

Summer 1933 Issue

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OFFICIAL SHORTWAVE LOG AND CALL BOOK

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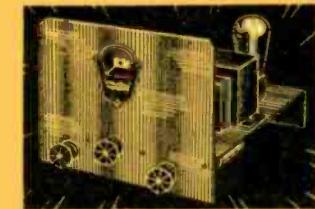
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For information regarding The Denton Trophy Contest, write to The Clifford E. Denton Trophy Committee, 23 Park Place, New York City.



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Set of batteries for above 1.29
Set of four coils, 15 to 200 meters 2.29
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Model 10A

Similar to above but especially sensitive. Uses 1-232 and 1-233 tubes.
Kit less coils and tubes \$5.95
Set of four coils, 15 to 200 meters 1.29
Set of batteries 2.16
Set of Raytheon 4 pillar tubes (1-232, 1-233) 2.12

THE VOYAGER KIT

Model 45A

Similar to above but A.C. operated. Uses 1-67 detector and 1-59 power pentode.
Kit less coils and tubes \$5.95
Set of four coils, 15 to 200 meters 1.29
A.C. Power supply Cat. No. 739 (less 280 tube) 4.95
Set of Raytheon 4 pillar tubes (1-67, 1-59, 1-280) 2.52

NOTE: Add \$3.00 for any of the above receivers if desired wired and tested.

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HUGO GERNNSBACK
Editor

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BY H. GERNNSBACK

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Introduction

P TO the present, there has been no complete short-wave log and call book, although for several years past there was a crying demand for an authoritative volume of this kind.

It should be realized that there are, now, over 8,500 short-wave stations in the world, not counting amateurs.

With new calls being added almost daily, it is manifestly impossible to list this great host of stations in any magazine; and that is the reason why the OFFICIAL SHORT WAVE LOG AND CALL BOOK has been created. The vagaries of short waves are such that it is quite impossible to foretell where and when you will be listening to a short-wave station thousands of miles away. Naturally, you are interested to know where the call originated; and, if you do not know the details—which is apt to happen most of the time—the present book supplies this want.

The book has been arranged in such a manner that all the calls heard can be logged in their proper places and, after a while, you will be the proud possessor of a short-wave log to which you can refer at all times for information.

Please note that this book is issued under the auspices of the SHORT WAVE LEAGUE, a membership association, the purpose of which is to further the art of short waves. While the publishers have tried to make the book as complete as possible, it is in the nature of the thing that there may be omissions here or there; and that errors have crept in. But the errors are not of our own making, since very frequently stations not only change calls but also change frequencies (wavelengths) as well. We would appreciate hearing from all listeners who have heard from stations which are either incorrectly listed now or omitted; in order that corrections may be made in subsequent issues of the SHORT WAVE LOG AND CALL BOOK.

This magazine will be issued as a quarterly. The present issue is the Summer number; the next, which will appear in September, will be the Fall issue.

We hope that listeners who make use of this new Call Book will let us have their comments on this new work. We naturally wish to receive all the criticisms we possibly can, to guide us in making the Call Book an institution in time to come.

If you wish to see other information published in the Call Book, please do not hesitate to make your wishes known to us.

Cordially,

THE PUBLISHERS.

International Call Letter Assignments

We are constantly receiving requests from listeners to identify short wave stations. As there are actually thousands of short-wave telegraph transmitters on the air, this is quite a job. We are publishing herewith a list showing the dis-

tribution of call signals among nations of the world. This was adopted by the International Radiotelegraph Convention held in Washington, D. C., during 1927 and has been ratified by most of the civilized countries of the world.

Call Signal	Country	Call Signal	Country	Call Signal	Country
CAA-CEZ	Chile.	OAA-OBZ	Peru.	VOA-VOZ	Newfoundland.
CFA-CKZ	Canada.	OCA-OCZ	Finland.	VPA-VSZ	British colonies and protectorates.
CLA-CMZ	Cuba.	OFA-OGZ	Czechoslovakia.	VTA-VWZ	British India.
CNA-CNZ	Morocco.	OHA-OHZ	Belgium and colonies.	W	United States of America.
CPA-CPZ	Bolivia	OKA-OKZ	Denmark.	XAA-XFZ	Mexico.
CQA-CQZ	Portuguese colonies.		Netherlands.	XGA-XUZ	China.
CRA-CRZ	Portugal.	ONA-OTZ	Curacao.	YAA-YAZ	Afghanistan.
CSA-CUZ	Roumania.	OUA-OZZ	Dutch East Indies.	YHA-YHZ	New Hebrides.
CVA-CVZ	Uruguay.	PAA-PIZ	Brazil.	VIA-YIZ	Iraq.
CWA-CXZ	Monaco.	PJA-PJZ	Surinam (Dutch Guiana).	VLA-YLZ	Latvia.
CZA-CZZ	Germany.	PKA-POZ	(Abbreviations.)	YMA-YMZ	Free City of Danzig.
D	Spain.	PPA-PYZ	Union of Soviet Socialist Republics (U. S. S. R.)	YNA-YNZ	Nicaragua.
EAA-EHZ	Irish Free State.	PZA-PZZ	Persia.	YSA-YSZ	Republic of El Salvador.
EIA-EIZ	Liberia.	Q	Republic of Panama.	YVA-YVZ	Venezuela.
ELA-ELZ	Estonia.	RAA-RQZ	Lithuania.	ZAA-ZAZ	Albania.
ESA-ESZ	Ethiopia.	RVA-RVZ	Sweden.	ZBA-ZHZ	British colonies and protectorates.
ETA-ETZ	France and colonies and protectorates.	RXA-RXZ	Poland.	ZKA-AMZ	New Zealand.
F	Great Britain.	RYA-RYZ	Egypt.	ZPA-ZPZ	Paraguay.
G	Hungary.	SAA-SMZ	Greece.	ZSA-ZUZ	Union of South Africa.
HAA-HAZ	Switzerland.	SPA-SRZ	Turkey.	Provisionally.	
HBA-HBZ	Ecuador.	STA-STZ	Iceland.	The call signals assigned to the United States are all 3, 4, and 5 letter combinations, beginning with the letters K, N, and W. Call signals of three letters allocated to the United States are reserved for stations open to International public and limited commercial service. All 5-letter combinations are allocated for assignment to aircraft stations.	
HCA-HCZ	Haiti.	SUA-SUZ	Guatemala.	During the World War, the groups of three letters beginning with K, N, and W were exhausted, and it was necessary to assign groups of four letters beginning with K, N, and W.	
HHA-HHZ	Dominican Republic.	SVA-SZZ	Costa Rica.		
HIA-HIZ	Colombia.	TAA-TUZ	Territory of the Saar.		
HJA-HKZ	Honduras.	TFA-TFZ	Hedjaz.		
HRA-HRZ	Siam.	TGA-TGZ	Dutch East Indies.		
HSA-HSZ	Vatican City.	TIA-TIZ	Luxemburg.		
HVA-HVZ	Italy and colonies.	TSA-TSZ	Kingdom of Serbs, Croats and Slovenes (Yugoslavia).		
I	Japan.	UHA-UHZ	Austria.		
J	United States of America.	UIA-UKZ	Canada.		
K	Norway.	ULA-ULZ	Australia.		
LAA-LNZ	Argentina.	UNA-UNZ			
LOA-LVZ	Bulgaria.	UOA-UOZ			
LZA-LZZ	Great Britain.	UWA-UZZ			
M	United States of America.	VAA-VGZ			
N		VHA-VMZ			

