RKH	Moscow	4, 5, 14.7, 3.7, 5.4, 7, 22.822, 20.013	RLBI	Igarka	53.5, 38.5
RIS	Bakou	62.11, 40.11	RKI	Moscow	39.894, 19.947	RLBN	Birussa	
RIT	Tomsk	101.35, 82, 66	RKK	Moscow	48.9, 24.45	RLBT	Krasnoirsk	86.08, 42.92
RIT1	Okounevo	82, 66	RKL	Ikhbarovsk	17.26	RLBU	Chilka	51.72
RIT2	Mogotchino	82, 66	RKLA	Artemivsk	85.84, 42.92	RLBV	Krasnoirsk	51.72
RIT3	Moltchanovo	82, 66	RKLB	Stalino	84.87, 42.84	RLBW	Tzikikan	50.51
RIT4	Krasnyi Lar	82, 66	RKLC	Jitomas	43	RLBX	Nijne Oudinsk	93.76, 68.77, 67.41, 50
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RIV	Oust Maia	83.34, 40.98	RKLH	Berdiansk	84.62, 42.31	RLC	Kijma	46.5
RIX	Krementchoug	78.947, 53.763	RKLI	Lougansk	85.35, 42.67	RLCA	Irkutsk	51.28
RIY	Tohernigov	81.522, 54.545	RKLJ	Duepropetrwak	84.58, 43.29	RLCC	Irkutsk	82
RIZ	Korosten	84.270, 56.075	RKLK	Zaporojie	85.59, 42.8	RLCD	Bolchoe Derbeno	68
RJA	Irkoutsk	57.5	RKLL	Odessa	85.35, 42.67	RLCE	Tonga	82, 68, 66
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RJAH	Peredviika	82, 80, 68, 66, 40.5	RKLV	Niketovka	66.23, 51.46	RLCM	Tchemorehki	82, 68, 66
RJAI	Peredviika	82, 80, 68, 66, 40.5	RKLW	Kenmatorshaia	83.1, 57.7	RLCN	Sisim Oubie	82, 68, 66
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RJAK	Nadjidinek	82, 80, 68, 66	RKLZ	Cherovka	51.63	RLCQ	Krasnoirsk	82
RJAL	Peredviika	82, 80, 68, 66, 40.5	RKMA	Irkoutsk	43.2	RLCR	Nova	68
RJAM	Tabary	82, 80, 68, 66	RKMB	Routichenkevo	50.25	RLCT	Balakhter	81.967, 59.88
RJAN	Peredviika	82, 80, 68, 66, 40.5	RKMC	Gorlevka	51.107	RLCV	Krasnoirsk	93.75, 35.32
RJAO	Peredviika	82, 80, 68, 66, 40.5	RKMD	Odessa	77.92, 54.48	RLD	Krasnoirsk	40.5
RJAP	Sverdlovsk	68.96, 52.63	RKME	Chepetovka	83.425, 39.841	RLF	Blagavestchensk	61.5
RJAQ	Troitsk	55.05	RKMF	Nierinka	61.475, 40.161	RLG	Termez	46.8
RJAR	Ural	82, 80, 68, 66, 40.5	RKMG	Jitomii	61.856, 40.54	RLI	Tufis	51.11
RJAS	Portable		RKMH	Vinnitsa	62.31, 40.288	RLJ	Moscow	33.82
RJAT	Khelterside	62.77	RKMI	Khrisjinovka	62.5, 40.323	RLK	Ostrov	57
RJAV	Novia Pouiko	50.59, 36.452	RKMJ	Krivoi Rog	62.63, 40.377	RLLC	Beloretech	82, 66
RJAX	Nyda	50.565, 36.408	RKMK	Zaporojie	60.606, 40.326	RLRD	Oufa	82, 66
RJAZ	Ohdorsk	50.42, 36.364	RKML	Zouevka	51.72	RLRE	Zilair	82, 66
RJBA	Magnitogorsk	68.65, 49.50	RKMN	Novo Daviovka	51.55	RLRF	Kartali	56.6
RJBB	Tumen	71.78	RKMO	Konstantinovka	51.35	RLRG	Ufa	33.1
RJBC	Karotouka	70.75	RKMP	Sorokino	51.195	RLRH	Baekhris Rep.	82, 80, 68, 66, 40.5
RJBD	Sverdlovsk	87.97, 43.42	RKMQ	Verkhni	51.62	RLRI	Portable	82, 80, 68, 66, 40.5
RJBE	Tobolsk	87.71, 42.31	RKMR	Verkhni	51.02	RLRJ	Topornio	48.23
RJBF	Obdorsk	85.50, 42.85	RKMS	Kharkev	50.93	RLRK	Oufa	47.62
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RJCA	Oural	38.51, 31.58	RKMY	Khersen	72.1, 47.1	RLRP	Krasnououjinsk	82, 66
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RJCG	Toungouka	54.95	RKNA	Novosibirsk	69.87	RLRX	Arguiche	80.214
RJCH	Berditehev	66.519, 52.45	RKNB	Kharkev	98.04, 81.74, 67.04, 54.5, 43.86, 36.32, 21	RLRY	Nikolo Berezvka	85.359
RJCI	Touroukbansk	51.02, 37.97	RKNM	Portable		RLRZ	Oufa	80.429
RJCL	Strelka	40.7	RKNP	Portable		RLS	Zilair	69.444
RJCM	Kamenka	32.2	RKNQ	Portable		RLSA	Routcherikovo	67.416, 51.803
RJCN	Goltavino	37	RKNN	Portable		RLT	Oufa	71.2, 36
RJCO	Balakhta	34.2				RLU	Chakhty	80.645, 54.152
RJCP	Krasnoirsk	61.22				RLV	Khaekov	80.214, 55.659
RJCR	Kazatin	78.125, 53.381				RLW	Grichino	82.218, 54.845
RJCS	Voroniz	68, 50.78					Artem	





Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
SDYA	Burgundia	36.5, 24.15	SIWA	Bernicia		UOJ	Deutsch Altenburg	39.306
SDZN	Roxen	36.5	SIWN	Pan Gothia	36.5, 24.15	UOK	Altenburg	40.6
SEGA	Swedish	36.5	SIXA	Nuolja	36.5	UOLP5	Linzi	87.79, 70.71, 40.09
SEGN	Gondul	36.5	SIYN	Atlanten	36.5, 24.15	UOM	Wien	86.58, 72.81, 40.17
SEHN	Hemland	36.5	SIYN	C. B. Pedersen	36.5, 24.15	UOP	Wien	85.96, 72.02, 44.17
SEIN	Niagara	36.5	SIZA	Procyon	36.5, 24.15	UOR	Deutsch Altenburg	23.9
SEJA	Delke	36.5, 24.15	SIZN	Adele	36.5, 24.15	UOSP5	Salzburg	87.20, 70.42
SEJN	Shantung	36.5	SJAN	Innarem	36.5	UOX	Deutsch Altenburg	23.2
SEKN	Kastelholm	36.5, 24.15	SJBA	Laponia	36.5	<b>UWA-UZZ, VAA-VGZ CANADA</b>		
SELN	Ella	36.5	SJBN	Agne	36.5, 24.15	UWA	Vancouver, B. C.	93.9
SEMA	Murjek	36.5	SJCA	Nijorn	36.5, 24.15	UWB	Victoria, B. C.	92.3
SEMN	Britannia	36.5	SJMA	Drottningholm	36.5	UWC	Kelouna, B. C.	69.38
SENT	Suecia	36.5	SJNA	Erland	36.5	UWD	Vancouver, B. C.	67.18
SEOA	Falsterbo	36.5	SJTA	Porjus	36.5, 24.15	UWE	Toronto, B. C.	52.45
SEON	Halleren	36.5	SJUA	Graecia	36.5, 24.15	UWF	Toronto, Ont.	55.4
SEPN	Manga	36.5	SJZA	Malmen	36.5, 24.15	UWG	Quebec, P. Q.	54.7
SEQN	Sveadrott.	36.5	SKAN	Alex Johnson	36.5	UWH	Quebec, P. Q.	24.74
SERA	Santos	36.5	SKBA	Gripsholm	36.5	UWI	Winnipeg, Man.	62.18
SERN	Ring	36.5	SKCA	Tolken	36.5	UWJ	Moncton, B. C.	51.9
SETN	Rane	36.5	SKIA	Benares	36.5, 24.15	UWK	Moncton, N. B.	30.88
SEUA	Korsholm	36.5	SKJA	Strassa	36.5	UWL	Edmonton, Alta.	54.6
SEVN	Nordland	36.5	SKLA	Nanking	36.5, 24.15	UWM	Edmonton, Alta.	44.12
SEWA	Svealand	36.5	SKTA	Atos	36.5, 24.15	UWN	Vancouver, B. C.	52.59
SEWN	Vigor	36.5	SLDA	Oxelosund	36.5	UWO	Vancouver, B. C.	43.04
SEXA	Amerisaland	36.5	SLFA	Algeria		UWP	Winnipeg, Man.	55.5
SEYN		36.5	SLIA	Oljaren	36.5, 24.15	UWQ	Edmonton, Alta.	62.3
SFEN	Indianic	36.5, 24.15	SLJA	Swedish	36.5	UWR	Edmonton, Alta.	29
SFGA	Odenskohm	36.5	SLRA	Polcinkeln	36.5	UWS	Toronto, Ont.	61.29
SFIA	Consul Gorfitzon	36.5, 24.15	SLTA	Grangesborg	36.5	UWT	Toronto, Ont.	25.16
SFJA	Cudur	36.5	SLUA	C. F. Litjevalch	36.5	UXA	Vancouver, B. C.	55.30
SFJN	Torne	36.5, 24.15	SMA	Stockholm	41	UXB	Vancouver, B. C.	21.47
SFLN	Abisko	36.5	SMEA	Annie Johnson	36.5	UXC	Vancouver, B. C.	27.81
SFNT	Loussa	36.5	SMGA	Uندن	36.5	UXD	Winnipeg, Man.	26.07
SFOA	Miriabooka	36.5	SMHA	Hjelmaren	36.5	UXE	Winnipeg, Man.	54.79
SFPN	Sir Ernest Cassel	36.5	SMJA	Kungsholm	36.5	UXG	Winnipeg, Man.	52.31
SFRA	Abadan	36.5	SMLA	Parrakoola	36.5	UXH	Montreal, P. Q.	24.42
SFUN	Baltic	36.5	<b>SPA-SPZ POLAND</b>			UXI	Toronto, Ont.	61.52
SFWN	Bodin	36.5	SPA	Warsaw	14.876	UXJ	Halifax, N. S.	62.05
SFXA	Swedish	36.5	SPB	Random	24.62	UXK	Montreal, P. Q.	92.99
SFXN	Narvik	36.5	SPC	Radom	38.83	UXL	Montreal, P. Q.	61.41
SFYA	Gustof E. Renter	36.5	SPEC	Pulaski		UXM	Montreal, P. Q.	69.25
SFYN	Kromp Margarita	36.5	SPPL	Liore		UXN	Montreal, P. Q.	22.07
SFZA	Margaret Johnson	36.5	SPPS	Szkola		UXO	Montreal, P. Q.	61.02
SFZN	Swedish	36.5	SPU	Warsaw	15.3	UXP	Toronto, Ont.	67.05
SGBN	Canton	36.5	SPW1	Warsaw		UXQ	Ottawa, Ont.	99.67
SGCN	San Francisco	36.5	SPW2	Warsaw		UYA	Halifax, N. S.	32.95
SGDA	Sumatra	36.5	SPW3	Warsaw		UYB	Montreal, P. Q.	93.17
SGEA	Pedro Christopherson	36.5	SPXX	Grudziadz		UYC	Ottawa, Ont.	99.27
SGFA	Sydie		SPZZ	Warsaw		UYO	Toronto, Ont.	66.89
SGIA	Eknaren	36.5, 24.15	<b>STA-STZ, SUA-SUZ EGYPT</b>			UYE	Winnipeg, Man.	54.89
SGIN	Braheholm	36.5	SUA	Giza	40.74, 26.18	UYF	Vancouver, B. C.	28.30
SGL	Stockholm	36.5	SUB	Baharia	40.74, 26.18	UYG	Winnipeg, Man.	66.75, 38.53
SGLN	Lagaholm	36.5	SUC	Cairo	21.521	UYH	Saskatoon, Sask.	66.75, 38.53
SGMA	Sagoland	36.5, 24.15	SUD	Dakhia	40.74, 26.18	UYI	Regina, Sask.	66.75, 38.53
SGMN	Milos	36.5, 24.15	SUE	Siiva	40.74, 26.18	UYJ	Pas, Man.	150
SGPN	Nordic	36.5	SUG	Assouan	42.89	UYK	Flin Flon, Man.	107.1
SGRA	Carisholm	36.5	SUH	Alexandria	40.74, 26.18	UYU	Edmonton, Alta.	22.02
SGRN	Pollux	36.5	SUK	Kosseir	40.74, 26.18	UYV	Port Menier, Que.	185.2, 136.0
SGTA	Secicia	36.5	SUR	Alexandria	32.8	UYW	Winnipeg, Man.	124.17
SGUA	Skagern	36.5, 24.15	SUS	Cairo	29.95	UYX	Salmon River, Que.	185.2, 136.0
SGVA	John Lundwall		SUV	Abou Zabal	44.27, 25.18	UYZ	Masson, P. Q.	98.1, 176.89
SGWA	Valparaiso	36.5	SUW	Cairo	38.21	UZA	High Falls, P. Q.	135.6
SGXA	Japan	36.5	SUX	Cairo	38.33, 15.259	UZB	Charlottetown, P. E. I.	99.5, 62.70, 23.70
SGXN	Valencia	36.5	SUY	Cairo	38.33, 15.25, 21.72,	UZC	Bellevue, P. Q.	185.2, A1-2-3
SGYA	Ceylon	36.5	SUZ	Cairo	21.71, 21.70,	UZD	Glace Bay, N. S.	41.04, 33.06, 20.52
SGZA	Zoroaster	36.5, 24.15			21.696, 21.693	UZE	Glace Bay, N. S.	41.04, 33.06, 20.52
SHAN	Balakava	36.5	<b>SVA-SZZ GREECE</b>			UZF	Victoria, B. C.	175.3, 124.17, 122.35,
SHBA	Lulea	36.5	SVL	Lemons	41.5	UZG	Vancouver, B. C.	86.7, 46.7, 40.21
SHBN	Miranda	36.5	<b>TFA-TFZ ICELAND</b>			UZH	Prince Rupert, B. C.	175.3, 124.17, 122.35
SHEN	Pluto	36.5, 24.15	TFA	Reykjavik		UZI	Kamloops, B. C.	86.7, 46.7, 40.21
SHFA	Agra	36.5	TFB	Flatey	175	UZI	Nelson, B. C.	175.3, 124.17, 122.35,
SHFN	Swedish	36.5	TFE	Flatey	170	UZZ	Ile La-Crosse	86.7, 46.7, 40.21
SHGN	Gotland	36.5	TFG	Grimsey	150	UZZ	Humpback Bay, B. C.	181
SHIA	Anten	36.5	TFH	Hosavik	160	UZZ	Prince George, B. C.	175.3, 124.17, 122.35,
SHJA	Lima	36.5	TFZSH		20.00, 39.98	VAA	Ottawa, Ont.	86.7, 46.7, 40.21
SHKN	Hammaren	36.5	<b>TGA-TGZ GUATEMALA</b>			VAB	Shannon Bay, B. C.	131
SHLA	Kolsnaren	36.5, 24.15	TGA	Guatemala		VAC	Riviere du Clef, P. Q.	185.2
SHLM		36.5	TGD	Quezaltenango		VAF	S. Felicien, P. Q.	185.2
SHLN	Anglo Swede	36.5	TGU	Puerto Barrios	61.80, 32.94	VAG	Ottawa, Ont.	47.06, 44.91, 44.84,
SHNA	Bullaren	36.5	<b>TIA-TIZ COSTA RICA</b>			VAA		44.27
SHPA	Yugaren	36.5, 24.15	TIA	S. Jose	37.974	VAB	Vancouver, B. C.	48.74
SHQA	Swedish	36.5	TIC	Cuesta	51.68, 43.04, 37.88	VAC	Cape Lazo, B. C.	198.7
SHQN	Blaland	36.5	TID	Liberia	37.984	VAF	Alert Bay, B. C.	198.7
SHRN	Gunnaren	36.5	TIE	Pozo	37.97	VAI	Point Gray, B. C.	198.7, 43.5
SHTN	Belgia	36.5	TIF	Buenos Aires	37.965	VAJ	Diby Is., B. C.	48.25, 44.4
SHUA	Faxen	36.5	TIJ	General	38	VAK	Gonzales Hill, B. C.	47.5
SHUN	Pegasus	36.5	TIM	Puerto Jimenez	38.734	VAP	Port Churchill, Man.	43.88, 23.4, 36.88
SHVN	Blankaholm	36.5	TIP	Limon	62.05, 17.26	VAS		
SHXA	Balboa	36.5	TIR	Puntarenas	38.013	VAY	Cape Hopes, Str.	44.84, 44.27, 32.573,
SHXN	Tilia Gerthon	36.5	TIU	Cartago	49.5, 42.98, 27.9	VBB		23.931, 23.29
SHYA	Atland	36.5, 24.15	<b>UIA-UKZ DUTCH EAST INDIES</b>			VBC	Copper Mine River, N.W.T.	44.84, 36.88, 26.43,
SHYN	Laurel	36.5	UJJ	Posso Celebes Is.	69	VBD		20.41
SIBN	Flora	36.5	UJK	Celebes Is.	70	VBE	Halifax, N. S.	181.8, 127.7
SICN	Gunda	36.5	UJL	Celebes Is.	67.5	VBS	Glace Bay, N. S.	53.72, 35.67, 23.9
SIDN	Capella	36.5	UJM	Celebes Is.	66	VBY	Hudson Straits	44.84, 54
SIFN	C. G. Thulin	36.5	UKK	Baa	74	VBI	Chesterfield Inlet, N. W. T.	34.11
SIGN	Svaneholm	36.5	UKL	Kalabahi Alor Is.	71	VBJ	Nottingham Is., N. W. T.	69.12
SIJN	Carina	36.5, 24.15	<b>UOA-UOZ AUSTRIA</b>			VCK	Hudson Straits	
SIKN	Nordnyvik	36.5, 24.15	UOBB1	Wien	86.83	VCU	Merry Island, B. C.	198.7
SILA	Slureholm	36.5	UOBB7	Innsbruck	40.33	VCV	Mile 356, Manitoba	110.7
SIMA	Hermes	36.5	UOGP6	Graz	87.46, 70.61, 40.05	VDA	Ottawa, Ont.	98.50, 61.80, 42.98
SIMN	Abraham Rydberg	36.5, 24.15				VDB	Esquimalt, B. C.	
SINA	Pajala	36.5				VDC	Calgary	98.50, 61.80, 42.98
SINT	Svedborg	36.5, 24.15				VDE	Edmonton, Alberta	98.50, 61.80, 42.98
SIOA	Nippon	36.5				VDF	Montreal, Que.	98.50, 61.80, 42.98
SIOA	R. H. Sanders	36.5, 24.15				VDH	Hamilton, Ont.	98.50, 61.80, 42.98
SIPN	Sunnnyvik	36.5, 24.15				VDJ	St. Huiibert, Que.	98.50, 61.80, 42.98
SIPA	Valdivia	36.5						
SIRA	Consul Olissin	36.5						
SIRN	Kalmia	36.5, 24.15						
SITA	Mertainen	36.5, 24.15						
SITN	Dalkem	36.5, 24.15						
SIVA	Buenos Aires	36.5, 24.15						
SIUN	Tamara	36.5, 24.15						
SIVN	Peiping	36.5, 24.15						