Around-the-Clock Listening Guide

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 partic-

ularly 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.

A Word About Short-Wave 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 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.

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, 26.55, 17.70	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	KFHW	W. W. Horne, Poinsettia...	37
KAL	Legaspi, P. I.	64.31, 50.34	KDNY	Favorite...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57	KFJD	M. & R. Lumber Co., Wan-	129.3
KAM	Pasay, P. I.	53.39, 46.5, 26.69	KDNY	Admiral Line, Pres. Jefferson	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFKW	Inland Waterways, Spray III...	109.5
KAQ	Manila R. R., Manila, P. I.	50.59	KDOT	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	KFL	Light Co., Underwood, Wash...	94.9, 94.8, 94.6, 94.4, 94.2, 92.65, 92.5
KAS	Surigao, P. I.	50.59	KDOZ	Dollar SS., Pres. Jackson...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFLF	Rippers...	54.3, 54, 36.19
KAW	Govt., Aparril, P. I.	62.96, 58.88, 45.45	KDPA	Cairo...	98.15, 71.94, 48.30, 48.23	KFLT	Iowa...	96.15, 71.94, 48.30, 48.23
KAX	R. C. A., Manila, P. I.	15.95, 15.01	KDQW	St. Louis...	98.15, 71.94, 48.30, 48.23	KFMC	Illinois...	96.15, 71.94, 48.30, 48.23
KAY	R. C. A., Manila, P. I.	20.03	KDQX	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	KFMD	Gulfport...	96.15, 71.94, 48.30, 48.23
KAZ	R. C. A., Manila, P. I.	30.09, 30.03	KDRL	E. T. Bedford...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFME	Birmingham...	96.15, 71.94, 48.30, 48.23
KBI	R. C. A., Manila, P. I.	14.19	KDRW	Dollar SS., Pres. Taft...	35.50, 26.43, 18.18	KFMJ	Mobile...	96.15, 71.09, 48.30, 48.23
KBJ	R. C. A., Manila, P. I.	22.66	KDSV	Amer. Mail, Pres. McKinley	54.3, 13.357	KFO	Amer. Radio, Inc., Oakland, Calif...	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 72.74, 53.85, 53
KBK	R. C. A., Manila, P. I.	44.84, 44.91	KDTC	Dollar SS., Pres. Wilson	35.50, 26.43, 18.18	KFPA	Boston Fire Dept., F. A. Ring	187.9
KBO	Govt., Manila, P. I.	58.31, 19.987	KDTF	Dollar SS., Pres. Garfield	35.50, 26.43, 18.18	KFPB	Matthew J. Boyle...	192.65
KBQ	Manila R. R., Naga, P. I.	50.59	KDTR	Betty B...	54.3, 54, 36.01	KFPC	Boston Fire Dept., A. J. McDonald...	187.9
KBT	Butuan, P. I.	62.83	KDRW	Dollar SS., Pres. Grant...	54.2, 13.375	KFPD	Boston Fire Dept., J. P. Doud...	187.9
KCAA	D. of C., Tulsa, Okla	89.8, 89, 51.50, 50.34	KDSV	Dollar SS., Pres. Lincoln	35.50, 26.43, 18.18	KFPI	Capt. J. W. McKee...	87.7, 46.95
KCAC	D. of C., Butte, Mont	89.8, 88.8, 50.59, 50.51	KDSC	Ger. Exp. Co., 3rd Rdo. Zone No. 40...	54.3, 13.357	KFQ	Globe Radio, Guam...	40.29, 20.15, 13.239
KCAD	D. of C., Idaho Falls, Idaho	89.8, 89.11, 50.51, 50.36	KDSL	American Legion	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFR	Light Dept., Seattle, Wash...	94.9, 94.8, 94.6, 94.4, 94.2, 92.65, 92.5
KCAE	D. of C., Winslow, Ariz	89.8, 88.3, 50.51, 50.34	KDTF	Munson, Southern Cross...	96.15, 71.93, 48.30, 48.23	KFS	M. R. T. Co., Palo Alto, Calif...	96.81, 96.15, 54.35, 53.96, 38.23, 27.17, 24.15, 23.9, 18.16, 17.857, 13.73, 13.587
KCAF	D. of C., Albuquerque, N. M.	89.8, 88.35, 50.51, 50.54	KDTG	Pres. Grant	54.2, 13.375	KFT	Pacific Com. Co., Everett, Wash...	96.81, 96.15, 54.35, 38.23, 27.17, 26.51, 22.66
KCAH	D. of C., Kingman, Ariz	89.8, 88.8, 50.51, 50.31	KDTK	Dollar SS., Pres. Roosevelt	35.50, 26.43, 18.18	KFSX	Warrior...	38.19, 35.50, 27.15, 27, 26.51, 22.66
KCAI	D. of C., Waynoka, Okla	89.8, 88.3, 50.51, 50.34	KDTW	Fortuna...	54.3, 54, 53.42, 45.52, 45.42, 36.19, 35.5, 27.15, 27, 22.66, 18.094	KFTP	Catalina...	96.81, 96.15, 54.35, 38.23, 27.17, 26.51, 22.66
KCAJ	D. of C., Little Rock, Ark	89.8, 89, 50.51, 50.34	KDTY	Vicksburg...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFUH	Alameda, Calif...	54.3, 54, 36.18
KCAK	D. of C., Shreveport, La	89.8, 88.63, 50.58, 50.54	KDWL	U. S. Steel, Steel Navigator	176.06	KFVJ	Kaimilou...	146.3
KCAP	D. of C., Big Spring, Tex	89.8, 87.98, 50.51, 50.37	KDWL	Invader...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFWJ	Los Angeles, Calif...	87.3, 72.3, 47.81, 23.4
KCAO	D. of C., El Paso, Tex	89.8, 87.98, 50.51, 50.37	KDWL	Pres. Roosevelt	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFX	Idalia...	110
KCQ	D. of C., St. Louis, Mo	89.8, 88.36, 50.51, 50.34	KDWL	Fortuna...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFY	Shadow K...	54.3, 54, 36.5
KCR	D. of C., Boise, Idaho	100.84, 89, 84.4, 50.51	KDWL	Ger. Exp. Co., 3rd Rdo. Zone No. 39...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFYX	Humble Oil, Tex. & La., No. 15...	176.06
KCS	D. of C., Pasco, Wash	89.8, 88.11, 50.51, 50.36	KDWL	City of Hamburg	71.83, 53.72, 50.08	KFYX	Seaborn...	54.3, 36.19, 36.01, 27.15, 26.71, 22.66, 18.09, 13.57
KCT	D. of C., Los Angeles, Calif	89.8, 89, 50.58, 50.51	KDWL	Michigan	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Pacific Com. Co., Everett, Wash...	96.81, 96.15, 54.35, 38.23, 27.17, 26.51, 22.66
KCU	D. of C., Fresno, Calif	89.8, 89, 50.58, 50.51	KDWL	Borger, Tex...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Warrior...	38.19, 35.50, 27.15, 27, 26.51, 22.66
KCV	D. of C., Oakland, Calif	89.8, 89, 50.58, 50.51	KDWL	Alameda, Calif...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Pacific Com. Co., Everett, Wash...	96.81, 96.15, 54.35, 38.23, 27.17, 26.51, 22.66
KCX	D. of C., Medford, Ore	89.8, 89, 50.58, 50.51	KDWL	Los Angeles, Calif...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Warrior...	38.19, 35.50, 27.15, 27, 26.51, 22.66
KCY	D. of C., Portland, Ore	89.8, 89, 50.58, 50.51	KDWL	Idalia...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Catalina...	54.3, 54, 36.18
KCZ	D. of C., Seattle, Wash	89.8, 89, 50.58, 50.51	KDWL	Gallavant...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Alameda, Calif...	146.3
KDA	D. of C., Maywood, Ill	89.8, 88.8, 50.51, 50.42	KDWL	Shadow K...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Idalia...	87.3, 72.3, 47.81, 23.4
KDAF	Coppenarie		KDWL	Humble Oil, Tex. & La., No. 15...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	No. 16...	110
KDAH	United Fruit Co., Heredia	87.51, 54.3, 35.34, 26.71	KDWL	Seaborn...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Alameda, Calif...	129.3
KDAM	West of Noteis		KDWL	Robador...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Mizpah...	36.19, 35.50, 27.15, 27, 26.51, 22.66
KDAQ	Sixatla		KDWL	Mizpah...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Humble Oil, Tex. & La., No. 16...	36.19, 35.50, 27.15, 27, 26.51, 22.66
KDAE	Pres. Monroe		KDWL	Aras...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Aras...	36.19, 35.5
KDC	Globe Wireless, Guam		KDWL	J. H. Oberfelder, Marj. III...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	J. H. Oberfelder, Marj. III...	36.19, 35.5
KDCC	Talamarcia		KDWL	Haligomian...	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Ivaner...	109.56
KDCA	Independence Hall		KDWL	Trans. Co., John N. Stewart	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Trans. Co., John N. Stewart	109.5
KDCK	United Fruit, La Perla		KDWL	KGBJ	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Enchantress...	109.5
KDCM	Dollar SS., Pres. Cleveland	54.3, 45.2k, 36.01, 27.15, 26.71, 24.01, 18.116, 17.921, 13.652, 13.587	KDWL	KGCW	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Fan Kwai...	109.5
KDCR	Guirigua		KDWL	KGD	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	D. of C., Salt Lake City, Utah...	89.3, 89, 50.51, 50.48
KDG	Press Wireless, Honolulu, T. H.	40.87, 40.79, 40.71, 38.36, 38.29, 37.72, 19.21, 15.51	KDWL	KGDF	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Ervin V...	110
KDGN	Donna Lane	35.39	KDWL	KGDQ	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Petraluma...	54.3, 36.19, 27.15, 22.66, 18.09, 17.79
KDH	Ger. Exp. Co., 3rd Rdo. Zone, No. 41	176.06	KDWL	KGDU	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Four Winds...	54.3, 36.19, 27.15, 22.66, 18.09, 17.79
KDHF	Dollar SS., Pres. Van Buren	35.50, 26.43, 18.18	KDWL	KGE	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Aero Radio, Inc., Medford, Ore...	84.9, 94.76, 94.57, 94.39, 53.86, 53
KDHL	Argosy	36.19, 36.01, 35.5, 27.15, 26.71, 22.66, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KDWL	KGEB	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Trans. Co., Milton Patrick	109.1
KDJY	Natchez	96.15, 71.09, 48.30, 48.23	KDWL	KGEC	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Trans. Co., D. M. Renton	109.5
KDKL	Camden		KDWL	KGEG	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Northern Light...	54.3, 54, 36.01, 22.66, 18.07
KDLB	Dollar SS., Pres. Hayes	35.50, 26.43, 18.18	KDWL	KGFD	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Globe Wireless, Musselech, Calif...	84.9, 94.76, 94.57, 94.39, 53.86, 53
KDLP	Aldon		KDWL	KGFB	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Trans. Co., Nakan, No. 7	109.5
KDM	S. C. T. Dodd		KDWL	KGFC	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Yoreda...	109.5
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	KDWL	KGFD	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Globe Wireless, Musselech, Calif...	40.38
KDMR	U. S. Miller		KDWL	KGFB	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFSX	Trans. Co., Nakan, No. 7	129.3
KDMW	Dollar SS., Pres. Hoover		KDWL	KGFC	54.3, 54, 45.52, 36.01, 27.15, 26.71, 18.09, 18.007, 13.57, 35.50, 26.43, 18.18	KFT	Yoreda...	109.5
KDMX	Dollar SS., Pres. Coolidge		KDWL	KGFD				