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
VOL	London, Ont.	98.50, 61.80, 42.98	VGKW	Empress of Russia		VJQ	Salamao, New Guinea	39.47
VOM	Moose Jaw, Sask.	98.50, 61.98, 42.98	VGKY	Chelosin	198.7	VJU	Marburber, New Guinea	
VOR	Regina, Sask.	98.50, 61.80, 42.98	VGKZ	Beatrice	198.7	VJV	Manus, New Guinea	75.53, 36.80
VDT	Toronto, Ont.	98.50, 69.12, 61.80, 42.98	VGLJ	Merry Is., B. C.		VJW	Aitape, New Guinea	73.53, 36.80, 22.09
VEB	Mayo Landing, Yukon	51.77, 38.41, 31.04, 24.3	VGLM	Robert Preston	198.7	VJX	Bulolo, New Guinea	39.47
VEC	Fort Simpson, Yukon	51.77, 31.04, 24.3	VGLP	Burrard Chief	198.7	VJY	Kavieng, New Guinea	73.53, 36.80
VED	Edmonton, Alta.	51.77, 38.41, 31.04, 24.3	VGLR	Cottonwood	198.7	VJZ	Rabaul, New Guinea	78.9, 15.345, 48.54, 43.47, 32.22
VEF	Aklavik, N. W. T.	31.04	VGMS	P. S. M.	198.7	VKA	Bogolara	185
VEJ	Camp Bordon, Ont.	38.41, 35, 31.04, 24.3	VGM Y	Progressive	198.7	VKB	Yass	185
VEL	Winnipeg, Man.	31.04	VGMZ	Hustler	198.7	VKD	Melbourne	177.5
VEQ	Cormorant Lake, Man.	31.04	VGNF	Moresby	198.7	VKF	Melbourne	145
VER	Ottawa, Ont.	38.41, 54.9, 35, 24.3, 51.77	VGNK	Masset	198.7	VKG	New So. Wales	184.95
VER	Ottawa, Ont.	35.0	VGNR	Princess Elaine	198.7	VKK	Birdsville	148.514, 34.762
VE9AC	Vancouver, B. C.	197.4, 189.9, 125.1, 46.7	VGNS	Ark	198.7	VKL	Tasmania	148.514, 33.97
VE9AD	Glace Bay, N. S.	187, 125.1, 46.7, 23.35	VGNT	Prinee Edward Island	189.9	VKM	Victoria	148.51, 34.76
VE9AF	Montreal		VGNY	Faultless	198.7	VKN	Rottneot Is.	185
VE9AI	Toronto, Ont.	42.98	VGPA	Projective	198.7	VKO	Oil Co., New Guinea	197.36
VE9AK	Calgary, Alberta		VGPJ	D. B. M.	198.7	VKQ	Melbourne	108.3, 81.1, 51.72
VE9AM	Montreal	198.7, 187, 125.1, 46.7, 23.35	VGPK	James Carruthers	198.7	VKS	Sydney	43, 20, 16
VE9AO	Toronto, Ont.	49.83	VGRL	Greta M.	198.7	VKV	Hobart	106.4, 80, 51.28
VE9AP	Drummondville, Que.	47.5	VGRM	Charlottetown	189.9	VKX	Milinginehi	148.51, 34.76
VE9AQ	Nipigon, Ont.	50, 42.98	VGRN	Hopkins	198.7	VKY	Goulburn Is.	148.51, 34.76
VE9AR	Saskatchewan		VGRS	Sea Wave	198.7	VK2ME	Sydney	28.5, 18.3, 37.69
VE9AU	London, Ont.	149.7, 142.9	VGRY	Salvage Princess	198.7	VLA	Cape Bruny	189.993
VE9AV	Toronto, Ont.	62.56, 34.68, 23.35	VGSA	S. Rock	23.4, 47.5	VLB	Otago, New Zealand	189.993
VE9AZ	Maple Mount, Ont.	90, 185.2, 109.5	VGSX	S. Rock	23.4, 47.5	VLC	Tasmania	190
VE9BA	Montreal		VGSY	Ivanhoe	198.7	VLJ	Sydney	32.15, 30.78, 22.49, 18.37, 17.016
VE9BB	Toronto, Ont.	34.68	VGTJ	Le Roi	198.7	VLK	Sydney	37.06, 28.50, 27.4, 21.74, 18.37, 15.54, 14.70
VE9BC	Campbell River, B. C.	135.6, 99.5	VGTQ	Lorne	198.7	VLT	Buloville, Dut. New Guinea	105.44, 86.21, A2-3
VE9BD	Swains Lake, Ont.	185.2, 109.5, 90	VGTR	Norshore	198.7	VLU	Lae, Dutch New Guinea	105.44, 86.21
VE9BE	De Forest Road, Toronto	23.98	VGWN	Nowan	198.7	VLZ	Sydney	37.59, 30.737, 22.49, 20.4, 18.37
VE9BF	Temagami, Ont.	185.2, 109.5, 90	VGWY	Peerless	198.7	VMS	Sydney	43, 19.39
VE9BG	Savant Lake, Ont.	185.2, 109.5, 90	VGXC	R. F. M.	198.7			
VE9BH	Savant Lake, Ont.	185.2, 109.5, 90	VGXD	Czar	198.7			
VE9BK	Vancouver, B. C.	187, 125.1	VGXE	S. Faith	198.7			
VE9BL	Elk Point, Ont.	185.2, 109.5, 90	VGXF	Prospective	198.7			
VE9BM	Montreal	187, 125.1, 92.1, 46.7	VGYF	Sea Lion	198.7			
VE9BO	Lake St. Joseph	185.2, 109.5, 90	VGYG	Primitive	198.7			
VE9BP	Powell River, B. C.	135.6, 99.5, 55.71	VGYH	La Reine	198.7			
VE9BR	Armstrong, Ont.	185.2, 109.5, 90	VGYI	Prospective	198.7			
VE9BT	Fort Hope, Ont.	185.2, 109.5, 90	VGYJ	Coutle	198.7			
VE9BU	Caribou Lake, Ont.	185.2, 109.5, 90	VGYK	Vencedor	198.7			
VE9BV	Little Atibeti Lake, Ont.	185.2, 109.5, 90	VGYL	Venture	198.7			
VE9BX	Stinson, Ont.	185.2, 109.5, 90	VGYM	Wilmurdel	198.7			
VE9BZ	Vancouver, B. C.	109.5, 105.3	VGYN	Columbus	198.7			
VE9CE	Campbell R., B. C.	86.7	VGYO	Chilliwack	198.7			
VE9CH	Geizers Hill, Nova Scotia	90.04, 18.973	VGYR	Eva R.	198.7			
VE9CI	London, Ont.	108.8	VGYW	Junice B.	198.7			
VE9CM	Mount Dennis, Ont.	187, 125, 92.1, 46.7	VGYX	Sea Lioell	198.7			
VE9CN	Mt. Dennis, Ont.	23.35	VGYZ	P. L. M. 3	86.7, 46.7			
VE9CP	Montreal	187, 68.87, 51.37, 42.98		Island Comet	198.7			
VE9CQ	Toro Rapids, P. Q.	187, 68, 51.37, 42.98		P. T. B. No. 2	198.7			
VE9CR	La Prairie, P. Q.	187, 125.1, 46.7, 23.35		Canada	198.7			
VE9CT	Lulu Is., B. C.	135.6		Queen	198.7			
VE9CV	Calgary, Alta.	49.96		Commodore	198.7			
VE9DA	Otter Lake, Ont.	185.2, 109.5, 90		Princess Norah	198.7			
VE9DB	Wengiskees, Ont.	185.2, 109.5, 90						
VE9DD	Kenora, Ont.	185.2, 109.5, 90						
VE9DE	Manitou Lake, Ont.	185.2, 109.5, 90						
VE9DF	Sault Ste. Marie, Ont.	185.2, 109.5, 90						
VE9DG	Pukaskwa, Ont.	185.2, 109.5, 90						
VE9DH	Oriente Bay, Ont.	185.2, 109.5, 90						
VE9DI	Barn Is., Ont.	185.2, 109.5, 90						
VE9DJ	North Bay, Ont.	185.2, 109.5, 90						
VE9DJ	Lateford, Ont.	185.2, 109.5, 90						
VE9DN	Montreal, Que.							
VE9DS	Mt. Royal, Que.							
VE9DE	Montreal, Que.							
VE9DF	Mt. Joli, Que.							
VE9DG	Calgary, Alta.	49.10						
VE9DH	Timagimi, Ont.							
VE9DI	Ear Falls, P. Q.	62.56, 51.77						
VE9DJ	Ottawa, Ont.	40.82, 20.41						
VE9DK	Toronto, Ont.							
VE9DL	Halifax, N. S.	47.17, 44.81, 23.58, 22.43, 175.4, 147.8						
VFB	Toronto, Ont.	69.12						
VFH	Magnet Point, B. C.	198.7, 131						
VFJ	Homalko, B. C.	131						
VFL	Hudson Straits	62.82						
VFM	Vancouver, B. C.	62.82						
VFQ	Regina, Sask.	89.12, 18.349						
VFW	Fort Norman, N. W. T.	69.12, 18.349						
VFX	Thicket, Man.	69.12, 18.349						
VFZ	Camp Borden	91.5, 18.349						
VGBL	Provincial II	198.7						
VGBN	Mangen	198.7						
VGBT	Plunger	198.7						
VGCF	P. D. G. 2	86.7, 46.7						
VGCK	Kiora	194.8						
VGCN	P. L. M. 8	175.3, 124.17, 86.7, 46.7						
VGCP	Clayburn	198.7						
VGCX	Earl	198.7						
VGDJ	Pacific Monarch	198.7						
VGDM	Storm King	198.7						
VGDW	Annacis	198.7						
VGDW	Dauntless	198.7						
VGFM	Cape Scott	198.7						
VGFQ	Almara	198.7						
VGFS	B. C. Forester	194.8						
VGJL	Canadian Commander							
VGJR	Oliver Clarke	194.8						
VGJS	Taconite	198.7, 54.3, 64						
VGJZ	Wireless	198.7						
VGKN	Chemainus	198.7						
VGKP	Achates	198.7						
VGKT	Empress of Asia							

VOA-VOZ-NEW FOUNDLAND

VOQJ	Malbo	35
VOQL	Irene	35
VOQM	Reo	35
VOQN	Selmak	35
VOQP	Yamaska	35
VOQR	Prince Albert	35
VOQS	Casanova	35
VOQX	Chasina	35

VPA-VSZ-BRITISH COLONIES AND PROTECTORATES

VPA	Madaruma, Br. Guiana	43.86
VPB	Colombo, Ceylon	36.49
VPC	Falkland Isls., So. Amer.	
VPD	Sura, Fiji Islands	25.13, 22.94, 20.79
VPE	Suva, Fiji Islands	20.70, 25.13
VPF	Labasa, Fiji Islands	43.79, 80.43
VPG	Tareuni, Fiji Islands	43.79, 80.43
VPIA	Gold Coast, W. Africa	32.08, 18.575
VPN	Suva, Fiji Islands	20.8
VPNL	Nassau, Nassau	74.34, 52.40, 52.38
VPNJ	Coronada, Falkland Is.	36.5, 31
VPRS	Saragossa	36.5
VPSJ	Southern Empress, Falkland Islands	36, 22.6
VPSL	Discovery II	36.5, 26.59
VPSM	Salvestria, Falkland Is.	36.5
VPSQ	Sourabaya, Falkland Is.	36.5
VPSR	Kenya, Africa	36.74, 21.59
VPS	Cape D'Agular, Hong Kong	
VPT	Singapore, Straits Sett.	34.52
VPU	Penang, Straits Sett.	32.97
VPV	Zanzibar, Zanzibar	36.19
VQA	Jesseton, Bermuda	54.84, 29.67, 14.85
VQB	Syndankon, Bermuda	44.88, 29.41, 52.91
VQC	Batu Anam, Sarawak	34.44, 29.67, 27.80
VQD	Kenya, Br. E. Africa	27.96, 15.283
VQE	Savusavu, Fiji Island	43.79, 80.43
VQF	Miri, Sarawak	34.44, 27.98
VQG	Kenya, Br. East Africa	53, 45.52, 42.98, 40.49, 32.02, 26.09
VQH	Sabu, Sarawak	25
VQI	Kamakus, Br. Guiana	34.44
VQJ	Georgetown, British Guiana	54.59, 33.73
VQK	British Guiana	43.86
VQL	Suva, Fiji Islands	80.43, 43.79
VQM	Stony Hill, Jamaica, B. W. I.	
VQN	Mauritius	20.38, 81.76
VQO	Hamilton, Bermuda	29.80, 59.42
VQP	British Guiana, S. Am.	43.86, 30.99
VQR	British Guiana, S. Am.	43.86
VQS	Apoteri, Br. Guiana	43.86
VQT	Nukualofa, Tonga	43.79
VQU	Basrah, Iraq	
VQV	Chebuda, British India	105
VQW	Suva, Fiji Islands	
VQX	Calcutta, India	36.98, 30.801
VQY	Delhi, India	33.48
VQZ	Ambala, India	50.12, 26.54
VQA	Ambala, India	26.667
VQB	Poona, India	44.09, 27.77
VQC	Karachi, India	74.75, 30.045
VQD	Lahore, India	38.24, 24.038
VQE	Madras, India	23.041
VQF	Miranskat, India	35.84
VQG	Kohat, India	34.88, 20.155
VQH	Peshawar, India	34.82
VQI	Quetta, India	38.26, 24.291
VQJ	Rangoon, India	36.65, 32.57
VQK	Simla, India	33.241, 17.606
VQL	Lower Topa, India	86.95, 30.075

VHA-VMZ AUSTRALIA

VHD	Sydney	35.335
VHE	Victoria	44.60, 30.54, 22.30
VHF	Melbourne	44
VHG	Melbourne	44



# BEST SHORT-WAVE STATIONS

This list of short-wave relay broadcasting, commercial and experimental stations is the result of several years of work. Names and ad-

resses are included wherever possible so that you may know where to write. The blank spaces are for the dial settings of your own set.

★Stars designate the most active and best heard stations. Times are Eastern Standard  
 C—Commercial phone. B—Broadcast service. X—Experimental service.

Station	Dial	Station	Dial	Station	Dial	Station	Dial
<b>27800 kc. W6XD</b> -X- 10.79 meters Mackay Radio PALO ALTO, CALIF.		<b>18620 kc. GAU</b> -C- 16.11 meters General Post Office RUGBY, ENGLAND		<b>16270 kc. WLK</b> -C- 18.44 meters A. T. & T. Co. LAWRENCEVILLE, N. J.		<b>14470 kc. WMF</b> -C- 20.73 meters LAWRENCEVILLE, N. J.	
<b>21540 kc. ★W8XK</b> -B- 13.93 meters WESTINGHOUSE ELECTRIC SAXONBURG, PA. 7 a. m.-2 p. m.; relays KDKA programs		<b>18370 kc. PMC</b> -C- 16.33 meters BANDOENG, JAVA.		<b>16270 kc. WOG</b> -C- 18.44 meters OCEAN GATE, N. J.		<b>14525 kc. XDA</b> -C- 20.65 meters TRANS-NEWS AGENCY Mexico City 2:30-3 p. m.	
<b>21470 kc. GSH</b> -B- 13.97 meters BRITISH BROAD. CORP. Daventry, England British Empire programs <b>NOT USED AT PRESENT</b>		<b>18345 FZS</b> -C- 16.35 meters Saigon, INDO-CHINA		<b>16233 kc. FZR</b> -C- 18.48 meters SAIGON, INDO-CHINA phone to Paris		<b>14530 kc. LSA</b> -C- 20.65 meters BUENOS AIRES, ARGENTINA	
<b>21420 kc. WKK</b> -C- 14.01 meters A. T. & T. CO. LAWRENCEVILLE, N. J. Transoceanic phone		<b>18340 kc. WLA</b> -C- 16.36 meters LAWRENCEVILLE, N. J.		<b>15880 kc. FTK</b> -C- 18.90 meters ST. ASSISE, FRANCE		<b>14440 kc. GBW</b> -C- 20.78 meters Rugby, England	
<b>21130 kc. LSM</b> -C- 14.15 meters BUENOS AIRES, ARGENTINA Commercial radiophone		<b>18310 kc. GAS</b> -C- 16.38 meters General Post Office RUGBY, ENGLAND		<b>15490 kc. J1AA</b> -X- 19.36 meters Mornings KEMIKAWA-CHO-CHIBA- KEN, JAPAN		<b>13990 kc. GBA</b> -C- 21.44 meters RUGBY, ENGLAND	
<b>21060 kc. WKA</b> -C- 14.25 meters LAWRENCEVILLE, N. J.		<b>18240 kc. FRO, FRE</b> -C- 16.44 meters ST. ASSISE, FRANCE		<b>15330 kc. ★W2XAD</b> -B- 19.56 meters GENERAL ELECTRIC CO. Schenectady, N. Y. Relays WGY, Mon., Wed., Fri., 2:30-3:30 p. m., Sun. 2-4 p. m.		<b>13585 kc. GBB</b> -C- 22.08 meters RUGBY, ENGLAND	
<b>21020 kc. LSN</b> -C- 14.27 meters BUENOS AIRES, ARGENTINA Commercial radiophone		<b>18200 kc. GAW</b> -C- 16.48 meters RUGBY, ENGLAND		<b>15295 kc. CP4</b> -B- 19.61 meters LA PAZ, BOLIVIA 10:30-11:30 a. m.		<b>13465 kc. GBQ</b> -C- 22.28 meters RUGBY, ENGLAND	
<b>20730 kc. LSY</b> -C- 14.47 meters BUENOS AIRES ARGENTINA Commercial radiophone		<b>18040 GAB</b> -C- 16.63 meters RUGBY, ENGLAND		<b>15270 kc. ★W2XE</b> -B- 19.65 meters Atlantic Broadcasting Corp. Wayne, N. J. 11 a. m.-1 p. m., relays WABC		<b>13390 kc. WMA</b> -C- 22.40 meters A. T. & T. CO., LAWRENCEVILLE, N. J.	
<b>20380 kc. GAA</b> -C- 14.72 meters RUGBY, ENGLAND		<b>17810 kc. PCV</b> -C- 16.84 meters KOOTWIJK, HOLLAND 6:00-9:00 a. m.		<b>15243 kc. ★FYA</b> -B- 19.68 meters "RADIO COLONIAL" Pontoise (Paris), France Service de la Radiodiffusion, 103 Rue de Grenelle, Paris 8-11 a. m.		<b>13210 kc. WOO</b> -C- 22.71 meters OCEAN GATE, N. J.	
<b>19900 kc. LSG</b> -C- 15.87 meters BUENOS AIRES ARGENTINA		<b>17780 kc. ★W3XAL</b> -B- 16.87 meters NATIONAL BROAD. CO. Bound Brook, N. J. 9 a. m.-2 p. m., exc. Sat. Relays WJZ		<b>15210 kc. ★W8XK</b> -B- 19.72 meters WESTINGHOUSE ELECTRIC & MFG. CO. Saxonburg, Pa. 10 a. m.-4:15 p. m. Relays KDKA		<b>12863 kc. XPERMNTAL</b> 23.32 meters General Experimental Channel (U. S. A.)	
<b>19820 kc. WKN</b> -C- 15.14 meters A. T. & T. Co. LAWRENCEVILLE, N. J.		<b>17770 kc. ★GSG</b> -B- 16.88 meters British Broad. Corp. DAVENTRY, ENGLAND British Empire programs Daily, 7-8:45 a. m.; Sunday, 7:30-8:45 a. m.		<b>15200 kc. ★DJB</b> -B- 19.73 meters ZEESEN, GERMANY 8 a. m., 1:40 p. m.	15.4 68 9AM	<b>12840 WWO</b> -C- 23.36 meters LAWRENCEVILLE, N. J.	
<b>19355 kc. FTM</b> -C- 15.50 meters ST. ASSISE, FRANCE		<b>17775 kc. ★PHI</b> -B- 16.88 meters HUIZEN, HOLLAND		<b>15140 kc. ★GSF</b> -B- 19.81 meters BRITISH BROAD. CORP. Daventry, England British Empire programs 3-5 a. m.	15.4 69 1/2 9AM	<b>12840 WOO</b> -C- 23.36 meters OCEAN GATE, N. J.	
<b>19220 kc. WKF</b> -C- 15.60 meters A. T. & T. Co. LAWRENCEVILLE, N. J. Transoceanic radiophone		<b>17640 kc. Ship.</b> -C- 17.00 meters SHIPS Phones to Shore Work on this and higher channels		<b>15120 kc. ★HVJ</b> -B- 19.83 meters VATICAN CITY Rome, Italy 5:00 to 5:15 a. m., except Sunday, and irregularly at 10 a. m.		<b>12825 kc. ★CNR</b> -B, C- 23.39 meters DIRECTOR GENERAL Telegraph and Telephone Stations, Rabat, Morocco Phones Paris mornings irregularly Broadcasts Sunday, 7:30-9:00 a. m.	
<b>19160 kc. GAP</b> -C- 15.66 meters RUGBY, ENGLAND		<b>17310 kc. XPERMNTAL</b> -X- 17.33 meters General Experimental Channel (U. S. A.)				<b>12780 kc. GBC</b> -C- 23.47 meters RUGBY, ENGLAND	
<b>18970 GAQ</b> -C- 15.81 meters RUGBY, ENGLAND		<b>17120 kc. WOO</b> -C- 17.52 meters A. T. & T. Co., OCEAN GATE, N. J.				<b>12290 kc. GBU</b> -C- 24.41 meters RUGBY, ENGLAND	
<b>18830 kc. PLE</b> -C- 15.93 meters BANDOENG, JAVA.		<b>17120 kc. WOY</b> -C- 17.52 meters LAWRENCEVILLE, N. J.				<b>12260 kc. FTN</b> -C- 24.47 meters ST. ASSISE (PARIS), FRANCE	
<b>18680 GAX</b> -X- 16.06 meters RUGBY, ENGLAND		<b>17080 kc. GBC</b> -C- 17.56 meters RUGBY, ENGLAND				<b>12150 kc. GBS</b> -C- 24.69 meters RUGBY, ENGLAND	