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KGG	Globe Wireless, Musselrich, Calif.	40.29 120.8, 88.56, 24.76	KGQ	Dollar Co., San Francisco, Calif.	40.29, 31.88, 27.45, 20.16, 15.94, 13.21	KGUB	Aero Radio, Inc., Houston, Tex.	120.97, 127.98, 72.46, 47.92, 47.8
KGGL	Lolanthe	96.61	KGQE	Einar Beyer	123.55	KGUD	Aero Radio, Inc., San Antonio, Tex.	120.97, 127.08, 72.46, 47.92, 47.89
KGH	M. R. T. Co., Hillsboro, Cal.	48.31, 37.82, 27.17, 26.95, 18.116, 13.777, 13.587	KGQF	Inland W. W., James W. Good	87.7, 40.05	KGUE	Aero Radio, Inc., Brownsville, Tex.	120.97, 47.8
KGJ	Globe Wireless, Calif.	31.88	KGQH	Chicken of the Sea	54.3, 54, 38.19, 35.5, 27.15, 29.71, 22.66	KGUF	Aero Radio, Inc., Dallas, Tex.	120.53, 127.33, 93.08, 92.6, 82.52, 92.9, 87.02, 86.77, 86.52, 86.08, 72.9, 53.55, 53.45, 63.29, 45.87, 45.8, 45.73, 37.43
KGJB	Market Service, Indio	92.3, 70.67, 55.92, 34.05, 29.97	KGQK	Inland W. W., Patrick J. Hurley	87.7, 46.04 54.3, 38.19, 35.5	KGUG	Aero Radio, Inc., Big Springs, Tex.	120.53, 127.33, 92.8, 92.6, 92.09, 87.02, 53.29, 45.8, 37.43
KGJG	State Dept., Modesto, Calif.	82.3, 70.67, 55.92, 34.05, 29.97	KGQM	Freetas, Navigator	38.19, 17.784	KGUH	Aero Radio, Inc., Waco, Tex.	120.97, 127.98, 72.46, 47.92, 47.89
KGJI	Market Serv., Fresno, Calif.	92.3, 70.67, 55.92, 34.05, 29.97	KGQS	Vileehl	187.9	KGUI	Aero Radio, Inc., Fort Worth, Tex.	94.9, 94.75, 94.6, 94.39, 53.88, 53
KGJK	A. H. Bull, SS, Jeanette	120.3	KGQT	Wm. J. Gaynor, City of N. Y. Silvera	54.3, 54, 27.15	KGUJ	Aero Radio, Inc., Burbank, Calif.	120.97, 127.98, 72.46, 47.92, 47.89
KGJJ	Pilot Assn., San Francisco, Calif.	122.6	KGQV	Tipperman	94.8, 94.75, 94.6,	KGUK	Aero Radio, Inc., Shreveport, La.	94.9, 94.75, 94.57, 94.39, 53.88, 53
KGJL	3rd Radio Zone, No. 47	170.06	KGR	Globe Wireless, Edmonds, Wash.	40.38, 40.29, 31.88, 27.45, 20.19, 20.15, 15.94, 13.29	KGUL	Aero Radio, Inc., Abilene, Tex.	86.10, 53.29
KGJM	3rd Radio Zone, No. 46	170.06	KGRB	Invincible	117.2	KGUM	Aero Radio, Inc., Frijoles, Tex.	120.97, 127.97, 86.10, 72.46, 53.29, 47.92, 47.80
KGJN	Ger. Exp. Co., 3rd Radio Zone, No. 45	170.06	KGRD	Inland W. W., Tennessee	96.22, 54.3, 54, 38.01	KGUN	Aero Radio, Inc., Douglas, Ariz.	120.97, 127.98, 86.10, 72.46, 53.57, 53.29, 47.92, 47.80
KGJO	Ger. Exp. Co., 3rd Radio Zone, No. 44	170.06	KGRJ	Indiana	96.21, 54.3, 54, 38.01	KGVO	Aero Radio, Inc., Tucson, Ariz.	86.10, 53.29
KGJP	Ger. Exp. Co., 3rd Radio Zone, No. 43	170.06	KGRK	Louisiana	96.21, 54.3, 54, 38.01	KGUP	Aero Radio, Inc., Phoenix, Ariz.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGJQ	Ger. Exp. Co., 3rd Radio Zone, No. 42	170.06	KGRM	St. Veronica	54.3, 54, 38.01	KGVR	Aero Radio, Inc., Burbank, Calif.	120.53, 127.33, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 53.55, 53.45, 53.29, 45.87, 45.8, 45.73, 37.43
KGJW	P. A. A., Brownsville, Tex.	72.74, 48.91, 112.7	KGRP	Santramaro	54.3, 54, 38.19	KGUV	Aero Radio, Inc., Indio, Calif.	120.97, 127.98, 86.10, 72.46, 53.57, 53.29, 47.92, 47.80
KGJX	Police, Pasadena, Calif.	175.23	KGRT	Parthenie S. S.	54.3 to 27.61	KGVT	Aero Radio, Inc., Ponca City, Okla.	94.9, 94.75, 94.57, 94.39, 53.88, 53
KGK	Globe Wireless, Musselrich, Calif.	27.45	KGRW	Pilot Ship, Adventuress, San Fran.	117.2	KGVS	Aero Radio, Inc., Tucson, Ariz.	86.10, 53.29
KGKD	Air Lines, Santa Maria, Cal.	185.84, 127.98, 62.89	KGRX	Defender	54.3, 38.19, 35.50	KGUT	Aero Radio, Inc., Blythe, Calif.	120.57, 127.08, 72.49, 47.92, 47.81
KGKN	Forestry Div., Calif.	62.78, 34.97	KGS	Dollar Co., Honolulu, T. H.	40.38, 40.39, 31.88, 27.45, 20.19, 20.15, 15.94, 13.25	KGUV	Aero Radio, Inc., Robertson, Mo.	110.20 to 24.03
KGKP	Forestry Div., Wash.	62.76, 34.97	KGSS	Aero Radio, Inc., Oakland, Calif.	97.7, 86.7, 47.24, 37.43, 24.83	KGVO	Aero Radio, Inc., Little Rock, Ark.	120.97, 47.78
KGKR	3rd Zone, No. 48	170.06	KGSC	Aero Radio, Inc., Oklahoma City, Okla.	97.7, 86.7, 47.24, 37.43, 24.83	KGUP	Aero Radio, Inc., Phoenix, Ariz.	86.10, 53.29
KGKS	3rd Radio Zone, No. 49	170.06	KGSD	Aero Radio, Inc., Pueblo, Colo.	110.21, 109.72, 97.71, 97.5, 78.02, 54.15, 47.24, 37.43	KGUR	Aero Radio, Inc., Burbank, Calif.	120.53, 127.33, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 86.08, 72.9, 53.55, 53.45, 53.29, 45.87, 45.8, 45.73, 37.43
KGKT	3rd Radio Zone, No. 50	170.06	KGSE	Gulf Prod. Co., Portable	187.5, 181.6, 180.29, 178.6, 178.08	KGUS	Aero Radio, Inc., Lordsburg, N. Mex.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGKU	3rd Radio Zone, No. 51	170.06	KGTF	Aero Radio, Inc., Fresno, Calif.	94.85, 94.55, 53.835, 53.74, 52.98	KGUT	Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.57, 53.29, 47.92, 47.80
KGKZ	Humbolt Oil, No. 16	187.27, 176.47	KGTE	Aero Radio, Inc., Winslow, Ariz.	110.21, 109.72, 97.7, 97.53, 73.02, 54.16, 47.27, 37.43	KGUV	Aero Radio, Inc., Aero Radio, Inc., Ponca City, Okla.	94.9, 94.75, 94.54, 94.39, 54.26, 53.86, 53
KGL	Globe Wireless, Musselrich, Calif.	20.19	KGTD	Aero Radio, Inc., Texarkana, Ark.	123.53, 37.43	KGVO	Aero Radio, Inc., Aero Radio, Inc., Ponca City, Okla.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGM	Ketchikan, Alaska	120.3, 84.9	KGSP	Aero Radio, Inc., Lordsburg, N. Mex.	120.87, 88.7, 52.72, 46.8	KGVS	Aero Radio, Inc., Aero Radio, Inc., Blythe, Calif.	120.57, 127.08, 72.49, 47.92, 47.81
KGME	Texas, Ia. & Okla., Portable	175	KGSR	Amer. Radio Inc., Pueblo, Colo.	110.21, 109.72, 97.71, 97.5, 78.02, 54.15, 47.24, 37.43	KGUT	Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMF	Texas, Ia. & Okla., Portable	175	KGST	Gulf Prod. Co., Portable	187.5, 181.6, 180.29, 178.6, 178.08	KGVR	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMG	Texas, Ia. & Okla., Portable	175	KGTT	Aero Radio, Inc., Watertown, S. Dak.	94.86, 94.56, 94.26, 53.83, 53.74, 52.98	KGUV	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMH	Texas, Ia. & Okla., Portable	175	KGTD	Aero Radio, Inc., Wichita, Kans.	97.71, 97.52, 54.15	KGVT	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMI	Texas, Ia. & Okla., No. 7	175	KGTE	Aero Radio, Inc., Wichita, Kans.	94.8, 94.75, 94.54, 94.39, 92.28, 53.86, 53	KGVS	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMJ	Texas, Ia. & Okla., No. 11	175	KGTF	Aero Radio, Inc., San Diego, Calif.	123.53, 37.43	KGVR	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGMK	Portable	175	KGSG	Aero Radio, Inc., Sioux Falls, S. Dak.	94.86, 94.56, 94.26, 53.83, 53.74, 52.98	KGVS	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGML	Texas, Ia. & Okla., No. 8	175	KGTT	Aero Radio, Inc., Salt Lake City, Utah	110.21, 109.72, 97.71, 97.52, 73.02, 54.15, 47.24, 37.43	KGVT	Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Aero Radio, Inc., Robertson, Mo.	120.97, 127.98, 86.10, 72.46, 53.29, 47.92, 47.80
KGML	Texas, Ia. & Okla., No. 9	175	KGTS	Aero Radio, Inc., Las Vegas, Nev.	110.21, 109.72, 97.71, 97.52, 73.02, 54.15, 47.24, 37.43	KGVW	Nyac, Alaska	94.9
KGMN	Texas, Ia. & Okla., No. 10	175	KGTR	Aero Radio, Inc., Kingman, Ariz.	110.21, 109.72, 97.71, 97.53, 73.02, 54.15, 47.24, 37.42	KGUV	Cont. Oil Co., No. 7	187.5, 181.6, 180.29, 178.6, 178.08
KGMO	Portable	175	KGTM	Aero Radio, Inc., Sioux City, Ia.	94.86, 94.56, 94.26, 53.83, 53.74, 52.98	KGVT	E. R. P. I., Los Angeles, Cal.	193.65
KGMP	Atlantic	54.3, 54, 39.19, 27.15, 27	KGTO	Aero Radio, Inc., U. S. Throughout	94.86, 94.56, 94.26, 53.83, 53.74, 52.98	KGVS	Press Wireless, San Francisco, Calif.	63.93, 56.44