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Station	Dial	Station	Dial	Station	Dial	Station	Dial
<b>12000 kc. RNE</b> -B- 25 meters MOSCOW, U. S. S. R. Sun. 8-9, 10-11 a. m. and irregularly daily		<b>10550 kc. WOK</b> -C- 28.44 meters A. T. & T. CO., LAWRENCEVILLE, N. J.		<b>9590 kc. ★VK2ME</b> -B- 31.28 meters AMALGAMATED WIRELESS, Ltd., Sydney, Australia Sunday, 1-3 a. m., 5-9 a. m., 9-11 a. m.		<b>8560 kc. WOY</b> -C- 35.05 meters LAWRENCEVILLE, N. J.	
<b>11950 kc. KKQ</b> -X- 25.10 meters BOLINAS, CALIF.		<b>10530 kc. GBX</b> -X- 28.49 meters RUGBY, ENGLAND		<b>9590 kc. ★W3XAU</b> -B- 31.28 meters BYBERRY, PA. relays WCAU		<b>8450 kc. PRAG</b> -C- 35.50 meters PORTO ALEGRE, BRAZIL 8:30-9:00 a. m.	
<b>11880 kc. ★FYA</b> -B- 25.25 meters "RADIO COLONIAL" Pontoise, Paris 11:15 a. m.-2:15 p. m., 3-6 p. m.		<b>10520 kc. VLK</b> -C- 28.51 meters SYDNEY, AUSTRALIA		<b>9585 kc. ★GSC</b> -B- 31.29 meters BRITISH BROAD. CORP. Davenport, England British Empire programs Daily, 1:15-5:45 p. m., 6-8 p. m.	9.4 94 JPM	<b>8036 kc. ★CNR</b> -B- 37.33 meters RABAT, MOROCCO Sunday, 3-5 p. m.	
<b>11870 kc. ★W8XK</b> -B- 25.26 meters Westinghouse Electric Co. SAXONBURG, PA. 4:30-10:00 p. m. Relays KDKA programs		<b>10410 kc. PDK</b> -C- 28.80 meters KOOTWIJK, HOLLAND 7:30-9:40 a. m.		<b>9570 kc. ★W1XAZ</b> -B- 31.35 meters WESTINGHOUSE ELECTRIC & MFG. CO. Springfield, Mass. Relays WBZ, 7 a. m.-1 a. m.	9.4 97	<b>7920 kc. GCP</b> -C- 37.88 meters RUGBY, ENGLAND	
<b>11865 kc. ★GSE</b> -B- 25.28 meters British Broad. Corp. DAVENTRY, ENGLAND British Empire programs Daily 7-8:45 a. m., 9-11 a. m. Sunday, 7:30-8:45 a. m., 9-11 a. m.		<b>10410 kc. KES</b> -X- 28.80 meters BOLINAS, CALIF.		<b>9560 kc. ★DJA</b> -B- 31.38 meters ZEESEN, GERMANY 12:30-9:15 p. m.		<b>7880 kc. J1AA</b> -C- 38.07 meters KEMIKAWOA-CHO-CHIBA- KEN, JAPAN	
<b>11830 kc. ★W2XE</b> -B- 25.36 meters ATLANTIC BROADCASTING CORP., Wayne, N. J. 3-5 p. m. Relays WABC		<b>10350 kc. LSX</b> -X- 28.98 meters BUENOS AIRES, ARGENTINA		<b>9530 kc. ★W2XAF</b> -B- 31.48 meters GENERAL ELECTRIC CO. Schenectady, N. Y. Relays WGY programs 7:45-11 p. m.		<b>7830 kc. PDV</b> -C- 38.30 meters KOOTWIJK, HOLLAND After 9 a. m.	
<b>11810 kc. ★I2RO</b> -B- 25.4 meters Rome, Italy 11:30 a. m. to 12:15 p. m. and 1:15-6 p. m.		<b>10300 kc. LSL</b> -C- 29.13 meters BUENOS AIRES, ARG. Relays Broadcasts Occasionally		<b>9510 kc. ★GSB</b> -B- 31.55 meters BRITISH BROAD. CORP. Davenport, England British Empire programs Daily, 9 a. m.-1 p. m.		<b>7799 kc. ★HBP</b> -B- 38.47 meters LEAGUE OF NATIONS, GENEVA, SWITZERLAND 5:30-6:15 p. m., Saturday	
<b>11790 kc. W1XAL</b> -B- 25.45 meters BOSTON, MASS.		<b>9950 kc. GCU</b> -C- 30.15 meters RUGBY, ENGLAND		<b>9510 kc. ★VK3ME</b> -B- 31.55 meters AMALGAMATED WIRELESS, Ltd. G. P. O. Box 1272E, Melbourne, Australia Wed., 5:00-6:30 a. m., Saturday, 5:00-7:00 a. m.		<b>7770 kc. PCK</b> -C- 38.60 meters KOOTWIJK, HOLLAND 9 a. m. to 7 p. m.	
<b>11760 kc. ★DJD</b> -B- 25.50 meters ZEESEN, GERMANY 8 a. m.-2:30 p. m.		<b>9890 kc. LSN</b> -C- 30.30 meters BUENOS AIRES Phone to Europe		<b>9490 kc. SR1</b> -B- 31.6 meters POZNAN, POLAND		<b>7444 kc. HBQ</b> -B- 40.3 meters LEAGUE OF NATIONS, GENEVA, SWITZERLAND	
<b>11750 kc. ★GSD</b> -B- 25.53 meters BRITISH BROAD. CORP. Davenport, England British Empire programs Daily 3-5 a. m., 1:15-4 p. m.	11.8 17 JPM	<b>9870 kc. WON</b> -C- 30.4 meters LAWRENCEVILLE, N. J.		<b>9330 kc. CGA</b> -C- 32.15 meters DRUMMONDVILLE, CANADA		<b>7150 kc. HJ4ABB</b> -B- 41.6 meters MANIZALES, COLOMBIA Sat., 11 p. m.-Midnight	
<b>11730 kc. ★PHI</b> -B- 25.57 meters HUIZEN, HOLLAND 8:30-10:30 a. m., Mon., Thurs., Fri., and 8:30-11 a. m., Sat. and Sun.		<b>9870 kc. J1AA</b> -X- 30.4 meters KEMIKAWOA-CHO-CHIBA- KEN, JAPAN 4-7 a. m., irregularly		<b>9280 kc. GCB</b> -C- 32.33 meters RUGBY, ENGLAND		<b>6990 kc. LCL</b> -B- 42.92 meters JELOY, NORWAY Daily 1-5 p. m.	
<b>11720 kc. ★VE9JR</b> -B- 25.6 meters WINNIPEG, CANADA Daily 6-10:30 p. m., Sunday 9-10:30 p. m.		<b>9860 kc. ★EAQ</b> -B- 30.43 meters MADRID, SPAIN Daily 5:30-7:30 p. m., also 1-3 p. m. Saturdays		<b>9020 kc. GCS</b> -C- 33.26 meters RUGBY, ENGLAND		<b>6976 kc. EAR110</b> -B- 43 meters MADRID, SPAIN Tues., Sat., 5:30 p. m.	
<b>11705 kc. ★FYA</b> -B- 25.63 meters "RADIO COLONIAL" Pontoise (Paris) 3-6 p. m., 6:15-9 p. m., 10 p. m.-12 midnight, Daily		<b>9790 kc. GCW</b> -C- 30.64 meters RUGBY, ENGLAND		<b>8928 kc. TGX</b> -C- 33.50 meters GUATEMALA CITY, C. A.		<b>6905 kc. GDS</b> -C- 43.45 meters RUGBY, ENGLAND	
<b>11680 kc. KIO</b> -C- 25.68 meters KAHUHU, HAWAII		<b>9750 kc. WOF</b> -C- 30.77 meters LAWRENCEVILLE, N. J.		<b>8920 kc. GCX</b> -X- 33.63 meters RUGBY, ENGLAND		<b>6860 kc. KEL</b> -C- 43.70 meters BOLINAS, CALIF. Transpacific Radiophone	
<b>11340 kc. DAN</b> -C- 26.44 meters NORDEICH, GERMANY		<b>9675 kc. ★TI4NRH</b> -B- 31 meters HEREDIA, COSTA RICA, 10-11 p. m. Sundays at 6 p. m. also		<b>8760 kc. GCQ</b> -C- 34.25 meters RUGBY, ENGLAND		<b>6840 kc. CFA</b> -C- 43.80 meters DRUMMONDVILLE, CANADA	
<b>11181 kc. ★CT3AQ</b> -B- 26.83 meters FUNCHAL, MADEIRA Tues., Thurs., 5:00-6:30 p. m. Sunday, 10:30 a. m.-12 noon		<b>9640 kc. HSP2</b> -B- 31.10 meters BROADCASTING SERVICE Post and Telegraph Department Bangkok, Siam		<b>8680 kc. GBC</b> -C- 34.56 meters RUGBY, ENGLAND		<b>6795 kc. GDB</b> -C- 44.15 meters RUGBY, ENGLAND	
<b>10770 kc. GBP</b> -C- 27.85 meters RUGBY, ENGLAND		<b>9600 kc. ★CT1AA</b> -B- 31.25 meters LISBON, PORTUGAL Tues. and Friday, 4:30-6:00 p. m.		<b>8650 kc. XPERMNTAL</b> -X- 34.68 meters General Experimental Channel (U. S. A.)		<b>6753 kc. WOA</b> -C- 44.40 meters LAWRENCEVILLE, N. J.	
<b>10675 WNB</b> -C- 28.1 meters LAWRENCEVILLE, N. J.		<b>9600 kc. ★XETE</b> -B- 31.25 meters MEXICO CITY, MEX. 2:30-5:30 p. m., 6:30 p. m.- 12 midnight		<b>8560 kc. WOO</b> -C- 35.05 meters OCEAN GATE, N. J.		<b>6660 kc. F8KR</b> -B- 45 meters CONSTANTINE, ALGERIA	
		<b>9595 kc. ★HBL</b> -B- 31.27 meters LEAGUE OF NATIONS Geneva, Switzerland Saturdays, 5:30-6:15 p. m.				<b>6610 kc. REN</b> -B- 45.38 meters MOSCOW, U. S. S. R.	
						<b>6425 kc. XPERMNTAL</b> -X- 46.70 meters General Experimental Channel (U. S. A.)	



Station	Dial	Station	Dial	Station	Dial	Station	Dial
<b>6425 kc. ★W3XL</b> -X- 46.70 meters NATIONAL BROADCASTING CO. Bound Brook, N. J. Irregularly		<b>6120 kc. ★W2XE</b> -B- 49.02 meters ATLANTIC BROADCASTING CORP. Relays WABC Wayne, N. J., 6:00-11:00 p. m.		<b>6060 kc. ★W3XAU</b> -B- 49.50 meters BYBERRY, PA. Relays WCAU, Philadelphia		<b>5714 kc. HCK</b> -B- 52.5 meters QUITO, ECUADOR, S. A.	
<b>6425 kc. VE9BY</b> -B- 46.7 meters LONDON, ONTARIO, CANADA		<b>6110 kc. VE9CG</b> -B- 49.10 meters CALGARY, ALTA., CANADA		<b>6050 kc. ★GSA</b> -B- 49.58 meters BRITISH BROAD. CORP. Davenport, England British Empire programs Daily, 11 a. m.-1 p. m.; 4-5:45 p. m.; 6-8 p. m.	60 45 7.30 PM	<b>5690 kc. FIQA</b> -B- 52.65 meters ADMINISTRATION DES P. T. T. Tananarive, Madagascar Tues., Wed., Thurs., Fri., 9:30-11:30 a. m. Sat. and Sun, 1-3 p. m.	
<b>6382 kc. HC1DR</b> -B- 47.00 meters QUITO, ECUADOR 8-10 p. m.		<b>6110 kc. VUC</b> -B- 49.1 meters CALCUTTA, INDIA 9:30 a. m.-12 noon, except Fri. and Sat.		<b>6040 kc. W1XAL</b> -B- 49.67 meters BOSTON, MASS.		<b>5170 kc. PMY</b> -C- 58.00 meters BANDOENG, JAVA	
<b>6335 kc. VE9AP</b> -B- 47.35 meters DRUMMONDVILLE, CANADA		<b>6100 kc. ★W3XAL</b> -B- 49.15 meters NATIONAL BROADCASTING CO. Bound Brook, N. J. Relays WJZ Saturday, 5 p. m.-1 a. m., and at other times.		<b>6030 kc. VE9CA</b> -B- 49.75 meters CALGARY, ALTA., CANADA		<b>5145 kc. OK1MPT</b> -X- 58.31 meters PRAGUE, CZECHOSLOVAKIA	
<b>6272 kc. HI1A</b> -B- 47.8 meters SANTIAGO DE LOS CABELLIEROS, Dominican Republic Irregularly, 12:10-1:10 p. m., 7:40-8:40 p. m.		<b>6100 kc. ★W9XF</b> -B- 49.18 meters DOWNERS GROVE, ILL. Relays WENR, Chicago	62 53	<b>6023 kc. XEW</b> -C- 49.8 meters MEXICO CITY, MEXICO	6 3842 9 PM	<b>4975 kc. GBC</b> -C- 60.30 meters RUGBY, ENGLAND	
<b>6270 kc. HJ3ABF</b> -B- 47.81 meters BOGOTA, COLOMBIA 7-11 p. m.		<b>6095 kc. ★VE9GW</b> -B- 49.22 meters BOWMANVILLE, ONTARIO, CANADA Mon.-Thurs., 3 p. m.-midnight; Fri., Sat., 8 a. m.-midnight; Sun., 12 noon-9 p. m.		<b>6020 kc. ★DJC</b> -B- 49.83 meters ZEESEN, GERMANY 2:30-9:15 p. m.	6 39 6 PM	<b>4798 kc. XPERMNTAL</b> -X- 62.53 meters General experimental channel (U. S. A.)	
<b>6243 kc. HKD</b> -B- 48.05 meters BARRANQUILLA, COLOMBIA		<b>6090 kc. VE9BJ</b> -B- 49.26 meters SAINT JOHN, N. B., CAN. Around 7 or 8 p. m.		<b>6005 kc. ★VE9DR</b> -B- 49.96 meters CANADIAN MARCONI CO. Drummondville, Quebec Daily 8 a. m.-12 midnight Sun. 12 noon-11 p. m.		<b>4795 kc. VE9BY</b> -X- 62.56 meters LONDON, ONTARIO, CANADA	
<b>6167 kc. XIF</b> -X- 48.65 meters MEXICO CITY, MEXICO		<b>6085 kc. CP5</b> -B- 49.3 meters LAPAZ, BOLIVIA 6-6:30 p. m., 9-10:30 p. m.		<b>6005 kc. VE9CU</b> -B- CALGARY, CANADA Irregular		<b>4752 kc. WOO</b> -C- 63.1 meters OCEAN GATE, N. J.	
<b>6150 kc. YV3BC</b> -B- 48.78 meters CARACAS, VENEZUELA Daily 10:30 a. m.-1:30 p. m.; 4:30-9:30 p. m.; Sun. 8:30 a. m.-noon, 3-6, 7:30-9:30 p. m.		<b>6080 kc. ★W9XAA</b> -B- 49.31 meters CHICAGO FEDERATION OF LABOR Chicago, Ill. Relays WCFL	62 49 7 PM	<b>6000 kc. .EAJ25</b> -B- 50 meters BARCELONA RADIO CLUB, BARCELONA, SPAIN 3-4 p. m., Saturday	60 34 7.30 PM	<b>4752 kc. WOY</b> -C- 63.1 meters LAWRENCEVILLE, N. J.	
<b>6147 kc. VE9CL</b> -B- 48.8 meters WINNIPEG, CANADA		<b>6075 kc. OXY</b> -B- 49.4 meters SKAMLEBOAEK, DENMARK Irregular, 1-6 p. m.		<b>6000 kc. ★RW59</b> -B- 50 meters MOSCOW, U. S. S. R. 3-6 p. m., daily		<b>4700 kc. W1XAB</b> -X- 63.79 meters PORTLAND, ME.	
<b>6140 kc. ★W8XK</b> -B- 48.86 meters WESTINGHOUSE ELECTRIC & MFG. CO. Saxonburg, Pa. Relays KDKA programs, 4:30 p. m.- midnight	62 61	<b>6072 kc. UOR2</b> -X- 49.41 meters VIENNA, AUSTRIA Tues. and Thurs., 8:30 a. m.-4 p. m.		<b>5970 kc. ★HVJ</b> -B- 50.26 meters VATICAN CITY (ROME) 2-2:15 p. m., daily. Sun., 5-5:30 a. m.		<b>4273 kc. ★RW15</b> -B- 70.20 meters FAR EAST RADIO STATION Khabarovsk, Siberia, U. S. S. R. Daily, 3-9 a. m.	
<b>6125 kc. VE9HX</b> -B- 48.98 meters HALIFAX, NOVA SCOTIA Daily 9:30 a. m.-noon, and 5-11 p. m., Friday also 1-2 p. m.		<b>6069 kc. VE9CS</b> -B- 49.43 meters VANCOUVER, B. C., CANADA Fri., 12:30-1:45 a. m.; Sun., 12 noon-12 midnight		<b>5900 kc. HJ4ABE</b> -B- 50.80 meters MEDELLIN, COLOMBIA Mon., 7-11 p. m.; Tues., Thurs., Sat., 6:15-8:00 p. m.; Wed. and Fri., 7:30-10:30 p. m.		<b>4272 kc. WOO</b> -C- 70.22 meters OCEAN GATE, N. J.	
<b>6122 kc. ZTJ</b> -B- 49 meters JOHANNESBURG, SOUTH AFRICA 11:45 p. m.-12:30 a. m., ex. Sat.; 4-7 a. m., 9 a. m.-3:30 p. m., ex. Sun; 9 a. m.-4:45 p. m., Sat. only; 8-10:30 a. m., 12:30-3 p. m., Sun.		<b>6060 kc. ★W8XAL</b> -B- 49.50 meters CROSLY RADIO CORP. Cincinnati, O. Relays WLW	60 46	<b>5857 kc. XDA</b> -C- 51.22 meters MEXICO CITY, MEXICO		<b>4272 kc. WOY</b> -C- 70.22 meters LAWRENCEVILLE, N. J.	
		<b>6060 kc. VQ7LO</b> -B- 49.50 meters NAIROBI, Kenya, Africa Sun.-Fri. 11 a. m.-2 p. m., Sat. 11 a. m.-3 p. m., also M. W. F. 5:45-6:15 a. m. Tues. 3-4 a. m., Thurs., 8-9 a. m.		<b>5835 kc. HJ1ABB</b> -B- 51.40 meters BARRANQUILLA, COLOMBIA Daily, 8-10 p. m.; Thurs., 8-10:30 p. m.		<b>3560 kc. OZ7RL</b> -C- 84.24 meters COPENHAGEN, DENMARK	
				<b>5710 kc. VE9CL</b> -B- 52.50 meters WINNIPEG, CANADA		<b>3256 kc. W9XL</b> -X- 92.50 meters CHICAGO, ILL.	
						<b>3076 kc. W9XL</b> -X- 97.53 meters CHICAGO, ILL.	
						<b>2342 kc. W7XAW</b> -X- 128.09 meters FISHER'S BLEND, INC., Fourth Ave. and University St. Seattle, Washington	
						<b>1560 kc. W1XAU</b> -X- 199.35 meters BOSTON, MASS.	

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# AIRPORT RADIO STATIONS

The airport stations do not follow any fixed schedules, and are likely to be heard any time of the day or night. The airplane transmitters are usually heard on the same wavelengths. The little "boxes" are for your dial settings.