KGMQ	Patria	54.3, 54, 38.19, 27.15, 27	KGTP	Aero Radio, Inc., Kingman, Ariz.	103.24, 97.64, 97.32, 95.15, 54.45, 54.15, 52.83, 52.17	KGWT	Press Wireless, Dallas, Tex.	63.22
KGMU	F. F. F.	54.3, 54, 39.01, 27.15, 27	KGTR	Aero Radio, Inc., Las Vegas, Nev.	94.8, 94.75, 94.57, 94.39, 94.28, 53.86, 53	KGWC	Press Wireless, Kansas City, Mo.	60.30
KGMW	Wilm. Trans., Jimmie K.	118.85, 117.18, 116.65	KGTL	Aero Radio, Inc., Kingman, Ariz.	105.12, 99.83, 55.79	KGWE	Press Wireless, Denver, Colo.	63.49
KGNA	Western Radio Co., Crane, Tex.	59.11, 58.99, 51.9, 51.78, 51.03	KGTM	Aero Radio, Inc., Sioux City, Ia.	94.86, 94.56, 94.26, 53.83, 53.74, 52.98	KGWF	Press Wireless, Los Angeles, Calif.	60.66, 56.33
KGNB	Western Radio Co., Wink, Tex.	59.11, 58.99, 51.9, 51.78, 51.03	KGTO	Aero Radio, Inc., U. S. Throughout	103.24, 97.64, 97.32, 95.15, 54.45, 54.15, 52.83, 52.17	KGWH	Press Wireless, Seattle, Wash.	63.35
KGNC	Western Radio Co., Jal., N. Mex.	59.11, 58.99, 51.9, 51.78, 51.03	KGTP	Aero Radio, Inc., Springfield, Mo.	97.33, 88.5, 54.44, 47.13, 37.43, 24.63	KGWN	Press Wireless, Salt Lake City, Utah	60.91
KGNM	Doris E.	129.31, 123.65	KGTR	Aero Radio, Inc., St. Louis, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGWT	Lusitania	54.3, 54, 38.19
KGNR	Gulf Prod., Western States	176.06	KGTT	Aero Radio, Inc., Cheyenne, Wyo.	103.23, 97.83, 97.32, 97.15, 54.43, 54.15, 52.88, 52.7	KGWW	Export SS. Co., Excalibur	35.5, 27.15, 27, 22.46, 18.094
KGNT	Brant	129.3, 54.3, 53.42	KGTS	Aero Radio, Inc., Omaha, Nebr.	129.53, 37.43	KGWW	Rajo	54.3, 54, 45.21, 36.10, 36.01, 35.5, 27.15, 27
KGNX	Alaska Fisheries, Yes Bay	129.31	KGTT	Aero Radio, Inc., Beaumont, Tex.	92.8, 53.20	KGXA	Fox Films, Beverly Hills, Calif.	196.59
KGOA	Oakland, Calif.	118.85, 117.18, 116.09	KGTV	Aero Radio, Inc., Beaumont, Calif.	92.8, 53.30	KGWW	Fox Films, Beverly Hills, Calif.	193.30, 192.80
KGOB	Canadaolt	118.85, 117.18, 116.09	KGUA	Aero Radio, Inc., El Paso, Tex.	88.1, 53.57	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGOC	Wilmington, Trans., Listo	118.85, 117.18, 116.09	KGTV	Aero Radio, Inc., Beaumont, Calif.	92.8, 53.30	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGOD	Listo	118.85, 117.18, 116.09	KGUA	Aero Radio, Inc., El Paso, Tex.	88.1, 53.57	KGXB	Mutual Tel., Oahu Is., Hawaii	7.56
KGOD	Wilmington Trans. Co., Vivo	118.85, 117.18, 116.09	KGTV	Aero Radio, Inc., Beaumont, Calif.	92.8, 53.30	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGOF	W. P. C., No. 2	54.3, 54	KGUA	Aero Radio, Inc., Springfield, Mo.	97.33, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGOM	Zaca	36.19, 35.50, 27.15, 26.71, 22.66, 18.094	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGOR	David B.	94.22	KGUA	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGOS	Honolulu, Hawaii	115.55, 105.12	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGOT	Mauna, Hawaii	115.55, 105.12	KGUA	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGOU	Infanta	115.55, 105.12	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGOZ	Police, Cedar Rapids, Ia.	121.5	KGUA	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGP	Alaska Fishing Co., Alaska	129.3, 84.75	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGPA	Police, Seattle, Wash.	124.27	KGUA	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGPB	Police, Minneapolis, Minn.	124.17	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel., Oahu Is., Hawaii	6.494
KGPC	Police, St. Louis, Mo.	122.24	KGUA	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXA	Mutual Tel., Oahu Is., Hawaii	7.56
KGPD	Police, San Francisco, Calif.	124.5	KGTV	Aero Radio, Inc., Springfield, Mo.	97.3, 88.5, 54.44, 47.13, 37.43, 24.63	KGXB	Mutual Tel.,<br	