<p><b>Group One</b> <input type="checkbox"/></p> <p>94.86 m.-3160 kc. 53.83 m.-5570 kc.          94.56 m.-3170 kc. 53.74 m.-5580 kc.          93.29 m.-3215 kc. 53.64 m.-5590 kc.          52.98 m.-5660 kc.</p> <p>Bakersfield, Calif. <b>KQK</b>          Bellefonte, Pa. <b>WNAM</b>          Boise, Idaho <b>KRA</b>          Brooksville, Pa. <b>WNAL</b>          Burbank, Calif. <b>KEU</b>          Cheyenne, Wyo. <b>KOE</b>          Chicago, Ill. <b>WUCG</b>          Cleveland, Ohio <b>WNAK</b>          Dallas, Tex. <b>KNAT</b>          Des Moines, Iowa <b>KQM</b>          Elko, Nevada <b>KKO</b>          Fort Worth, Tex. <b>KGUC</b>          Fresno, Calif. <b>KGT</b>          Iowa City, Iowa <b>KQQ</b>          Kansas City, Mo. <b>KNAS</b>          Lincoln, Neb. <b>KRF</b>          Medford, Ore. <b>KGE</b>          Moline, Ill. <b>WNAU</b>          Newark, N. J. <b>WNAO</b>          North Platte, Nebr. <b>KMR</b>          Oakland, Calif. <b>KFO</b>          Okla. City, Okla. <b>KNAV</b>          Omaha, Nebr. <b>KMP</b>          Orlando Twp., Ill. <b>WNAT</b>          Pasco, Wash. <b>KRD</b>          Ponca City, Okla. <b>KGUZ</b>          Portland, Ore. <b>KVO</b>          Redding, Calif. <b>KUT</b>          Rock Springs, Wyo. <b>KQC</b>          Sacramento, Calif. <b>KFM</b>          Salt Lake City, Utah <b>KQD</b>          San Diego, Calif. <b>KGQZ</b>          Seattle, Wash. <b>KZZJ</b>          Spokane, Wash. <b>KGTZ</b>          Tulsa, Okla. <b>KNAU</b>          Wichita, Kans. <b>KGTE</b></p>	<p>60.39 m.-4970 kc. 52.7 m.-5690 kc.          52.45 m.-5720 kc.</p> <p>Alameda, Calif. <b>KGSB</b>          Albuquerque, N. M. <b>KSX</b>          Burbank, Calif. <b>KSI</b>          Butte, Mont. <b>KGTY</b>          Camden, N. J. <b>WAE</b>          Columbus, Ohio <b>WHG</b>          Cresson, Pa. <b>WAEG</b>          Harrisburg, Pa. <b>WAED</b>          Indianapolis, Ind. <b>WHM</b>          Kansas City, Mo. <b>KST</b>          Kingman, Ariz. <b>KGTL</b>          Las Vegas, Nev. <b>KGTN</b>          Newark, N. J. <b>WAEF</b>          Pittsburgh, Pa. <b>WAEC</b>          Pocatello, Idaho <b>KGTX</b>          Robertson, Mo. <b>KGTR</b>          Springfield, Mo. <b>KGTO</b>          Tulsa, Okla. <b>KSY</b>          Wichita, Kans. <b>KGTD</b>          Winslow, Ariz. <b>KGTA</b></p>	<p>Birmingham, Ala. <b>WSDE</b>          Boston, Mass. <b>WSDD</b>          Mobile, Ala. <b>WAEK</b>          Newark, N. J. <b>WSDC</b>          Tucson, Ariz. <b>KGUO</b></p>	<p>Duluth, Minn. <b>WSDL</b>          Fargo, N. D. <b>KNWB</b>          Madison, Wis. <b>WSDR</b>          Milwaukee, Wis. <b>WAEH</b>          Pembina, N. D. <b>KNWC</b>          St. Paul, Minn. <b>KNWA</b></p>				
<p><b>Group Two</b> <input type="checkbox"/></p> <p>103.23 m.-2905 kc. 60.15 m.-4990 kc.          97.63 m.-3070 kc. 54.45 m.-5510 kc.          97.15 m.-3090 kc. 53.83 m.-5570 kc.          94.86 m.-3160 kc. 53.74 m.-5580 kc.          94.56 m.-3170 kc. 53.64 m.-5590 kc.          94.26 m.-3180 kc. 52.98 m.-5660 kc.          93.29 m.-3215 kc. 52.88 m.-5670 kc.          60.39 m.-4970 kc. 52.7 m.-5690 kc.</p> <p>Denver, Colo. <b>KGSP</b>          Las Vegas, Nev. <b>KGTV</b>          Pueblo, Colo. <b>KGSR</b>          Salt Lake City, Utah <b>KGTH</b></p>	<p><b>Group Three</b> <input type="checkbox"/></p> <p>103.23 m.-2905 kc. 60.15 m.-4990 kc.          97.63 m.-3070 kc. 54.45 m.-5510 kc.          97.15 m.-3090 kc. 53.83 m.-5570 kc.          94.86 m.-3160 kc. 53.74 m.-5580 kc.          94.56 m.-3170 kc. 53.64 m.-5590 kc.          94.26 m.-3180 kc. 52.98 m.-5660 kc.          93.29 m.-3215 kc. 52.88 m.-5670 kc.          60.39 m.-4970 kc. 52.7 m.-5690 kc.</p> <p>Abilene, Tex. <b>KGUL</b>          Beaumont, Tex. <b>KGTV</b></p>	<p><b>Group Four</b> <input type="checkbox"/></p> <p>103.23 m.-2905 kc. 60.15 m.-4990 kc.          97.63 m.-3070 kc. 54.45 m.-5510 kc.          97.15 m.-3090 kc. 53.83 m.-5570 kc.          94.86 m.-3160 kc. 53.74 m.-5580 kc.          94.56 m.-3170 kc. 53.64 m.-5590 kc.          94.26 m.-3180 kc. 52.98 m.-5660 kc.          93.29 m.-3215 kc. 52.88 m.-5670 kc.          60.39 m.-4970 kc. 52.7 m.-5690 kc.</p> <p>Atlanta, Ga. <b>WQPD</b>          Big Spring, Tex. <b>KGUG</b>          Brownsville, Tex. <b>KGUE</b>          Burbank, Calif. <b>KGUR</b>          Cincinnati, Ohio <b>WSID</b>          Dallas, Tex. <b>KGUF</b>          Douglas, Ariz. <b>KGUN</b>          El Paso, Tex. <b>KGUA</b>          Frijole, Tex. <b>KGUM</b>          Indio, Calif. <b>KGUQ</b>          Jackson, Miss. <b>KSDB</b>          Little Rock, Ark. <b>KQUU</b>          Memphis, Tenn. <b>WSDK</b>          Nashville, Tenn. <b>WSDT</b>          New Orleans, La. <b>WQDQ</b>          Omaha, Nebr. <b>KGTS</b>          Phoenix, Ariz. <b>KGUP</b>          Robertson, Mo. <b>KGUT</b>          San Antonio, Tex. <b>KGUD</b>          Shreveport, La. <b>KGUK</b>          Springfield, Ill. <b>WAEJ</b>          Waco, Tex. <b>KGUH</b></p>	<p><b>Group Five</b> <input type="checkbox"/></p> <p>129.63 m.-2315 kc. 86.08 m.-3490 kc.          127.33 m.-2355 kc. 63.29 m.-4740 kc.          93.09 m.-3220 kc. 61.00 m.-4920 kc.          92.8 m.-3230 kc. 53.55 m.-5600 kc.          92.52 m.-3240 kc. 53.45 m.-5610 kc.          92.09 m.-3260 kc. 53.26 m.-5630 kc.          87.02 m.-3450 kc. 45.87 m.-6540 kc.          86.77 m.-3460 kc. 45.8 m.-6550 kc.          86.52 m.-3470 kc. 37.43 m.-8015 kc.</p> <p><b>Group Six</b> <input type="checkbox"/></p> <p>112.44 m.-2670 kc. 98.83 m.-3040 kc.          112.27 m.-2675 kc. 55.79 m.-5380 kc.          105.11 m.-2850 kc.</p> <p>Chicago, Ill. <b>WSDS</b></p>	<p><b>Group Seven</b> <input type="checkbox"/></p> <p>111.19 m.-2680 kc. 51.5 m.-5820 kc.          102.1 m.-2935 kc.</p> <p>Detroit, Mich. <b>WAEI</b></p>	<p><b>Group Eight</b> <input type="checkbox"/></p> <p>129.63 m.-2310 kc. 45.87 m.-6540 kc.          127.33 m.-2355 kc. 45.8 m.-6550 kc.          86.52 m.-3470 kc. 45.73 m.-6560 kc.          63.29 m.-4740 kc. 37.45 m.-8010 kc.</p> <p>Blythe, Calif. <b>KGUS</b>          Houston, Tex. <b>KGUB</b></p>	<p><b>Group Nine</b> <input type="checkbox"/></p> <p>126.1 m.-2380 kc. 63.22 m.-4740 kc.          101.83 m.-2950 kc. 53.07 m.-5650 kc.          100.46 m.-2990 kc. 45.52 m.-6590 kc.          72.11 m.-4160 kc. 45.45 m.-6600 kc.</p> <p>Baltimore, Md. <b>WEEB</b>          Charleston, S. Car. <b>WEEC</b>          Greensboro, N. Car. <b>WEEG</b>          Jacksonville, Fla. <b>WEEJ</b>          Linden, N. J. <b>WEEN</b>          McRae, Ga. <b>WEEH</b>          Miami, Fla. <b>WEEM</b>          Orlando, Fla. <b>WEEO</b>          Richmond, Va. <b>WEER</b>          Spartanburg, S. Car. <b>WEEF</b></p>	<p><b>Group Ten</b> <input type="checkbox"/></p> <p>113.29 m.-2650 kc. 45.59 m.-6580 kc.          104.53 m.-2870 kc. 37.43 m.-8010 kc.          97.32 m.-3080 kc. 36.5 m.-8220 kc.          55.5 m.-5400 kc. 24.33 m.-12,330 kc.          53.64 m.-5700 kc. 18.47 m.-16,240 kc.          45.66 m.-6570 kc. 18.24 m.-16,450 kc.</p> <p>Brownsville, Tex. <b>KGJW</b>          Miami, Fla. <b>WKDL</b>          San Juan, P. R. <b>WMDV</b></p>

## AIRPORT RADIO STATIONS—Alphabetically by Call Letters

The number in parenthesis following the location indicates the frequency group in which the station operates.

<p><b>KGTY</b> Butte, Mont. (2)  <b>KEU</b> Burbank, Calif. (1)  <b>KFM</b> Sacramento, Calif. (1)  <b>KFO</b> Oakland, Calif. (1)  <b>KGE</b> Medford, Ore. (1)  <b>KGUC</b> Ft. Worth, Tex. (1)  <b>KGJW</b> Brownsville, Tex. (10)  <b>KGQZ</b> San Diego, Calif.  <b>KGSB</b> Alameda, Calif. (2)  <b>KGSP</b> Denver, Colo. (3)  <b>KGSR</b> Pueblo, Colo. (3)  <b>KGT</b> Fresno, Calif. (1)  <b>KGTA</b> Winslow, Ariz. (2)  <b>KGTD</b> Wichita, Kans. (2)  <b>KGTE</b> Wichita, Kans. (1)  <b>KGTH</b> Salt Lake City, U. (3)  <b>KGTT</b> Las Vegas, Nev. (3)  <b>KGTL</b> Kingman, Ariz. (2)  <b>KGTN</b> Las Vegas, Nev. (2)  <b>KGTO</b> Springfield, Mo. (2)  <b>KGTR</b> Robertson, Mo. (2)  <b>KGTS</b> Omaha, Neb. (5)  <b>KGTV</b> Beaumont, Tex. (4)  <b>KGTX</b> Pocatello, Idaho (2)</p>	<p><b>KGTZ</b> Spokane, Wash. (1)  <b>KGUA</b> El Paso, Tex. (5)  <b>KGUB</b> Houston, Tex. (8)  <b>KGUD</b> San Antonio, Tex. (5)  <b>KGUE</b> Brownsville, Tex. (5)  <b>KGUF</b> Dallas, Tex. (5)  <b>KGUG</b> Big Spring, Tex. (5)  <b>KGUH</b> Waco, Tex. (5)  <b>KGUK</b> Shreveport, La. (5)  <b>KGUL</b> Abilene, Tex. (4)  <b>KGUM</b> Frijole, Tex. (5)  <b>KGUN</b> Douglas, Ariz. (5)  <b>KGUO</b> Tucson, Ariz. (4)  <b>KGUP</b> Phoenix, Ariz. (5)  <b>KGUQ</b> Indio, Calif. (5)  <b>KGUR</b> Burbank, Calif. (5)  <b>KGUS</b> Blythe, Calif. (8)  <b>KGUT</b> Robertson, Mo. (5)  <b>KGUZ</b> Ponca City, Okla. (1)  <b>KKO</b> Elko, Neva. (1)  <b>KMP</b> Omaha, Neb. (1)  <b>KMR</b> No. Platte, Nebr. (1)  <b>KNAS</b> Kansas City, Mo. (1)  <b>KNAT</b> Dallas, Tex. (1)</p>	<p><b>KNAU</b> Tulsa, Okla. (1)  <b>KNAV</b> Okla. City, Okla. (1)  <b>KNWA</b> St. Paul, Minn. (6)  <b>KNWB</b> Fargo, N. D. (6)  <b>KNWC</b> Pembina, N. D. (6)  <b>KOE</b> Cheyenne, Wyo. (1)  <b>WAEC</b> Pittsburgh, Pa. (2)  <b>WAED</b> Harrisburg, Pa. (2)  <b>WAE</b> Camden, N. J. (2)  <b>WAEF</b> Newark, N. J. (2)  <b>WAEG</b> Cresson, Pa. (2)  <b>WAEH</b> Milwaukee, Wis. (6)  <b>WAEI</b> Detroit, Mich. (7)  <b>WAEJ</b> Springfield, Ill. (5)  <b>WAEK</b> Mobile, Ala. (4)  <b>WEEB</b> Baltimore, Md. (9)  <b>WEEC</b> Charleston, S. C. (9)  <b>WEEF</b> Spartanburg, S.C. (9)  <b>WEEG</b> Greensboro, N.C. (9)  <b>WEEH</b> McRae, Ga. (9)  <b>WEEJ</b> Jacksonville, Fla. (9)  <b>WEEM</b> Miami, Fla. (9)  <b>WEEN</b> Linden, N. J. (9)  <b>WEEO</b> Orlando, Fla. (9)</p>	<p><b>WEER</b> Richmond, Va. (9)  <b>WHC</b> Columbus, Ohio (2)  <b>WHM</b> Indianapolis, Ind. (2)  <b>WKDL</b> Miami, Fla. (10)  <b>WMDV</b> San Juan, P. R. (10)  <b>WNAO</b> Newark, N. J. (1)  <b>WNAK</b> Cleveland, Ohio (1)  <b>WNAL</b> Brookville, Pa. (1)  <b>WNAM</b> Bellefont, Pa. (1)  <b>WNAT</b> Orlando Twpshp., Ill. (1)  <b>WNAU</b> Moline, Ill. (1)  <b>WQDQ</b> New Orleans, La. (5)  <b>WQPD</b> Atlanta, Ga. (5)  <b>WSDC</b> Newark, N. J. (4)  <b>WSDD</b> Boston, Mass. (4)  <b>WSDE</b> Birmingham, Ala. (4)  <b>WSDK</b> Memphis, Tenn. (5)  <b>WSDL</b> Duluth, Minn. (6)  <b>WSDS</b> Chicago, Ill. (6)  <b>WSDT</b> Nashville, Tenn. (5)  <b>WSID</b> Cincinnati, Ohio (5)  <b>WUCG</b> Chicago, Ill. (1)</p>
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# POLICE RADIO ALARM STATIONS

By Frequency and Wavelength

**2506 kc.-120 m.**  
Dial:   
KGZE San Antonio, Tex.

**2470 kc.-121.5 m.**  
Dial:   
KGOZ Cedar Rapids, Ia.  
KGNP Davenport, Ia.  
KGZG Des Moines, Ia.  
WPDZ Fort Wayne, Ind.  
WPDT Kokomo, Ind.  
WPEC Memphis, Tenn.  
KGPI Omaha, Neb.  
WPDZ Philadelphia, Pa.  
KGPV San Jose, Cal.  
KGPW Salt Lake City, U.  
KGPX Sioux City, Ia.  
WRDQ Toledo, Ohio  
WPFJ Gary, Ind.  
WPFQ Swarthmore, Pa.  
WPFK Knoxville, Tenn.  
WPFV Johnson City, Tenn.  
WPEM Woonsocket, R. I.  
WPFV Pawtucket, R. I.

**2458 kc.-122.0 m.**  
Dial:   
WPDO Akron, Ohio  
WPDN Auburn, N. Y.  
WPDV Charlotte, N. C.  
WRDH Cleveland, Ohio  
WPDR Rochester, N. Y.  
WPEA Syracuse, N. Y.  
KGZS McAlester, Okla.  
WPDG Youngstown, O.

**2450 kc.-122.4 m.**  
Dial:   
WPKD Milwaukee, Wis.

WPEE New York, N. Y.  
WPEF New York, N. Y.  
WPEG New York, N. Y.  
KGPH Okla. City, Okla.  
KGPO Tulsa, Okla.  
KGPZ Wichita, Kans.  
KGZF Chanute, Kans.  
KGZP Coffeyville, Kans.  
KGPQ Honolulu, T. H.

**2442 kc.-122.8 m.**  
Dial:   
KGPX Denver, Col.  
WPDF Flint, Mich.  
WPEB Grd. Rapids, Mich.  
WMDZ Indianapolis, Ind.  
WPDZ Lansing, Mich.  
WPDE Louisville, Ky.  
KGPV Portland, Ore.  
WPDH Richmond, Ind.  
KGZH Klamath Falls, Ore.  
WPFK Muskegon, Mich.  
WPFV Reading, Pa.  
KGZR Salem, Ore.  
WPES Saginaw, Mich.

**2430 kc.-123.4 m.**  
Dial:   
WPEK New Orleans, La.  
KGPB Minneapolis, Minn.  
WPDZ Columbus, Ohio  
KGPV Portland, Ore.  
WPDZ Dayton, Ohio  
KGZD San Diego, Cal.  
WPFJ Highland Park, Ill.  
WPFV Toms River, N. J.  
WPFK Hackensack, N. J.  
KGZJ Phoenix, Ariz.

**2422 kc.-123.8 m.**  
Dial:

WMJ Buffalo, N. Y.  
KGPE Kansas City, Mo.  
KGZC Topeka, Kan.  
KGPV Vallejo, Cal.  
WPDW Washington, D. C.  
WPFV Jacksonville, Fla.  
WPFU Portland, Me.

**2414 kc.-124.2 m.**  
Dial:   
KSW Berkeley, Cal.  
WPDY Atlanta, Ga.  
KGPS Bakersfield, Cal.  
WCK Belle Island, Mich.  
WPDZ Detroit, Mich.  
KGZA Fresno, Cal.  
WRDR Grosse Pt. Vil. Mich.  
WMO Highland Pk., Mich.  
KGPV Seattle, Wash.  
WPDZ Tulare, Cal.  
KGZM El Paso, Tex.  
WPFH Baltimore, Md.  
KGZV Tacoma, Wash.  
WPFV Columbus, Ga.  
WPFM Birmingham, Ala.  
WPFV Clarksburg, W. Va.  
KGZO Santa Barbara, Cal.  
KGPV San Francisco, Cal.  
WPFV Yonkers, N. Y.  
WPGV Port Huron, Mich.

**1712 kc.-175.15 m.**  
Dial:   
WPEV Arlington, Mass.  
KGPJ Beaumont, Tex.  
WPKB Chicago, Ill.  
WPKC Chicago, Ill.  
WPKD Chicago, Ill.  
WPKD Cincinnati, Ohio  
KVP Dallas, Tex.  
KGPL Los Angeles, Cal.

KGJX Pasadena, Cal.  
WPDU Pittsburgh, Pa.  
KGPC St. Louis, Mo.  
KGZI Wichita Falls, Tex.  
WPFV Newton, Mass.  
KGZL Shreveport, La.  
WPEH Somerville, Mass.  
WPEP Arlington, Mass.  
KGZB Houston, Tex.  
WPFJ Hammond, Ind.  
WPFN Fairhaven, Mass.  
KGZQ Waco, Tex.  
WPET Lexington, Mass.  
WPEI E. Providence, R. I.  
UYR Montreal, Can.

**1574 kc.-189.5 m.**  
Dial:   
WRDS E. Lansing, Mich.  
WMP Fram'gham, Mass.  
WPEW North'pton, Mass.  
KGPV Shreveport, La.  
WPEL Middleboro, Mass.  
WPEV Portable, Mass.

**1558 kc.-192.5 m.**  
Dial:   
WEY Boston, Mass.  
WKDT Detroit, Mich.

**1534 kc.-196.1 m.**  
Dial:   
KGHO Des Moines, Ia.

**190 kc.-1570 m.**  
Dial:   
WBR Butler, Pa.  
WJL Greensburg, Pa.  
WBA Harrisburg, Pa.  
WMB W. Reading, Pa.  
WDX Wyoming, Pa.

## Alphabetically By Call Letters

KGHO	Des Moines, Iowa	1534 kc.	KGZS	McAlester, Okla.	2458 kc.	WPEA	Syracuse, N. Y.	2458 kc.
KGJX	Pasadena, Cal.	1712 kc.	KSW	Berkeley, Cal.	2414 kc.	WPEB	Grand Rapids, Mich.	2442 kc.
KGOZ	Cedar Rapids, Iowa	2470 kc.	KVP	Dallas, Tex.	1712 kc.	WPEC	Memphis, Tenn.	2470 kc.
KGPA	Seattle, Wash.	2414 kc.	UYR	Montreal, Can.	1712 kc.	WPED	Arlington, Mass.	1712 kc.
KGPB	Minneapolis, Minn.	2430 kc.	WBA	Harrisburg, Pa.	190 kc.	WPEE	New York, N. Y.	2450 kc.
KGPC	St. Louis, Mo.	1712 kc.	WBR	Butler, Pa.	190 kc.	WPEF	New York, N. Y.	2450 kc.
KGPD	San Francisco, Cal.	2414 kc.	WCK	Belle Island, Mich.	2414 kc.	WPEG	New York, N. Y.	2450 kc.
KGPE	Kansas City, Mo.	2422 kc.	WDX	Wyoming, Pa.	190 kc.	WPEH	Somerville, Mass.	1712 kc.
KGPG	Vallejo, Cal.	2422 kc.	WEY	Boston, Mass.	1558 kc.	WPEI	E. Providence, R. I.	1712 kc.
KGPH	Oklahoma City, Okla.	2450 kc.	WJL	Greensburg, Pa.	190 kc.	WPEK	New Orleans, La.	2430 kc.
KGPI	Omaha, Neb.	2470 kc.	WKDT	Detroit, Mich.	1558 kc.	WPEL	Middleboro, Mass.	1574 kc.
KGPJ	Beaumont, Tex.	1712 kc.	WKDU	Cincinnati, Ohio	1712 kc.	WPEM	Woonsocket, R. I.	2470 kc.
KGPV	Sioux City, Iowa	2470 kc.	WMB	W. Reading, Pa.	190 kc.	WPEP	Arlington, Mass.	1712 kc.
KGPL	Los Angeles, Cal.	1712 kc.	WMDZ	Indianapolis, Ind.	2442 kc.	WPES	Saginaw, Mich.	2442 kc.
KGPM	San Jose, Cal.	2470 kc.	WMJ	Buffalo, N. Y.	2422 kc.	WPET	Lexington, Mass.	1712 kc.
KGNP	Davenport, Iowa	2470 kc.	WMO	Highland Park, Mich.	2414 kc.	WPEV	Portable, Mass.	1574 kc.
KGPO	Tulsa, Okla.	2450 kc.	WMP	Framingham, Mass.	1574 kc.	WPFV	Newton, Mass.	1712 kc.
KGPP	Portland, Ore.	2442 kc.	WPDZ	Tulare, Cal.	2414 kc.	WPFK	Muskegon, Mich.	2442 kc.
KGQV	Honolulu, T. H.	2450 kc.	WPKB	Chicago, Ill.	1712 kc.	WPFJ	Highland Park, Ill.	2430 kc.
KGPR	Ft. Worth, Tex.	2414 kc.	WPKC	Chicago, Ill.	1712 kc.	WPFV	Reading, Pa.	2442 kc.
KGPS	Bakersfield, Cal.	2414 kc.	WPKD	Chicago, Ill.	1712 kc.	WPFH	Toms River, N. J.	2430 kc.
KGPW	Salt Lake City, Utah	2470 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Jacksonville, Fla.	2442 kc.
KGPP	Denver, Colo.	2442 kc.	WPKD	Dallas, Tex.	2458 kc.	WPFH	Baltimore, Md.	2414 kc.
KGPY	Baton Rouge, La.	1574 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Columbus, Ga.	2414 kc.
KGPZ	Wichita, Kans.	2450 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFJ	Hammond, Ind.	1712 kc.
KGZA	Fresno, Calif.	2414 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFK	Hackensack, N. J.	2430 kc.
KGZB	Houston, Tex.	1712 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Gary, Ind.	2470 kc.
KGZC	Topeka, Kan.	2422 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFM	Birmingham, Ala.	2414 kc.
KGZD	San Diego, Cal.	2430 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFN	Fairhaven, Mass.	1712 kc.
KGZE	San Antonio, Tex.	2506 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Knoxville, Tenn.	2470 kc.
KGZF	Chanute, Kans.	2450 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Clarksburch, W. Va.	2414 kc.
KGZG	Des Moines, Iowa	2470 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Swarthmore, Pa.	2470 kc.
KGZH	Klamath Falls, Ore.	2442 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Johnson City, Tenn.	2470 kc.
KGZI	Wichita Falls, Tex.	1712 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Portland, Me.	2422 kc.
KGZJ	Phoenix, Ariz.	2430 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Pawtucket, R. I.	2470 kc.
KGZL	Shreveport, La.	1712 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPFV	Yonkers, N. Y.	2422 kc.
KGZM	El Paso, Tex.	2414 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WPGV	Port Huron, Mich.	2414 kc.
KGZV	Tacoma, Wash.	2414 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WRDH	Cleveland, Ohio	2458 kc.
KGZO	Santa Barbara, Cal.	2414 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WRDR	Grosse Pt. Village, Mich.	2414 kc.
KGZP	Coffeyville, Kans.	2450 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WRDQ	Toledo, Ohio	2470 kc.
KGZQ	Waco, Tex.	1712 kc.	WPKD	Cincinnati, Ohio	1712 kc.	WRDS	E. Lansing, Mich.	1574 kc.
KGZR	Salem, Ore.	2442 kc.	WPKD	Cincinnati, Ohio	1712 kc.			