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KCXC	Mutual Tel., Okau Is., Hawaii	8.02	KHBXC	B. A. T., NC 725W	96.59, 94.57, 53	KHJOL	B. A. T., C 224M	96.58, 95.48, 53
KGXD	Mutual Tel., Okau Is., Hawaii	6.962	KHBYP	B. A. T., NC 228M	96.59, 94.57, 53	KHJQJ	B. A. T., C 417E	96.58, 95.48, 53
KGXE	Mutual Tel., Oahu Is., Hawaii	8.52	KHBAZ	B. A. T., NC 10225M	97.71, 96.58, 86.70,	KHJRI	B. A. T., NC 793K	96.59, 94.57, 53
KGXF	Mutual Tel., Oahu Is., Hawaii	7.177	KHCAY	W. A. E., F 104	97.71, 96.58, 86.70,	KHJSB	B. A. T., NC 226M	96.59, 94.57, 53
KGXG	Mutual Tel., Oahu Is., Hawaii	6.682	KHCFU	W. A. E., F 109	97.71, 96.58, 86.70,	KHJTG	B. A. T., NC 227M	96.59, 94.57, 53
KGXH	Mutual Tel., Oahu Is., Hawaii	6.198	KHCQT	W. A. E., F 110	97.71, 96.58, 86.70,	KHJUF	B. A. T., NC 842M	96.58, 94.57, 53
KGXI	Mutual Tel., Maui Is., Hawaii	6.903	KHCBS	W. A. E., F 111	97.71, 96.58, 86.70,	KHJVE	B. A. T., NC 220M	96.58, 94.57, 53
KGXJ	Mutual Tel., Maui Is., Hawaii	7.371	KHCJQ	W. A. E., F 114	97.71, 96.58, 86.70,	KHHKR	B. A. T., NC 229M	96.58
KGXK	Mutual Tel., Waikii, Hawaii	6.061	KHCKP	W. A. E., F 115	97.71, 96.58, 86.70,	KHJKP	B. A. T., NC 232M	17.751
KGXL	Mutual Tel., Waikii, Hawaii	7.79	KHCLD	W. A. E., Fokker 2	97.71, 96.58, 47.24	KHJYB	B. A. T., C 747I	96.59
KGXM	Mutual Tel., Waikii, Hawaii	8.26	KHCMN	W. A. E., Fokker 3	97.71, 96.58, 47.24	KHJZA	B. A. T., NC 234M	96.58
KGXN	Mutual Tel., Molokai, Hawaii	5.814	KHCOL	W. A. E., No. 401, W. A. E.	97.71, 96.58, 86.70,	KHK	Mutual Tel., Vieques Hawaii	54.3, 48.04, 18.008,
KGXO	Mutual Tel., Kalipa, Hawaii	6.34	KHCPK	W. A. E., No. 402, W. A. E.	97.71, 96.58, 86.70,	N. Y. R. B. A., X 657M	17.751	
KGXP	Mutual Tel., Lanai Is., Hawaii	5.525	KHCSD	W. A. E., No. 51, W. A. E.	97.71, 96.58, 86.70,	KHJPK	N. Y. R. B. A., Trinidad	96.59
KGXQ	Aero Radio, Inc., Mills Field, Calif.	32.6, 31.58, 29.72	KHCFU	W. A. E., No. 52, W. A. E.	97.71, 96.58, 86.70,	KHJLAZ	Mutual Tel., Waelich T. H.	62.45, 71.2
KGXS	Gulf Prod. Co., Portable, U. S. A.	187.5, 181.6, 180.29, 178.6, 178.08	KHCDW	W. A. E., No. 54	97.71, 96.58, 86.70,	KHJBY	P. A. T., C 178E	91.58, 95.48, 53
KGXT	Gulf Prod. Co., Portable, U. S. A.	187.27, 176.47	KHXC	W. A. E., No. 55	97.71, 96.58, 86.70,	KHLDW	P. A. T., NC 741K	91.58, 94.86, 94.50,
KGXU	Port Armstrong, Alaska	94.39	KHDAZ	T. A. T., City of New York	128	KHLOL	P. A. T., NC 439H	91.58, 94.86, 94.50,
KGXV	Kenni Kodiak, Alaska	101.82	KHDBY	T. A. T., Kansas City	128	KHLPK	P. A. T., NC 215M	92.98
KGXY	Gulf Prod. Co., Portable, U. S. A.	187.5, 181.6, 180.29, 178.6, 178.08	KHDCK	T. A. T., City of Albuquerque	128	KHLQJ	P. A. T., NC 584K	91.58, 94.86, 94.50,
KGYA	D. of Int., Mt. Rainier, Wash.		KHDDW	T. A. T., City of Washington	123	KHLSH	P. A. T., NC 435H	92.98
KGYB	D. of Int., Mt. Rainier, Wash.		KHDEY	T. A. T., City of Wichita	123	KHLTG	P. A. T., NC 437H	91.58, 94.86, 94.50,
KGYC	D. of Int., Mt. Rainier, Wash.		KHDFU	T. A. T., City of Los Angeles	123	KHLUF	P. A. T., NC 953H	91.58, 94.86, 94.50,
KGYD	D. of Int., Mt. Rainier, Wash.		KHDFG	T. A. T., City of Indianapolis	123	KHLVE	P. A. T., NC 955H	91.58, 94.86, 94.50,
KGYE	D. of Int., White River, Wash.		KHDHS	T. A. T., City of Columbus	123	KHLWD	P. A. T., NC 9655	91.58, 94.86, 94.50,
KGYF	D. of Int., Carlton River, Wash.		KHDIR	T. A. T., NC 9666		KHLZA	P. A. T., NC 1649	91.58, 94.86, 94.50,
KGYG	D. of Int., Mt. Rainier, Wash.		KHDJQ	T. A. T., City of St. Louis	128	KHLOL	P. A. T., NC 10348	91.58, 94.86, 94.50,
KGYH	D. of Int., Mt. Rainier, Wash.		KHDKP	T. A. T., City of Philadelphia	128	KHLPK	T. A. T., NC 215M	92.98