# TELEVISION STATIONS

Television transmission at the present time is highly experimental in nature, and for this reason it is difficult to give operating hours, scanning speeds, lines per second, etc., with any degree of accuracy.

<p style="text-align: center;"><b>According to frequency and wavelength</b></p> <hr/> <p>1600-1700 kc.    176.5-187.5 m.</p> <p style="text-align: center;">Dial:</p> <p>W2XR—Radio Pictures, Inc. Long Island City, N. Y. 1000 watts. 60 lines</p> <hr/> <p>W8XAN — Sparks-Withington Co. Jackson, Mich. 100 watts</p> <hr/> <p>2000-2100 kc.    142.9-150 m.</p> <p style="text-align: center;">Dial:</p> <p>W9XAO—Western Television Corp. Chicago, Ill. 500 watts. 45 lines</p> <hr/> <p>W6XAH—Pioneer Mercantile Co. Bakersfield, Cal. 1000 watts. 60 lines</p> <hr/> <p>W9XK—Iowa State University Iowa City, Iowa 100 watts. 60 lines</p>	<p>2100-2200 kc.    136.4-142.9 m.</p> <p style="text-align: center;">Dial:</p> <p>W3XAK—National Broadcasting Co. 5000 watts. Portable</p> <hr/> <p>W2XBS—National Broadcasting Co. New York, N. Y. 5000 watts</p> <hr/> <p>W6XS—Don Lee Broadcasting Corp. Los Angeles, Calif. 1000 watts</p> <hr/> <p>W9XAP—National Broadcasting Co. Chicago, Ill. 2,500 watts</p> <hr/> <p>W9XAK—Kansas State College, Manhattan, Kans. 125 watts</p> <hr/> <p>2200-2300 kc.    130.4-136.4 m.</p> <p style="text-align: center;">Dial:</p> <p>W9XAL—First National Television Corp. Kansas City, Mo. 500 watts</p> <hr/> <p>2750-2850 kc.    105.3-109.1 m.</p> <p style="text-align: center;">Dial:</p>	<p>W9XC—Purdue University W. Lafayette, Ind. 1500 watts. 60 lines</p> <hr/> <p>W2XAB—Atlantic Broadcasting Corp. New York, N. Y. 500 watts (not oper.)</p> <hr/> <p>43,000-46,000 kc.    6.52-6.98 m. 48,500-50,300 kc.    6.00-6.20 m. 60,000-80,000 kc.    3.75-5.00 m.</p> <p style="text-align: center;">Dial:</p> <p>W9XD—The Journal Co. Milwaukee, Wis. 500 watts</p> <hr/> <p>W9XE—U. S. Radio &amp; Tele. Corp. Marion, Ind. 1000 watts</p> <hr/> <p>W8XF—WJR-Goodwill Station Pontiac, Mich. 200 watts</p> <hr/> <p>W3XAD—RCA-Victor Co., Camden, N. J. 2000 watts</p> <hr/> <p>W2XBT—National Broadcasting Co. Portable 750 watts</p> <hr/> <p>W2XR—Radio Pictures, Inc. Long Island City, N. Y. 1000 watts</p>	<p>W9XAT—Dr. Geo. W. Young Portable 500 watts</p> <hr/> <p>W2XF—National Broadcasting Co. New York, N. Y. 5000 watts</p> <hr/> <p>W6XAO—Don Lee Broadcasting System Los Angeles, Calif. 150 watts</p> <hr/> <p>W3XE—Philadelphia Storage Battery Co. Philadelphia, Pa. 1500 watts</p> <hr/> <p>W2XAK—Atlantic Broadcasting Corp., New York, N. Y. 50 watts</p> <hr/> <p>W10XX—RCA-Victor Co., Portable and Mobile. 50 watts</p> <hr/> <p>W8XAN—Sparks-Withington Co., Jackson, Mich. 100 watts</p> <hr/> <p>W8XL—WGAR Broadcasting Co., Cuyahoga Hts., Ohio 200 watts</p>
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### “R” Audibility System

Use the “Q, R, & T” systems together to give the clearest reports on signals. Thus: “Ur R7 but QSA3 & T2.”

- R1—Faint signals; just readable.
- R2—Weak signals; barely readable.
- R3—Weak signals; but can be copied.
- R4—Fair signals; easily readable.
- R5—Moderately strong signals.
- R6—Good signals.
- R7—Good strong signals, that come thru QRM & QRN.
- R8—Very strong signals; heard several feet from the fones.
- R9—Extremely strong sigs.

### Amateur Abbreviations

The following tables are in constant use by the transmitting amateurs. The “Q” table is strictly a readability system and should not be used to indicate signal strength. The “R” system is for this purpose and should not be governed by the readability of a signal. In other words a signal could be QSA5—very good signals; perfectly readable, but still weak. This would be a QSA5 R3 signal.

The “T” system is used mostly in foreign countries but is a very accurate method of reporting tone quality and should be used more extensively. The other abbreviations are used during direct conversation and it will be noticed that with a few exceptions most of the vowels are eliminated from the words.

### “Q” Readability System

- QSA1—Hardly perceptible; unreadable.
- QSA2—Weak; readable only now and then.
- QSA3—Fairly good; readable with difficulty.
- QSA4—Good readable signals.
- QSA5—Very good signals; perfectly readable.

### “T” Tone System

- T1—(“Ur tone 1, R6”) Poor 25 or 60 cycle AC tone.
- T2—Rough 60 cycles AC tone.
- T3—Poor RAC tone. Sounds like no filter.
- T4—Fair RAC, small filter.
- T5—Nearly DC tone, good filter, but has key thumps, or back wave, etc.
- T6—Nearly DC tone. Very good filter; keying OK.
- T7—Pure DC tone, but has key thumps, back wave, etc.
- T8—Pure DC, not equal to T9.
- T9—Best steady, pure, crystal controlled DC tone.

## OTHER ABBREVIATIONS

- |  |  |   |   |  |
|--|--|---|---|--|
| <p>MK?—Are you ready to receive messages?<br/>MK—I am ready. Go ahead with messages.<br/>QLF—Sa, OM, send with your LEFT foot now!<br/>QLZ—Nothing doing. Operator is too lazy!<br/>QRR—General call for all emergency railroad traffic, in U. S. A. only, during storms, floods, etc.</p> | <p>QSL—Please acknowledge our QSO by card. I will do same.<br/>QST—General call to all A. R. R. L. stations.<br/>QWX?—How is the weather there?<br/>C—see<br/>CUL—see you later<br/>DX—distance<br/>ES—and</p> | <p>FB—fine business<br/>HL—indicates laugh<br/>HR—here, hear<br/>HRD—heard<br/>HV—have<br/>HVV—heavy<br/>MI—my<br/>ND—nothing doing<br/>NG—no good<br/>NIL—nothing<br/>OB—old boy</p> | <p>OM—old man<br/>OP—operator<br/>OW—old woman<br/>PDC—pure DC tone<br/>PSE—please<br/>PWR—power<br/>R—OK, yes, all right<br/>RITE—right<br/>SA—say<br/>S&amp;D—said<br/>SIG—signal</p> | <p>SKED—schedule<br/>SUM—some<br/>TT—that<br/>U—you<br/>UR—your<br/>URS—yours<br/>WX—weather<br/>XYL—wife<br/>YL—young lady, girl friend<br/>73—regards<br/>88—love and kisses</p> |
|--|--|---|---|--|

# Local Time Throughout the World

The table below may be used to determine the time, at any other place in the world, corresponding to your own time, provided you know its location.

Pick out your own time zone; it is a good idea to rule a red line on each side of it, across the page, for convenience in consulting it. Take the hour at your own locality, and run your finger directly up or down till you find the

zone in which the station you are looking up is located. If necessary, consult the map. Read the hour, above or below your own, and add the minutes. If, in going up or down, you cross the (MN) (midnight) line, then change the date accordingly—to the day before, if you are going down, or the day after, if you are going up. The hours given as G. M. T., or G. C. T., should be read from the central line, between black cross rules.

App. Longitudes of Zone

M IS NOON; LIGHT FACE FIGURES, A. M.; BLACK FACE FIGURES P. M.

180° -172½° E.   Date Line—Fiji Islands.	MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7	8	9	10	11	MN																						
172½°-157½° E.   New Zealand	11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7	8	9	10	11																					
157½°-142½° E.   Eastern Australia	10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7	8	9	10																				
142½°-127½° E.   Japan—W. Australia	9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7	8	9																			
127½°-112½° E.   Philippines—China	8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7	8																		
112½°- 97½° E.   Siam—Annam	7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6	7																	
97½°- 82½° E.   India—East	6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5	6																
82½°- 67½° E.   India—West	5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4	5															
67½°- 52½° E.   Persia	4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3	4														
52½°- 37½° E.   Arabia	3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2	3													
37½°- 22½° E.   Russia—Egypt	2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2												
22½°- 7½° E.   Germany—Italy	1		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2										
7½° E.- 7½° W.   England, France - Greenwich	M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11	M		2										
7½°- 22½° W.   W. Africa—Iceland	11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10	11											
22½°- 37½° W.   Atlantic Ocean	10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9	10										
37½°- 52½° W.   Greenland—Brazil	9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8	9									
52½°- 67½° W.   E. Can.—Argentina	8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7	8								
67½°- 82½° W.   U.S. Eastern—Peru	7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6	7							
82½°- 97½° W.   U.S. Central—Mex.	6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5	6						
97½°-112½° W.   U.S. Mountain	5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4	5					
112½°-127½° W.   U.S. Pacific	4		5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3	4				
127½°-142½° W.   Eastern Alaska	3		4		5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2	3			
142½°-157½° W.   Central Alaska*	2		3		4		5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2		
157½°-172½° W.   Western Alaska	1		2		3		4		5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2
172½°-180° W.   Date Line—Samoa	MN		2		3		4		5		6		7		8		9		10		11		M		2		3		4		5		6		7		8		9		10		11		MN		2

\*Hawaii is in a special time zone; so are Holland, Java, and other countries; consult Time Zone Map.

EXAMPLE: What time is it in Sydney, Australia, if it is 8:20 p. m. Monday in San Francisco? Put a finger on the blackface 8, opposite "U. S. Pacific" and run straight up the column till opposite "Eastern Australia." You cross an "MN", going up; so the time in Australia is Tomorrow; the 2 is blackface, so the hour is afternoon. Allowing for the extra minutes, it is 2:20 p. m. Tuesday in Sydney.

The hour is the same, in each of the Date Line Half Zones, but the date is a day later, on the west side of the line. The boundaries of time zones are only approximately north and south, as they follow political divisions.



# AIR LINE DISTANCES OVER THE SURFACE OF THE EARTH

Everyone who has studied geography is familiar with the map called "Mercator's Projection," which for more than three centuries has been the basis for all world maps. Since the earth is round and a map is flat, all ordinary maps give a very distorted idea as to the actual geographical relationship existing between distant

countries, and as a distance and direction guide for the short wave fan they are altogether useless. If you want to know the real airline distances between important places, use a string and measure them on the face of a globe, or refer to the more convenient chart below. This is easily consulted and saves the radio fan the

trouble of figuring the distance according to the somewhat cramped scale on the globe.

Space limitations make it impractical to include many small cities. However, the places shown are scattered in such a manner that approximate distances to nearby places may readily be calculated.

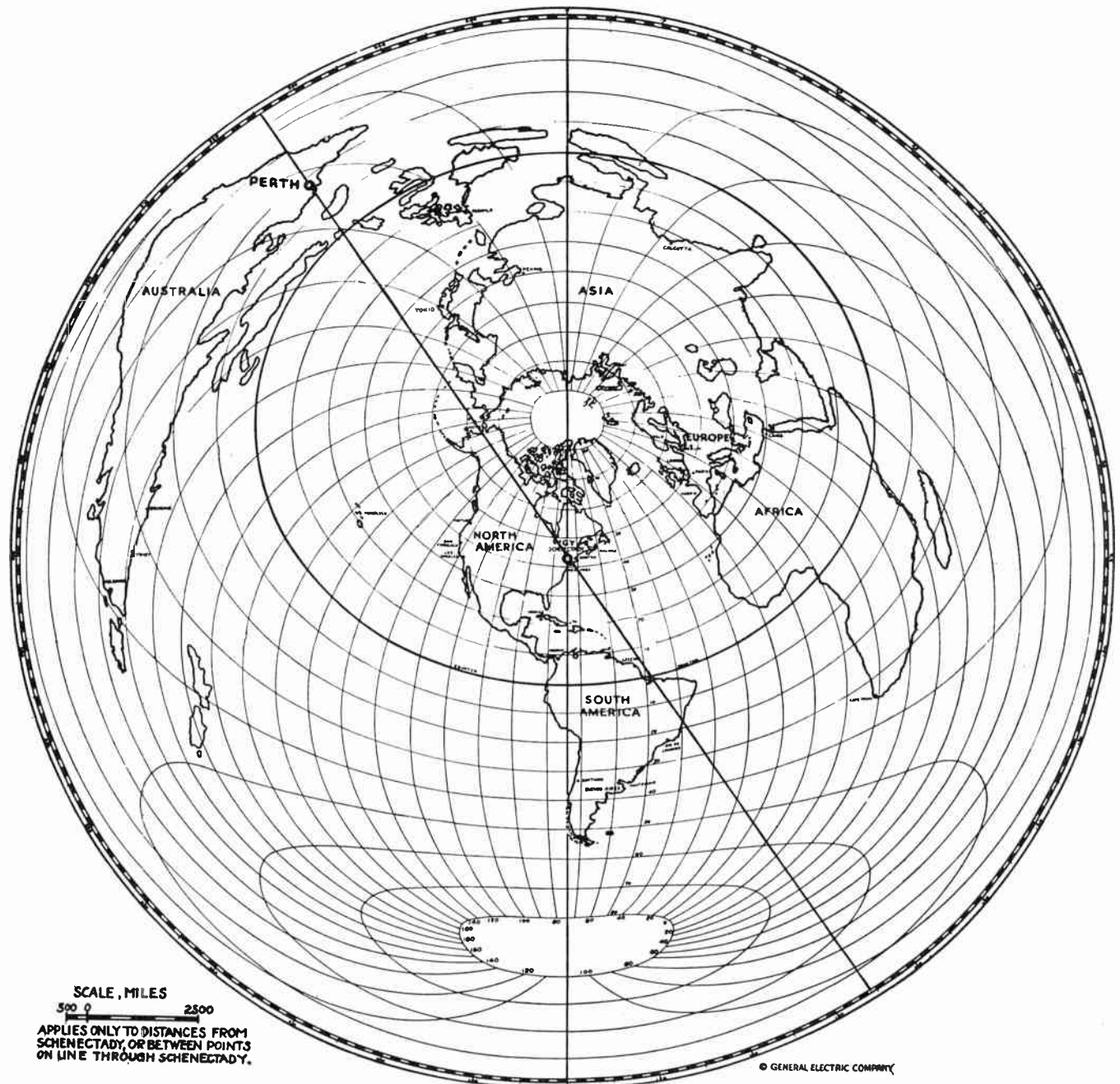
		NORTH AMERICA					SOUTH AMERICA		AFRICA		EUROPE				EUROPE-ASIA		ASIA			OCEANIA							
		Montreal, Que.	New York, N. Y.	Pittsburgh, Pa.	Chicago, Ill.	Denver, Colo.	Los Angeles, Cal.	San Francisco, Cal.	Rio de Janeiro, Brazil.	Buenos Aires, Argentina	Cairo, Egypt	Cape Town, U. of S. A.	Madrid, Spain	London, England	Paris, France	Rome, Italy	Vienna, Austria	Stockholm, Sweden	Leningrad, U. S. S. R.	Moscow, U. S. S. R.	Calcutta, India	Bandoeng, Java	Manila, P. I.	Tokyo, Japan	Melbourne, Victoria	Sydney, New So. Wales	
		314	429	671	1000	1528	2278	2298	5117	5742	5469	7891	3398	3164	3477	4062	3984	3555	3906	4219	7578	9766	8144	6434	10440	10031	
		1271	313	711	1271	1628	2446	2568	4766	5352	5586	7695	3477	3320	3555	4180	4141	3789	4102	4453	7773	10039	8144	6434	10522	10111	
		411	1128	1320	2135	2264	4922	5430	5820	7969	3789	3633	3867	4492	4414	3789	4414	4727	4492	4844	7930	10273	8320	6484	10039	9687	
		800	1486	1402	3937	6328	6094	8984	6336	9180	4258	3867	4141	4805	4648	3084	4258	4570	5000	5352	7344	9023	7305	4219	9713	8904	
		345	6250	6133	7578	8922	5742	5508	5769	6475	6094	5352	5706	6156	5706	6156	5706	6156	5706	6156	7930	8828	7345	5504	7930	7500	
		1523	6475	6328	7500	10078	5703	5273	5664	6314	6055	5273	5504	5928	5504	5928	5504	5928	5504	5928	7695	8633	7041	5182	7891	7461	
		2266	3711	703	2266	3711	703	2266	3711	703	2266	3711	703	2266	3711	703	2266	3711	703	2266	3711	703	2266	3711	703	2266	3711
		2148	3398	859	156	2187	1445	1563	859	156	2187	1445	1563	859	156	2187	1445	1563	859	156	2187	1445	1563	859	156	2187	1445
		1914	2539	2305	1562	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539
		2344	2734	2656	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539	
		2422	2773	2656	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539	2305	1562	1875	1445	586	117	1914	2539	
		3711	5117	2695	3477	3516	4766	4922	5312	1953	1953	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703
		1992	1094	3750	2969	1914	1953	1953	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703	3703
		2070	3594	273	898	816	810	2422	2734	2422	2539	3672	2852	3398	352	352	352	352	352	352	352	352	352	352	352	352	352
		1953	3437	352	586	570	715	2109	2422	2422	2539	3672	2852	3398	352	352	352	352	352	352	352	352	352	352	352	352	352
		1406	2930	820	898	820	1397	1602	1875	3008	3281	664	547	1523	1328	862	862	862	862	862	862	862	862	862	862	862	862
		820	898	1641	1328	1250	1397	1602	1875	3008	3281	664	547	1523	1328	862	862	862	862	862	862	862	862	862	862	862	862
		625	1797	1797	1523	1328	2656	1641	1914	3789	2070	1680	1484	1211	977	188	922	293	460	460	460	460	460	460	460	460	460
		1094	2383	1523	1094	820	1055	1289	1602	3789	2070	1680	1484	1211	977	188	922	293	460	460	460	460	460	460	460	460	460
		1250	2422	1523	1016	664	1094	1094	1484	3906	2227	1328	1094	952	469	640	180	180	235	235	235	235	235	235	235	235	235
		1562	2656	1406	781	547	859	1055	1523	3789	2422	1367	1094	952	469	640	180	180	235	235	235	235	235	235	235	235	235
		1172	2227	1758	1211	1016	898	1289	1445	4023	2031	1680	1406	1158	456	568	238	472	270	464	253	253	253	253	253	253	253
		1094	1992	1914	1406	1211	937	1172	1445	4258	1758	1797	1562	1390	602	643	472	523	695	523	695	523	695	523	695	523	695
		1328	2187	1914	1367	1172	664	898	1172	4297	1836	1875	1602	1450	755	839	541	509	603	308	239	467	218	368	368	368	368
		1055	1758	2227	1719	1523	937	1172	1367	4414	1484	2148	1914	1580	753	750	675	738	905	738	905	738	905	738	905	738	905
		1797	2461	2070	1406	1211	156	430	742	4648	1875	2070	1707	1701	1117	1221	862	762	733	662	626	392	695	403	542	392	695
		1562	2070	2305	1680	1484	469	625	820	4805	1523	2305	2031	1845	1150	1210	943	895	936	710	567	403	542	290	290	290	290
		1719	2148	2383	1724	1770	386	586	703	4883	1484	2422	2148	1923	1256	1324	1037	972	985	1036	941	501	663	737	737	737	737
		1914	2461	2397	1678	1979	301	273	430	5041	1680	2500	2148	2099	1490	1574	1250	1159	1125	1036	941	737	933	398	392	392	392
		Tampico, Mexico.	Babos, Canal Zone	Victoria, B. C.	Saskatoon, Sask.	Regina, Sask.	Ottawa, Ont.	Quebec, Que.	Moncton, N. B.	Honolulu, Hawaii.	San Juan, Porto Rico	Portland, Ore.	Spokane, Wash.	Salt Lake City, Utah.	Oklahoma, Okla.	Ft. Worth, Texas.	Kansas City, Kans.	Des Moines, Iowa.	Minneapolis, Minn.	St. Louis, Mo.	Nashville, Tenn.	Cincinnati, Ohio.	Atlanta, Ga.	Buffalo, N. Y.	Washington, D. C.	Philadelphia, Pa.	Boston, Mass.
		MEXICO, ETC.	CANADA	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES

OFFICIAL SHORT WAVE LOG AND CALL MAGAZINE, WINTER, 1933-34

# Air-Line Distance and Direction Map

Measurements on this map to various parts of the world are correct from Schenectady, N. Y.; and approximately so from other towns in the United States, over long distances. The general direction of the straight line from Schenectady to any other point on the globe is that from which a short-wave signal is usually received; and the nature of the intervening land and water areas between transmitter and receiver may be seen.

By consulting the ordinary maps, to find the position of a town in a foreign country, and then marking it in the corresponding part of its continent on this twisted map, the distance and direction may be measured with a ruler. The scale is about 3,500 miles to the inch.



This map, calculated by General Electric engineers, is what is called an "Equidistant Zenithal Projection" and is in contrast to the more common "Mercator's Projection," on which the Time Zone Map on another page is laid out. The peculiar distortion of the map above is caused by the attempt to flatten out a globe to show both sides, without changing the distance of any point from the center. The rim represents a point in the Indian Ocean which is directly under the earth from Schenectady. We may imagine a rubber balloon, representing the earth, punctured at this point and drawn out until this opening is the rim of a circle.

It will be seen here that the shortest line from New York to Bandoeng, Java (for instance) runs almost directly through the North Pole. On the ordinary map a straight line does not show the true direction, but indicates a path several thousand miles longer. Radio waves, as a rule, are received along the most direct path; though powerful directional sets show an "echo" which comes from the opposite direction, around the world over a longer route.

# STANDARD TIME ZONES OF THE UNITED STATES

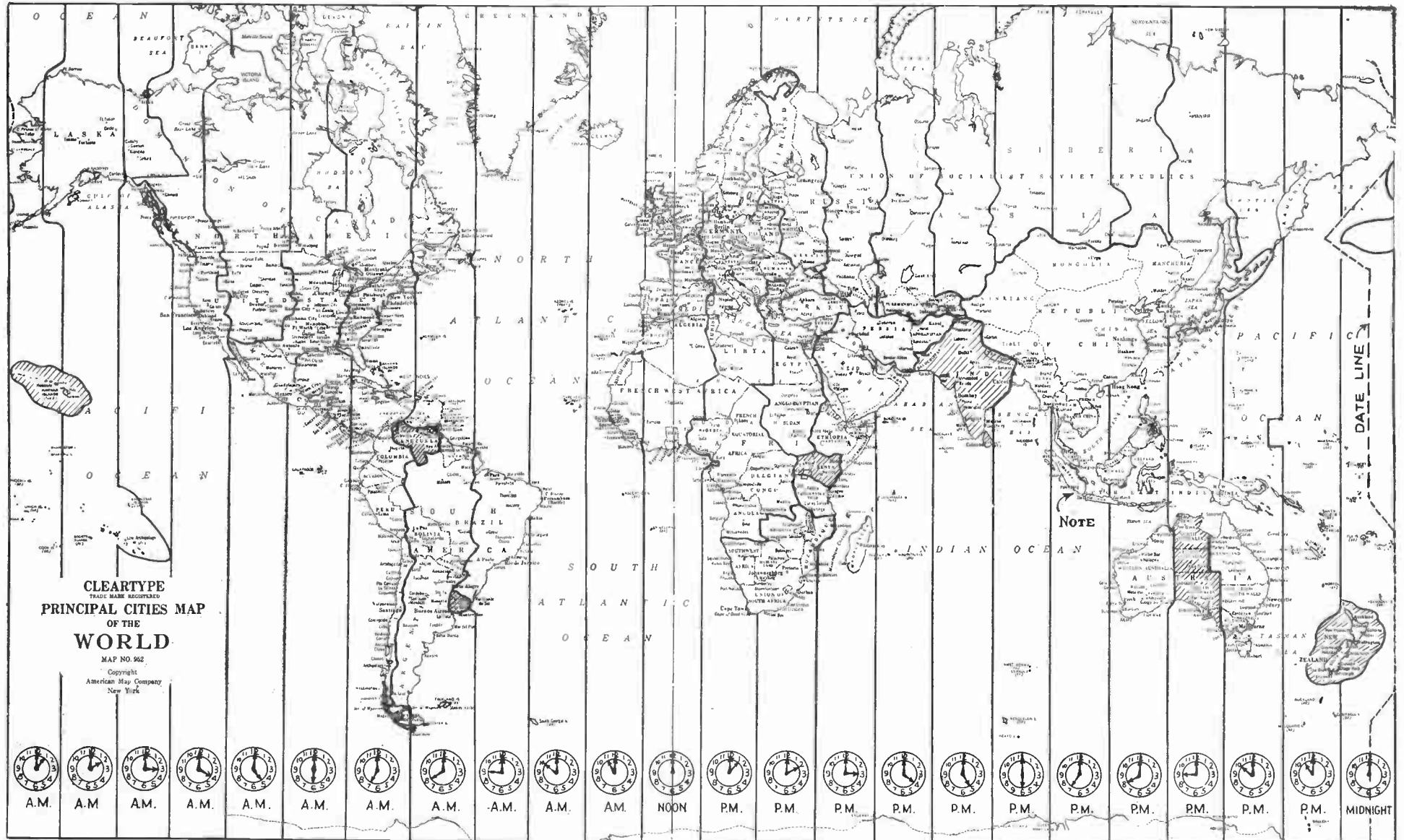
And adjacent parts of Canada and Mexico



# STANDARD TIME ZONES OF THE WORLD AND OUTLINE CHART OF THE WORLD'S COUNTRIES

NOTE: USE MAGNIFYING GLASS TO READ CITIES.

OFFICIAL SHORT WAVE LOG AND CALL MAGAZINE, WINTER, 1933-34



Note: Since Holland keeps Amsterdam time, which is 20 minutes faster than standard, the Dutch East Indies are 7 hours 20 minutes faster than Greenwich time. New Zealand, Central Australia, Kenya, Uruguay, Venezuela, and the Hawaiian Islands are on half-hour standards, intermediate between the zones whose boundaries they cross; and China, Persia, Arabia, Abyssinia, etc., have no standard time. India is on a half-hour schedule, in the west; and Calcutta is 7 minutes slower than standard Time, at any moment, is reckoned one hour later, or faster, for each zone we cross toward the east, or right side of the page; and one hour earlier, or slower, for each zone going west. The clocks show the time, at each place in the world, when the day is ending at the Date Line at the right of the page. Add the difference in time (as shown between the zone clocks) between your position and any station east of you, to your own time, to determine the time at that station; but subtract the difference in time from your own time, if the station is west of you; or consult the Time Conversion Table on another page.



# Kilocycle Meter Conversion Table

NEW-COMERS to the short wave field seem to have difficulty in handling meters and kilocycles. Therefore this chart will serve for ready reference and help the beginner to locate the desired stations on his receiver dials.

Thus, if the frequency in cycles is known it is a simple matter to determine the wavelength in meters by simple division. A station transmits on a frequency of 1,500,000 cycles. What is the wavelength of the transmission? Divide 1,500,000 cycles into 300,000,000 and the answer expressed in meters is 200. Instead

of trying to work out problems involving so many ciphers try using the terms Kilocycles and Megacycles. Thus.

1000 Cycles Equal 1 Kilocycle.

1,000,000 Cycles Equal 1 Megacycle.

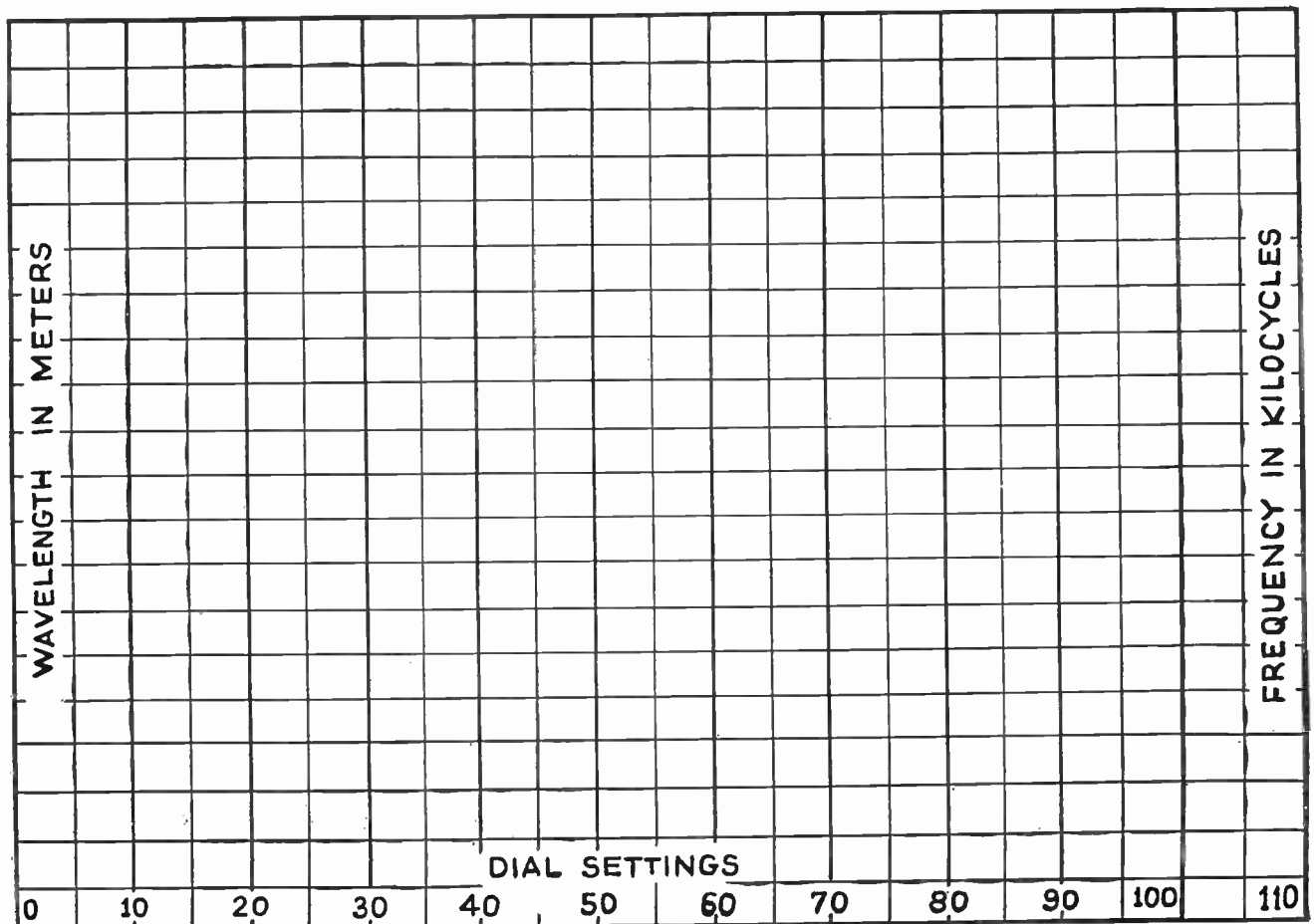
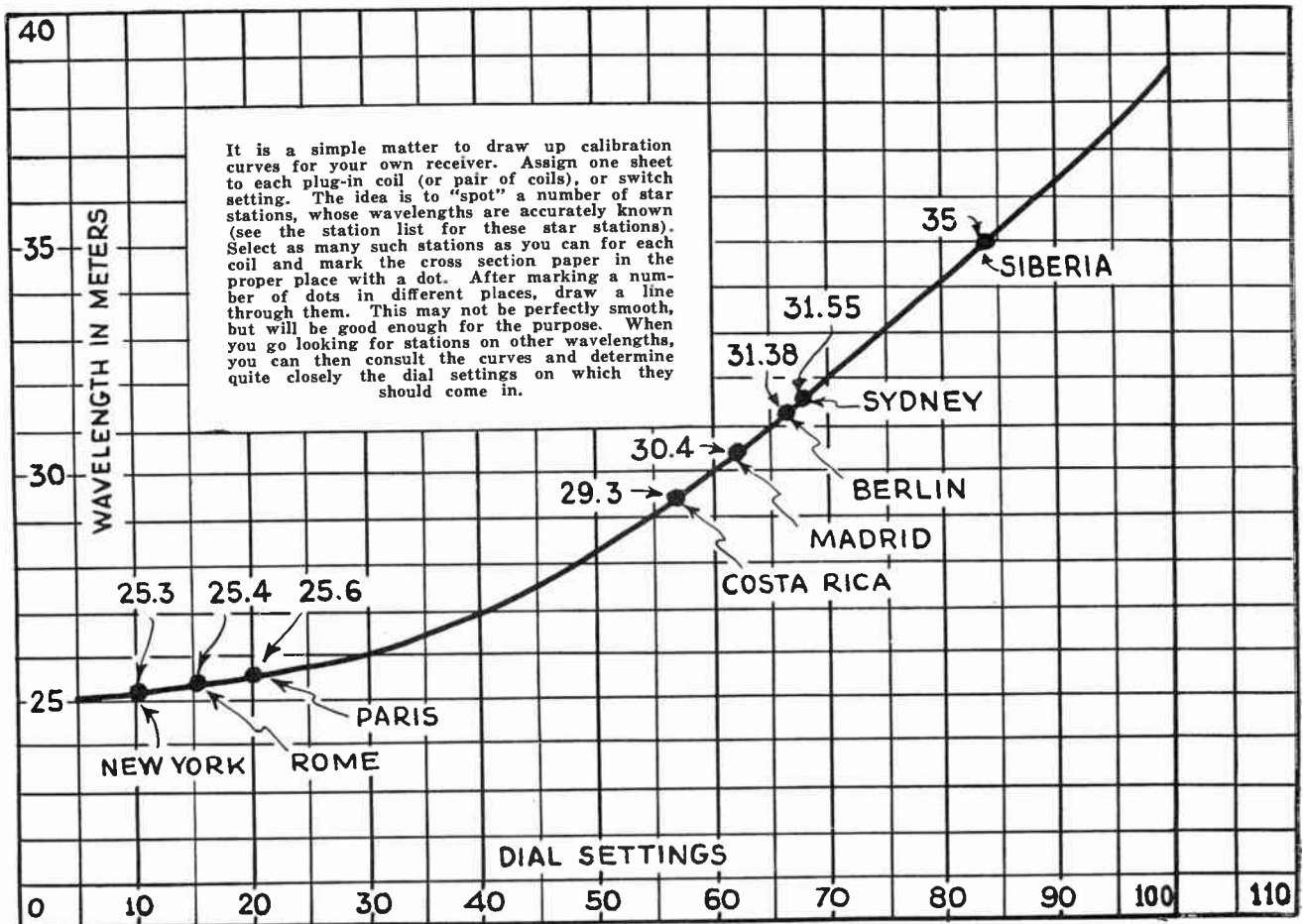
In the Conversion Table the various units are expressed in meters and kilocycles. If it is desired to convert kilocycles to channels or megacycles it is necessary to shift the decimal point. Thus, a frequency of 1,000,000 cycles can be expressed 1,000 kc. channel 101 megacycle or a wavelength of 300 meters.

kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc	kc or m	m or kc
10	29,982	1,010	296.9	2,010	149.2	3,010	99.61	4,010	74.77	5,010	59.84	6,010	49.89	7,010	42.77	8,010	37.43	9,010	33.28
20	14,991	1,020	293.0	2,020	148.4	3,020	99.28	4,020	74.58	5,020	59.73	6,020	49.80	7,020	42.71	8,020	37.38	9,020	33.24
30	9,994	1,030	291.1	2,030	147.7	3,030	98.95	4,030	74.40	5,030	59.61	6,030	49.72	7,030	42.65	8,030	37.34	9,030	33.20
40	7,496	1,040	288.3	2,040	147.0	3,040	98.62	4,040	74.21	5,040	59.49	6,040	49.64	7,040	42.59	8,040	37.29	9,040	33.17
50	5,996	1,050	285.3	2,050	146.3	3,050	98.30	4,050	74.03	5,050	59.37	6,050	49.56	7,050	42.53	8,050	37.24	9,050	33.13
60	4,997	1,060	282.8	2,060	145.5	3,060	97.98	4,060	73.85	5,060	59.25	6,060	49.48	7,060	42.47	8,060	37.20	9,060	33.09
70	4,283	1,070	280.2	2,070	144.8	3,070	97.66	4,070	73.67	5,070	59.13	6,070	49.39	7,070	42.41	8,070	37.15	9,070	33.06
80	3,748	1,080	277.6	2,080	144.1	3,080	97.34	4,080	73.49	5,080	59.02	6,080	49.31	7,080	42.35	8,080	37.11	9,080	33.02
90	3,331	1,090	275.1	2,090	143.5	3,090	97.03	4,090	73.31	5,090	58.90	6,090	49.23	7,090	42.29	8,090	37.06	9,090	32.98
100	2,998	1,100	272.6	2,100	142.8	3,100	96.72	4,100	73.13	5,100	58.79	6,100	49.15	7,100	42.23	8,100	37.01	9,100	32.95
110	2,726	1,110	270.1	2,110	142.1	3,110	96.41	4,110	72.95	5,110	58.67	6,110	49.07	7,110	42.17	8,110	36.97	9,110	32.91
120	2,499	1,120	267.7	2,120	141.4	3,120	96.10	4,120	72.77	5,120	58.56	6,120	48.99	7,120	42.11	8,120	36.92	9,120	32.88
130	2,306	1,130	265.5	2,130	140.8	3,130	95.79	4,130	72.60	5,130	58.44	6,130	48.91	7,130	42.05	8,130	36.88	9,130	32.84
140	2,142	1,140	263.0	2,140	140.1	3,140	95.48	4,140	72.42	5,140	58.33	6,140	48.83	7,140	41.99	8,140	36.83	9,140	32.80
150	1,999	1,150	260.7	2,150	139.5	3,150	95.18	4,150	72.25	5,150	58.22	6,150	48.75	7,150	41.93	8,150	36.79	9,150	32.77
160	1,874	1,160	258.5	2,160	138.8	3,160	94.88	4,160	72.07	5,160	58.10	6,160	48.67	7,160	41.87	8,160	36.74	9,160	32.73
170	1,764	1,170	256.3	2,170	138.1	3,170	94.58	4,170	71.90	5,170	57.99	6,170	48.59	7,170	41.82	8,170	36.70	9,170	32.70
180	1,666	1,180	254.1	2,180	137.5	3,180	94.28	4,180	71.71	5,180	57.88	6,180	48.51	7,180	41.76	8,180	36.65	9,180	32.66
190	1,578	1,190	252.3	2,190	136.9	3,190	93.99	4,190	71.56	5,190	57.77	6,190	48.44	7,190	41.70	8,190	36.61	9,190	32.62
200	1,499	1,200	249.9	2,200	136.3	3,200	93.69	4,200	71.39	5,200	57.66	6,200	48.36	7,200	41.64	8,200	36.56	9,200	32.59
210	1,428	1,210	247.8	2,210	135.7	3,210	93.40	4,210	71.22	5,210	57.55	6,210	48.28	7,210	41.58	8,210	36.52	9,210	32.55
220	1,363	1,220	245.8	2,220	135.1	3,220	93.11	4,220	71.05	5,220	57.44	6,220	48.20	7,220	41.53	8,220	36.47	9,220	32.52
230	1,304	1,230	243.8	2,230	134.4	3,230	92.82	4,230	70.88	5,230	57.33	6,230	48.13	7,230	41.47	8,230	36.43	9,230	32.48
240	1,249	1,240	241.8	2,240	133.8	3,240	92.54	4,240	70.71	5,240	57.22	6,240	48.05	7,240	41.41	8,240	36.39	9,240	32.45
250	1,199	1,250	239.9	2,250	133.3	3,250	92.25	4,250	70.55	5,250	57.11	6,250	47.97	7,250	41.35	8,250	36.34	9,250	32.41
260	1,153	1,260	238.0	2,260	132.7	3,260	91.97	4,260	70.38	5,260	57.00	6,260	47.89	7,260	41.30	8,260	36.30	9,260	32.38
270	1,110	1,270	236.1	2,270	132.1	3,270	91.69	4,270	70.22	5,270	56.89	6,270	47.82	7,270	41.24	8,270	36.25	9,270	32.34
280	1,071	1,280	234.2	2,280	131.5	3,280	91.41	4,280	70.05	5,280	56.78	6,280	47.74	7,280	41.18	8,280	36.21	9,280	32.31
290	1,034	1,290	232.4	2,290	130.9	3,290	91.13	4,290	69.89	5,290	56.68	6,290	47.67	7,290	41.13	8,290	36.17	9,290	32.27
300	999.4	1,300	230.6	2,300	130.4	3,300	90.86	4,300	69.73	5,300	56.57	6,300	47.59	7,300	41.07	8,300	36.12	9,300	32.24
310	967.2	1,310	228.9	2,310	129.8	3,310	90.58	4,310	69.56	5,310	56.46	6,310	47.52	7,310	41.02	8,310	36.08	9,310	32.20
320	936.9	1,320	227.1	2,320	129.2	3,320	90.31	4,320	69.40	5,320	56.36	6,320	47.44	7,320	40.96	8,320	36.04	9,320	32.17
330	908.6	1,330	225.4	2,330	128.7	3,330	90.04	4,330	69.24	5,330	56.25	6,330	47.36	7,330	40.90	8,330	35.99	9,330	32.14
340	881.8	1,340	223.7	2,340	128.1	3,340	89.77	4,340	69.08	5,340	56.15	6,340	47.29	7,340	40.85	8,340	35.95	9,340	32.10
350	856.6	1,350	222.1	2,350	127.6	3,350	89.50	4,350	68.92	5,350	56.04	6,350	47.22	7,350	40.79	8,350	35.91	9,350	32.07
360	832.8	1,360	220.4	2,360	127.0	3,360	89.23	4,360	68.77	5,360	55.94	6,360	47.14	7,360	40.74	8,360	35.86	9,360	32.03
370	810.3	1,370	218.9	2,370	126.5	3,370	88.97	4,370	68.61	5,370	55.83	6,370	47.07	7,370	40.68	8,370	35.82	9,370	32.00
380	789.0	1,380	217.3	2,380	126.0	3,380	88.70	4,380	68.45	5,380	55.73	6,380	46.99	7,380	40.63	8,380	35.78	9,380	31.96
390	768.8	1,390	215.7	2,390	125.4	3,390	88.44	4,390	68.30	5,390	55.63	6,390	46.92	7,390	40.57	8,390	35.74	9,390	31.93
400	749.6	1,400	214.2	2,400	124.9	3,400	88.18	4,400	68.14	5,400	55.52	6,400	46.85	7,400	40.52	8,400	35.69	9,400	31.90
410	731.3	1,410	212.6	2,410	124.4	3,410	87.92	4,410	67.99	5,410	55.42	6,410	46.77	7,410	40.46	8,410	35.65	9,410	31.86
420	713.9	1,420	211.1	2,420	123.9	3,420	87.67	4,420	67.83	5,420	55.32	6,420	46.70	7,420	40.41	8,420	35.61	9,420	31.83
430	697.3	1,430	209.7	2,430	123.4	3,430	87.41	4,430	67.68	5,430	55.22	6,430	46.63	7,430	40.35	8,430	35.57	9,430	31.79
440	681.4	1,440	208.2	2,440	122.9	3,440	87.16	4,440	67.53	5,440	55.11	6,440	46.56	7,440	40.30	8,440	35.52	9,440	31.76
450	666.3	1,450	206.8	2,450	122.4	3,450	86.90	4,450	67.38	5,450	55.01	6,450	46.48	7,450	40.24	8,450	35.48	9,450	31.73
460	651.8	1,460	205.4	2,460	121.9	3,460	86.65	4,460	67.22	5,460	54.91	6,460	46.41	7,460	40.19	8,460	35.44	9,460	31.69
470	637.9	1,470	204.0	2,470	121.4	3,470	86.40	4,470	67.07	5,470	54.81	6,470	46.34	7,470	40.14	8,470	35.40	9,470	31.66
480	624.6	1,480	202.6	2,480	120.9	3,480	86.16	4,480	66.92	5,480	54.71	6,480	46.27	7,480	40.08	8,480	35.36	9,480	31.63
490	611.9	1,490	201.2	2,490	120.4	3,490	85.91	4,490	66.78	5,490	54.61	6,490	46.20	7,490	40.03	8,490	35.31	9,490	31.59
500	599.6	1,500	199.9	2,500	119.9	3,500	85.66	4,500	66.63	5,500	54.51	6,500	46.13	7,500	39.98	8,500	35.27	9,500	31.56
510	587.9	1,510	198.6	2,510	119.5	3,510	85.42	4,510	66.48	5,510	54.41	6,510	46.06	7,510	39.92	8,510	35.23	9,510	31.53
520	576.9	1,520	197.2	2,520	119.0	3,520	85.18	4,520	66.33	5,520	54.32	6,520	45.98	7,520	39.87	8,520	35.19	9,520	31.49
530	565.9	1,530	196.0	2,530	118.5	3,530	84.94	4,530	66.19	5,530	54.22	6,530	45.91	7,530	39.82	8,530	35.15	9,530	31.46
540	555.2	1,540	194.7	2,540	118.0	3,540	84.70	4,540	66.04	5,540	54.12	6,540	45.84	7,540	39.76	8,540	35.11	9,540	31.43
550	545.1	1,550	193.4	2,550	117.6	3,550	84.46	4,550	65.89	5,550	54.02	6,550	45.77	7,550	39.71	8,550	35.07	9,550	31.39
560	535.4	1,560	192.2	2,560	117.1	3,560	84.22	4,560	65.75	5,560	53.92	6,560	45.70	7,560	39.66	8,560	35.03	9,560	31.36
570	526.0	1,570	191.0	2,570	116.7	3,570	83.98	4,570	65.61	5,570	53.83	6,570	45.63	7,570	39.61	8,570	34.98		



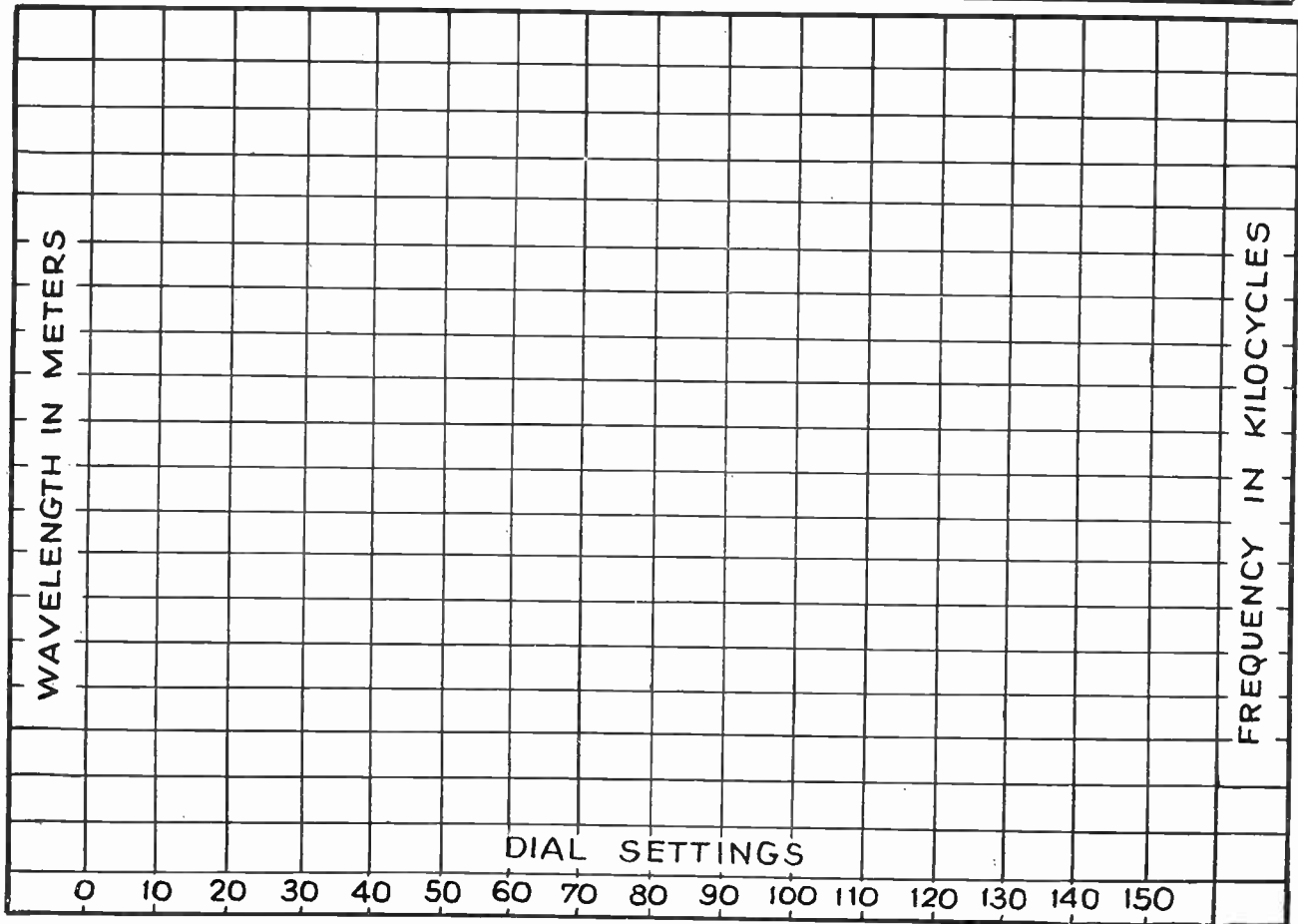
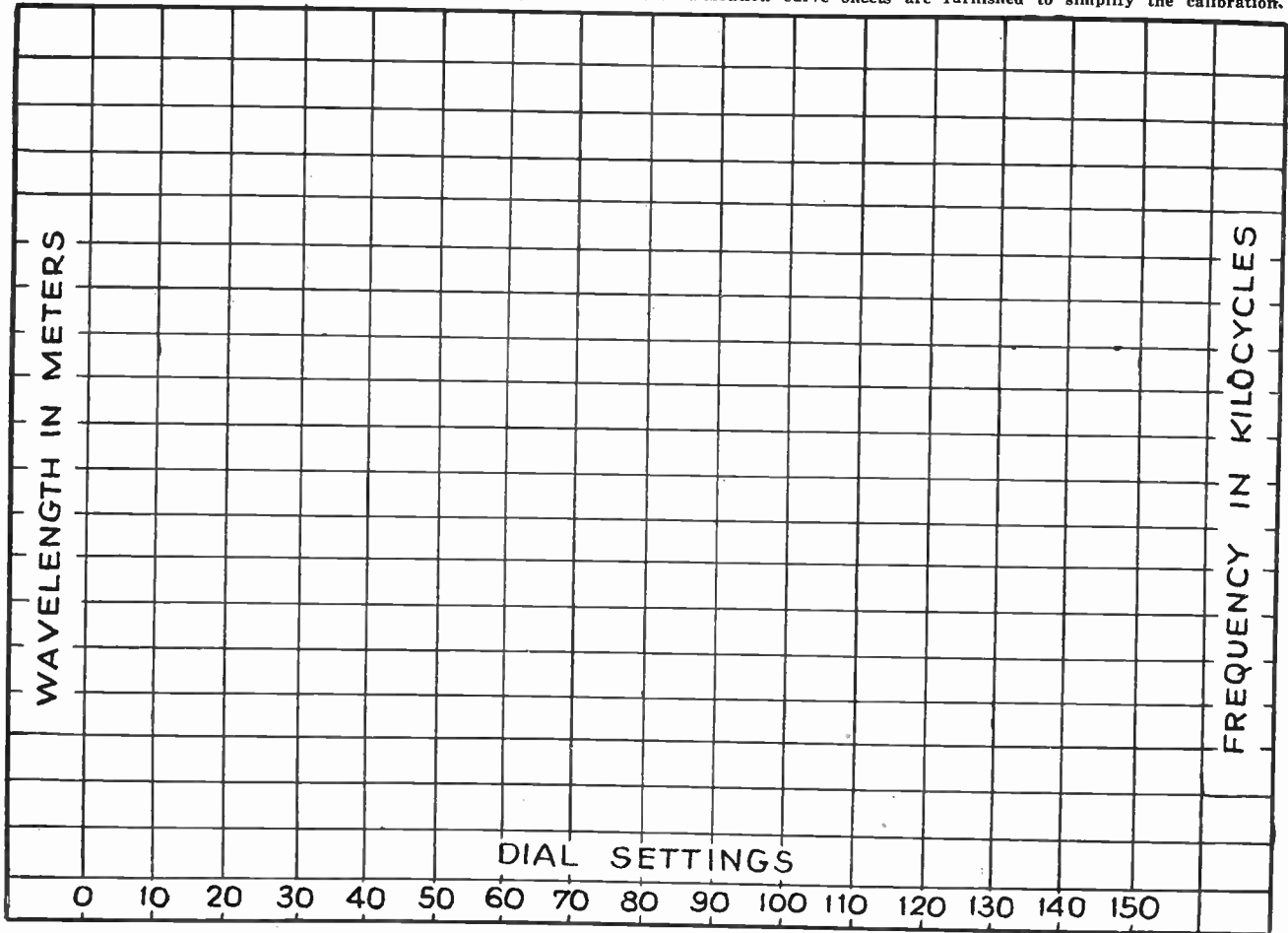


# Calibration Curve Sheets

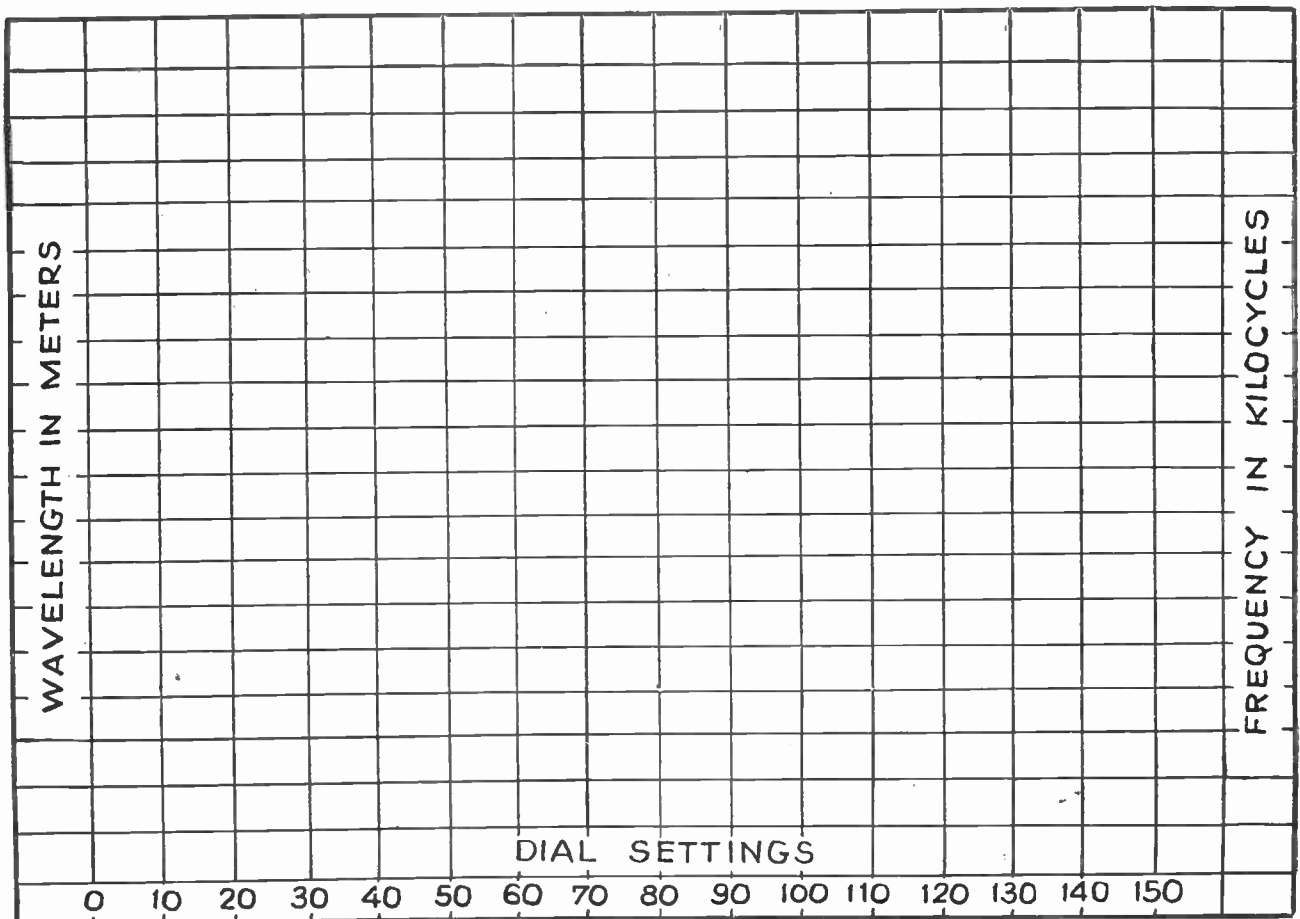
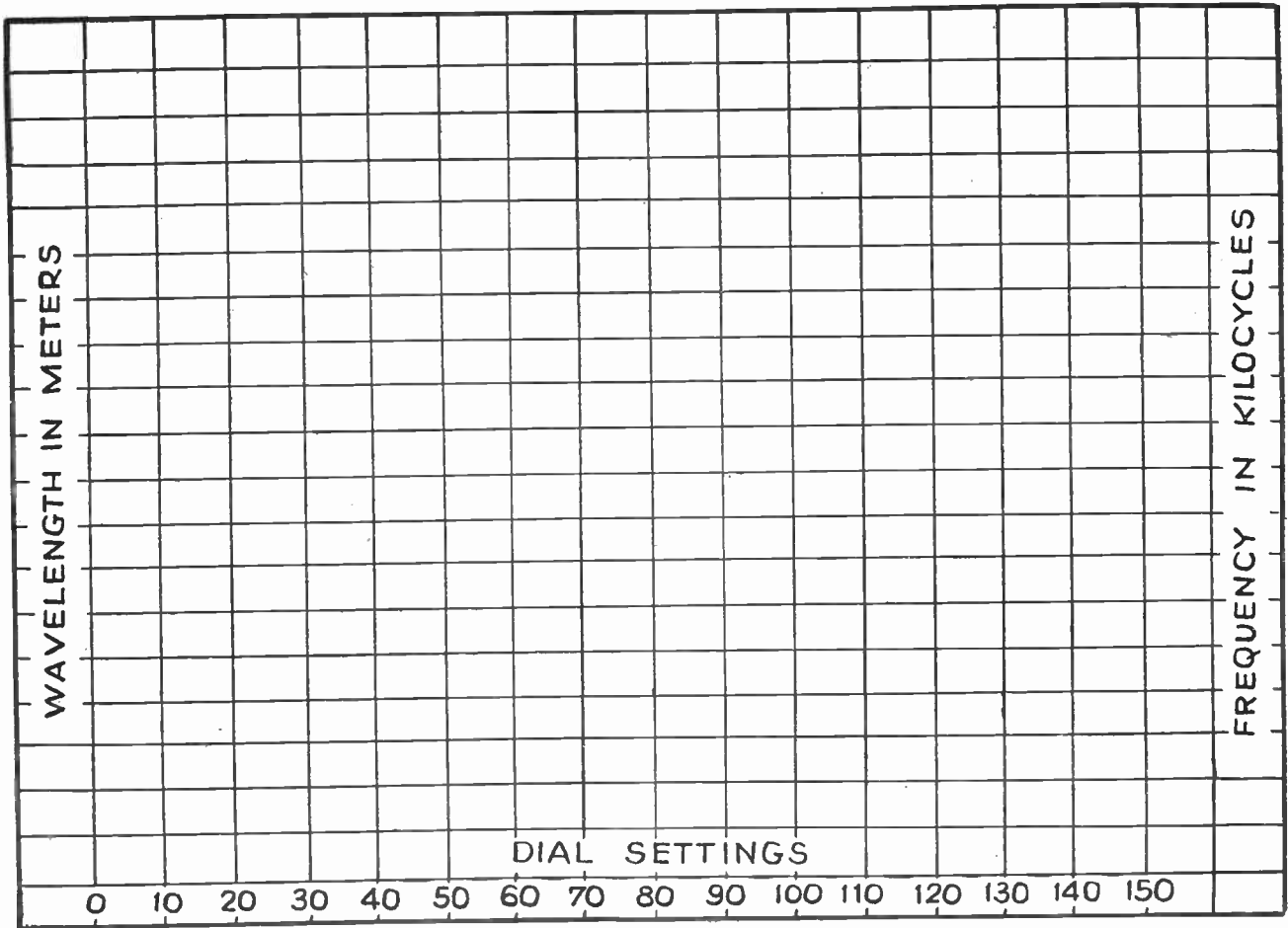


### 150 DEGREE CURVE SHEETS

Many receivers are equipt with 150 degree tuning dials, therefore these calibration curve sheets are furnished to simplify the calibration.



**150 DEGREE CURVE SHEETS**



# The SHORT WAVE SCOUTS

By Hugo Gernsback

**I**NASMUCH as there are now 8,500 short-wave stations in the world, naturally a mere few short-wave listeners cannot hope to listen to all of the transmissions; and for that reason a much broader movement is required.

An organization of SHORT WAVE SCOUTS would seem to fill this need; and SHORT WAVE CRAFT, as the largest short-wave magazine in the world today, and the OFFICIAL SHORT WAVE LOG & CALL MAGAZINE, would seem to be naturally the logical media to report SHORT WAVE SCOUTING regularly.

There is nothing more annoying to the short-wave listener to try and "log" a station which is either definitely off the air, or even temporarily discontinued, or which may have changed its call letters, etc. In the preparation of any magazine, sixty days (as a rule) elapses between the editorial closing date and the time when the magazine gets to its readers either by mail or on the newsstands.

What then, is required, is quick and accurate reporting. This, I believe, can be done better by the thousands of readers of SHORT WAVE CRAFT and the OFFICIAL SHORT WAVE LOG & CALL MAGAZINE who are sufficiently interested in the purely scientific pursuit of the art, to be instrumental in advancing radio. New stations spring up unannounced, transmitters are changed, power is changed, all without notification to anyone! Some of the stations in the smaller countries particularly violate these rules—if they are rules—constantly. They issue no piece of literature or, if they do, it is usually many months late. Naturally, here is where the SHORT WAVE SCOUT comes in because he gets his information instantaneously, and he can do a lot to help make the lists published in SHORT WAVE CRAFT, and in the OFFICIAL SHORT WAVE LOG AND CALL MAGAZINE, as accurate as it is humanly possible to make it.

Moreover, short wave enthusiasts are proud of their work. It is a sport or a game more interesting than golf or bridge. It certainly is far more thrilling, for when you come to think of it, while you are pursuing this endeavor, you are actually helping to develop the art. This factor of service always gives you an additional thrill.

And now, to make the endeavor of even more interest to SHORT WAVE SCOUTS, the publishers of SHORT WAVE CRAFT and the OFFICIAL SHORT WAVE LOG & CALL MAGAZINE, will donate to this cause every month, a very handsome trophy under the rules formulated below.

On this page is illustrated an actual photograph of the handsome trophy, which was designed by one of New York's leading silversmiths. It is made of metal throughout, except the base, which is made of handsome black Bakelite. The metal itself is quadruple silver-plated, in the usual manner of all trophies today. It is a most imposing piece of work, and stands from tip to base 22½". The diameter of the base is 7¾". The diameter of the globe is 5¼". The work throughout is first-class, and no money has been spared in its execution. It will enhance any home, and will be admired by everyone who sees it.

The trophy will be awarded every month, and the winner will be announced in the following issue of SHORT WAVE CRAFT. The winner's name will be hand engraved on the trophy. The lettering on the wide lower silver band reads as follows:

Presented to  
SHORT WAVE SCOUT

John Dough  
For his contributions toward the  
advancement of the art of Radio  
by



Magazine

## Rules of Contest

1.—A monthly trophy will be awarded to one SHORT WAVE SCOUT only.

2.—The purpose of this contest is to advance the art of radio by "logging" as many short-wave commercial phone stations, in a period not exceeding thirty days, as possible by any one contestant.

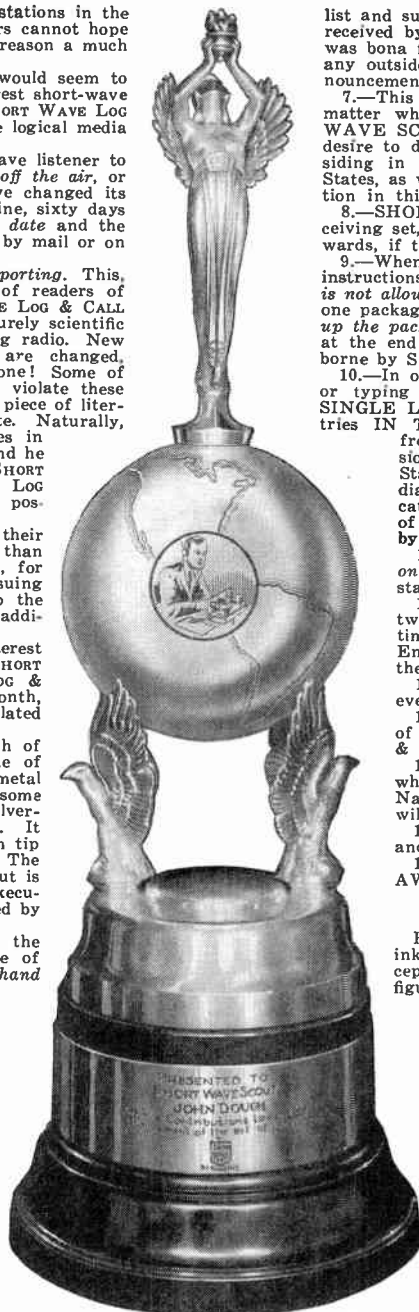
3.—The trophy will be awarded to that SHORT WAVE SCOUT who has logged the greatest number of short-wave stations during one month.

4.—In the event of a tie between two or more contestants, each logging the same number of stations, the judges will award a similar trophy to each contestant so tying.

5.—Verifications are necessary; these must be sent in with each entry. All cards or verification letters must be sent in at the same time, with a statement by the SHORT WAVE SCOUT, giving the list of stations in typed or written form, with the station calls, wave-lengths, and other valuable information. (See below.) The verification letters and cards will be returned to the SHORT WAVE SCOUT at the end of each monthly contest. (See Jan. 1933, editorial how to obtain verifications.)

6.—Inasmuch as not all stations send out verification letters or verification cards, each contestant is entitled to report not more than 50% of station calls for which no proper verification is submitted. For example, if you should mail a list of 100 stations, and submit 50 verification cards or letters with this list, the Judges would allow the 100 stations, providing such data is given for the 50 unverified stations as to enable an intelligent check to be made by the Judges. In the interest of all SHORT WAVE SCOUTS, however, contestants should try to send in as many verifications as possible. Each list submitted must be sworn to before a Notary Public, as follows:

"The undersigned, declares under oath that the stations listed in this



Here is the SHORT WAVE SCOUT Trophy. It stands 22½ inches high; the diameter of the globe being 5 inches. Engraved in the globe is a SHORT WAVE SCOUT with earphones sitting in front of his radio set. The western half of the hemisphere is shown. The lower part of the trophy is engraved with the winner's name.

list and submitted in the SHORT WAVE SCOUT Contest were received by me during the past thirty days, that the reception was bona fide and was obtained by me without assistance from any outsider, and that I personally listened to the station announcements as given in this list."

7.—This is an international contest in which any reader, no matter where located, can join. It is allowable for SHORT WAVE SCOUTS to list stations in their own countries, if they desire to do so. In other words, SHORT WAVE SCOUTS residing in the United States can log stations in the United States, as well as foreign stations. There will be no discrimination in this respect.

8.—SHORT WAVE SCOUTS are allowed the use of any receiving set, from a one-tube up to one of sixteen tubes, or upwards, if they so desire.

9.—When sending in entries, note the following few simple instructions: Type your list, or write in ink, *penciled matter is not allowed*. Send verification cards, letters and the list all in one package, either by mail or by express prepaid; *do not split up the package*. Verification cards and letters will be returned, at the end of the contest, to their owners; the expense to be borne by SHORT WAVE CRAFT magazine.

10.—In order to have uniformity of the entries, when writing or typing your list observe the following routine: USE A SINGLE LINE FOR EACH STATION; type or write the entries IN THE FOLLOWING ORDER: Station call letters; frequency station transmits at; schedule of transmissions, if known (all time should be reduced to Eastern Standard which is five hours behind Greenwich Meridian Time); name of station, city, country; identification signal if any. Sign your name at the bottom of the list and furthermore state the type of set used by you to receive these stations.

11.—Don't list amateur transmitters in this contest, only commercial phone stations no CW and no "code" stations.

12.—This contest will close every month for the next twelve months on the first day of the month by which time all entries must have been received in New York. Entries received after this date will be held over for the next month's contest.

13.—The contest will close in New York the first of every month.

14.—The judges of the contest will be the editors of SHORT WAVE CRAFT and the OFFICIAL SHORT WAVE LOG & CALL MAGAZINE and their findings will be final.

15.—Trophy awards will be made every month at which time the trophy will be sent to the winner. Names of the contesting SCOUTS not winning a trophy will be listed in Honorable Mention each month.

16.—From this contest are excluded all employees and their families of SHORT WAVE CRAFT magazine.

17.—Address all entries to SHORT WAVE SCOUT AWARD, 98 Park Place, New York City.

## How to Get Verification Cards

First of all, write the letter neatly, typewritten or ink, never in pencil! Give the exact local time of reception, as well as Greenwich meridian time, which is figured as follows:

Greenwich time is five hours ahead of Eastern Standard Time; six hours ahead of Central Standard Time; seven hours ahead of Mountain Time; eight hours ahead of Pacific Time, etc. In other words, when it is six o'clock Eastern Standard Time, it is 11 o'clock Greenwich Meridian Time. Always give the Greenwich time, because the broadcasters will know that this is the correct time.

Be sure to mention that part of the program which you listen to; if instrumental music, state so; if a talk, do likewise, etc.

Be sure to think the station manager for giving you the program, and how much pleasure you received by listening to his station.

Next, ask them to be kind enough to send you a verification card or letter, and don't be peremptory in your demand. Remember, that the station is *doing you a favor* because they have to answer thousands of such letters, and they are not obliged to do it in the first place.

State in the letter that you enclose an *International Postage Reply Coupon*. Never send cash or stamps. The foreign stations cannot use them. The International Postage Reply Coupon costs 9c. You must buy it at your local Post Office; no one else sells it. This coupon is better pinned, not pasted, to your letter.

Print your address at the bottom of the letter, and print the same address on the envelope.

Next—and most important, where most fans fall down is the matter of postage. Letters

to Europe, Australia, Asia, Africa and most of the foreign islands go at the rate of 5c, if the letter weighs less than an ounce. If it weighs above this, extra postage must be prepaid. I discourage the use of postal cards, because with the postal card you cannot send the International Money Coupon, and you will find that only a small percentage of stations will answer your requests, unless the International Postage Reply Coupon is used! The reason for this, of course, is that a number of stations do not wish to lay out their own postage to send you verifications, while if you send them the International Postage Coupon they feel morally bound to answer your letter for verification.

If you do not have the exact address, most of your letters will reach their destination by just addressing them as per example:

Radio Station XXXYZ, Bangkok, Siam. This, in most cases, is sufficient, as the local post office authorities usually know the station and deliver your letter.



INTERNATIONAL RADIOTELEGRAPHIC CONVENTION  
LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS

Abbreviations to be used in all services

Abbreviation	QUESTION	ANSWER OR NOTICE	Abbreviation	QUESTION	ANSWER OR NOTICE
QRA	What is the name of your station?	The name of my station is .....	QSO	Can you communicate with ..... directly (or through the intermediary of .....)?	I can communicate with ..... directly (or through the intermediary of .....).
QRB	At what approximate distance are you from my station?	The approximate distance between our stations is ..... nautical miles (or ..... kilometers).	QSP	Will you relay to ..... free of charge?	I will relay to ..... free of charge.
QRC	By what private company (or government administration) are the accounts for charges of your station liquidated?	The accounts for charges of my station are liquidated by the ..... private company (or by the government administration of .....).	QSQ	Must I send each word or group once only?	Send each word or group once only.
QRD	Where are you going?	I am going to .....	QSR	Has the distress call received from ..... been attended to?	The distress call received from ..... has been attended to by .....
QRE	What is the nationality of your station?	The nationality of my station is .....	QSU	Must I send on ..... meters (or ..... kilocycles) waves of type A1, A2, A3, or B?	Send on ..... meters (or on ..... kilocycles) waves of type A1, A2, A3, or B. I am listening for you.
QRF	Where do you come from?	I come from .....	QSV	Must I shift to the wave of ..... meters (or of ..... kilocycles), for the balance of our communications, and continue after having sent several V's?	Shift to wave of ..... meters (or of ..... kilocycles) for the balance of our communications and continue after having sent several V's.
QRG	Will you indicate to me my exact wave length in meters (or frequency in kilocycles)?	Your exact wave length is ..... meters (or ..... kilocycles).	QSW	Will you send on ..... meters (or on ..... kilocycles) waves of type A1, A2, A3, or B?	I will send on ..... meters (or on ..... kilocycles) waves of types A1, A2, A3, or B. Continue to listen.
QRH	What is your exact wave length in meters (frequency in kilocycles)?	My exact wave length is ..... meters (frequency ..... kilocycles).	QSX	Does my wave length (frequency) vary?	Your wave length (frequency) varies.
QRI	Is my tone bad?	Your tone is bad.	QSY	Must I send on the wave of ..... meters (or ..... kilocycles) without changing the type of wave?	Send on the wave of ..... meters (or ..... kilocycles) without changing the type of wave.
QRJ	Are you receiving me badly? Are my signals weak?	I can not receive you. Your signals are too weak.	QSZ	Must I send each word or group twice?	Send each word or group twice.
QRK	Are you receiving me well? Are my signals good?	I receive you well. Your signals are good.	QTA	Must I cancel telegram No. .... as if it had not been sent?	Cancel telegram No. .... as if it had not been sent.
QRL	Are you busy?	I am busy. Or, (I am busy with .....). Please do not interfere.	QTB	Do you agree with my word count?	I do not agree with your word count; I shall repeat the first letter of each word and the first figure of each number.
QRM	Are you being interfered with?	I am being interfered with.	QTC	How many telegrams have you to send?	I have ..... telegrams for you or for .....
QRN	Are you troubled by atmospheric?	I am troubled by atmospheric.	QTD	Is the word count which I am confirming to you accepted?	The word count which you confirm to me is accepted.
QRO	Must I increase power?	Increase power.	QTE	What is my true bearing? (or) What is my true bearing relative to .....	Your true bearing is ..... degrees (or) ..... degrees at ..... (o'clock).
QRP	Must I decrease power?	Decrease power.	QTF	Will you give me the position of my station based on the bearing taken by the radio-compass stations which you control?	The position of your station based on the bearings taken by the radio-compass stations which I control is ..... latitude ..... longitude.
QRQ	Must I send faster?	Send faster (..... words per minute).	QTH	Will you transmit your call signal for one minute on a wave length of ..... meters (or ..... kilocycles) in order that I may take your radio-compass bearing?	I am sending my call signal for one minute on the wave length of ..... meters (or ..... kilocycles) in order that you may take my radio-compass bearing.
QRS	Must I send more slowly?	Send more slowly (..... words per minute).	QTI	What is your position in latitude and longitude (or according to any other indication)?	My position is ..... latitude ..... longitude (or according to any other indication).
QRT	Must I stop sending?	Stop sending.	QTL	What is your true course?	My true course is ..... degrees.
QRU	Have you anything for me?	I have nothing for you.	QTM	What is your speed?	My speed is ..... knots, or ..... kilometers per hour.
QRV	Must I send a series of V's?	Send a series of V's.	QTK	What is the true bearing of ..... relative to you?	The true bearing of ..... relative to me is ..... degrees at ..... (o'clock).
QRW	Must I advise ..... that you are calling him?	Please advise ..... that I am calling him.	QTL	Send radio signals to enable me to determine my bearing with respect to the radiobeacon.	I am sending radio signals to permit you to determine your bearing with respect to the radiobeacon.
QRX	Must I wait? When will you call me again?	Wait until I have finished communicating with ..... I will call you immediately (or at ..... o'clock).	QTN	Send radio signals and submarine sound signals to enable me to determine my bearing and my distance.	I am sending radio signals and submarine sound signals to permit you to determine your bearing and your distance.
QRY	Which is my turn?	Your turn is No. .... (or according to any other indication).	QTO	Can you take the bearing of my station (or of ..... relative to you)?	I can not take the bearing of your station (or of ..... relative to your station).
QRZ	By whom am I being called?	You are being called by .....	QTP	Are you going to enter the dock (or the port)?	I am going to enter the dock (or the port).
QSA	What is the strength of my signals (1 to 5)?	The strength of my signals is ..... (1 to 5).	QTS	What is the exact time?	The exact time is ..... (o'clock).
QSB	Does the strength of my signals vary?	Your signals disappear entirely at intervals.	QTU	What is the true bearing of your station relative to me?	The true bearing of my station relative to you is ..... at ..... (o'clock).
QSC	Do my signals disappear entirely at intervals?	Your signals disappear entirely at intervals.			My station is open from ..... to .....
QSD	Is my keying bad?	Your keying is bad.			
QSE	Are my signals distinct?	Your signals are unreadable.			
QSF	Is my automatic transmission good?	Your automatic transmission fades out.			
QSG	Must I transmit the telegrams by a series of 5, 10 (or according to any other indication)?	Transmit the telegrams by a series of 5, 10 (or according to any other indication).			
QSH	Must I send one telegram at a time, repeating it twice?	Transmit one telegram at a time, repeating it twice.			
QSI	Must I send the telegrams in alternate order without repetition?	Send the telegrams in alternate order without repetition.			
QSJ	What is the charge to be collected per word for ..... including your internal telegraph charge?	The charge to be collected per word for ..... is ..... francs, including my internal telegraph charge.			
QSK	Must I suspend traffic? At what time will you call me again?	Suspend traffic. I will call you again at ..... (o'clock).			
QSL	Can you give me acknowledgment of receipt?	I give you acknowledgment of receipt.			
QSM	Have you received my acknowledgment of receipt?	I have not received your acknowledgment of receipt.			
QSN	Can you receive me now? Must I continue to listen?	I can not receive you now. Continue to listen.			

When an abbreviation is followed by a mark of interrogation, it refers to the question indicated for that abbreviation.

\* A1 = continuous waves, unmodulated (CW).  
A2 = continuous waves, modulated (ICW or ACCW).  
A3 = continuous waves, modulated by speech or music (phone).  
B = damped waves (spark).

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Above, we have the International Morse Code and Abbreviations, which the student must learn. The most important rule which can be laid down for the code student, is that he should learn to send slowly at first, with accurate spacing of the dots and dashes, and also, the correct length of the characters themselves. The great mistake that many code students make is to speed up their "sendings," before they have thoroughly learned how to transmit properly and accurately space the dots and dashes. To become a good code operator requires plenty of practice.

FROM (OE)	TO TRANSMIT	NOTE
INVITATION TO TRANSMIT (GO AHEAD)	.....	[TO BE USED FOR ALL GENERAL PUBLIC-SERVICE RADIO COMMUNICATION. (1) A DASH IS EQUAL TO THREE DOTS; (2) THE SPACE BETWEEN PARTS OF THE SAME LETTER IS EQUAL TO ONE DOT. (3) THE SPACE BETWEEN TWO LETTERS IS EQUAL TO THREE DOTS; (4) THE SPACE BETWEEN TWO WORDS IS EQUAL TO FIVE DOTS.]
WARNING-HIGH POWER	.....	
QUESTION (PLEASE REPEAT AFTER...)	.....	
INTERRUPTING LONG MESSAGES	.....	
WAIT	.....	
BREAK (BK) (DOUBLE DASH)	.....	
UNDERSTAND	.....	
ERROR	.....	
RECEIVED (O.K.)	.....	
POSITION REPORT (TO PRECEDE ALL POSITION MESSAGES)	.....	
END OF EACH MESSAGE (CROSS TRANSMISSION FINISHED)	.....	
(END OF WORK) CONCLUSION OF CORRESPONDENCE	.....	
PERIOD	.....	
SEMICOLON	.....	
COMMA	.....	
COLON	.....	
INTERROGATION	.....	
EXCLAMATION POINT	.....	
APOSTROPHE	.....	
HYPHEN	.....	
BAR INDICATING FRACTION	.....	
PARENTHESES	.....	
INVERTED COMMAS	.....	
UNDERLINE	.....	
DOUBLE DASH	.....	
DISTRESS CALL	.....	
ATTENTION CALL TO PRECEDE EVERY TRANSMISSION	.....	
GENERAL INQUIRY CALL	.....	

INTERNATIONAL MORSE CODE  
AND  
CONVENTIONAL SIGNALS

A	.....	R	.....
B	.....	S	.....
C	.....	T	.....
D	.....	U	.....
E	.....	V	.....
F	.....	W	.....
G	.....	X	.....
H	.....	Y	.....
I	.....	Z	.....
J	.....		
K	.....		
L	.....		
M	.....		
N	.....		
O	.....		
P	.....		
Q	.....		
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		6	.....
		7	.....
		8	.....

9	.....
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8	.....
9	.....
0	.....
1	.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....



## COMET "PRO"

### The Most Talked of Receiver in Radio-dom

FROM the Arctic wastes to torrid Africa—from New York to humidity-drenched Singapore, the Hammarlund COMET "PRO" holds unquestioned leadership among professional short-wave receivers.

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Volume  
Control  
May be  
Added to  
the Stand-  
ard Model  
"PRO"*

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