KGYI	D. of Int., Mt. Rainier, Wash.		KHDLO	T. & W. A., NC 127W		KHMDW	T. A. T., NC 185H	91.58, 94.86, 94.50,
KGYJ	D. of Int., Mt. Rainier, Wash.		KHDUF	T. A. T., NC 9686		KHMEV	T. A. T., NC 725K	91.58, 94.86, 94.50,
KGYT	Tyee, Alaska	118.2	KHOVE	T. A. T., NC 9638		KHMFU	T. A. T., NC 726K	91.58, 94.86, 94.50,
KGZ	Globe Wireless, Calif.	13.216	KHWD	T. A. T., NC 9639		KHMGT	T. A. T., NC 48.1	91.58, 94.86, 94.50,
KGZA	Police, Fresno, Calif.	124.17	KHDXC	T. A. T., NC 9640		KHMHS	T. & W. A., NC 933Y	91.58, 94.86, 94.50,
KGZB	Police, Houston, Tex.	175.23	KHDXB	T. A. T., NC 9641		KHMJQ	T. & W. A., NC 947Y	91.58, 94.86, 94.50,
KGZC	Police, Topeka, Kans.	123.58	KHECK	Suburban Lines, NC 9157	96.58	KHMKJ	T. & W. A., NC 961Y	91.58, 94.86, 94.50,
KGZD	Police, San Diego, Calif.	123.5	KHEMN	NC 830E		KHMLO	T. & W. A., NC 999Y	91.58, 94.86, 94.50,
KGZE	Police, San Antonio, Tex.	119.71	KHEPK	NC 100K	96.82	KHMNN	T. & W. A., NC 966Y	91.58, 94.86, 94.50,
KGZF	Police, Chanute, Kans.	122.4	KHERI	N. Y. R. B. A., Havana	96.58	KHMNM	T. & W. A., NC 985Y	91.58, 94.86, 94.50,
KGZG	Des Moines, Ia.	121.5	KHESH	N. Y. R. B. A., Cuba	96.58	KHMOL	T. & W. A., NC 986Y	91.58, 94.86, 94.50,
KHA	Uyak, Alaska	123.55	KHETQ	N. Y. R. B. A., San Juan	96.58	KHMOP	T. & W. A., NC 992Y	91.58, 94.86, 94.50,
KHAAZ	P. A. A., NC 9795	130.32, 97.5, 72.74	KHEYB	N. Y. R. B. A., Haiti	96.58	KHMQQ	T. & W. A., NC 993Y	91.58, 94.86, 94.50,
KHABY	P. A. A., NC 9766	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 9137	130.32, 97.5, 72.74	KHMRI	T. & W. A., NC 994Y	91.58, 94.86, 94.50,
KHADW	P. A. A., NC 9664	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 670M	112.70, 97.71, 96.58,	KHN	Mutual Tel. Co., Lanai, Hawaii	62.44, 62.17
KHAEV	P. A. A., NC 454E	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 814H	52.72	KHNAD	N. A. T., NC 369N	96.58, 92.13, 82.56, 46.69
KHAFU	P. A. A., NC 268	119.7, 71.62, 63.71	KHFAY	P. A. A., NC 9688	112.70, 97.71, 96.58,	KHNAY	Private, NR 914	96.58, 92.13, 82.56, 46.69
KHAHS	P. A. A., NC 9685	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 667M	52.72	KHNAX	Private, NC 447W	96.58, 92.13, 82.56, 46.69
KHAIR	W. A. E., F 103	97.71, 96.58, 86.70,	KHFAY	P. A. A., NC 142M	112.70, 97.71, 96.58,	KHNAY	Goodyear, NC 14A	96.58, 92.13, 82.56, 46.69
KHAKP	P. A. A., NC 8000	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 144M	52.72	KHNAY	Alaska-Wash., Sitka	96.58, 92.13, 82.56, 46.69
KHALO	P. A. A., NR 41. W		KHFAY	P. A. A., NC 146M	112.70, 97.71, 96.58,	KHNAY	C. A. T., NC 8486	96.58, 92.13, 82.56, 46.69
KHAMN	P. A. A., American Clipper	97.71, 97.5, 62.72, 34.68	KHFAY	P. A. A., NC 146M	52.72	KHNAY	C. A. T., NC 9677	96.58, 92.13, 82.56, 46.69
KHANM	P. A. A., Caribbean Clipper	97.71, 97.5, 62.72, 34.68	KHFAY	P. A. A., NC 300N	97.71	KHNAY	C. A. T., NC 9681	96.58, 92.13, 82.56, 46.69
KHAOL	P. A. A., NC 9701	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 9670		KHNAY	Std. Oil, Calif., NC 233M	96.58, 92.13, 82.56, 46.69
KHAQK	P. A. A., NC 8044	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 945M		KHNAY	Bell Lab., NC 953V	96.58, 92.13, 82.56, 46.69
KHARI	P. A. A., NC 9637	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 668M		KHNAY	Bell Lab., NC 417H	96.58, 92.13, 82.56, 46.69
KHASH	P. A. A., NC 9073	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 669M		KHNAY	Mutual Tel., Kaunukakai T. H.	96.58, 92.13, 82.56, 46.69
KHATH	P. A. A., NC 9107	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 8031	96.58, 95.10, 53.57	KHNAY	Private, NR 914	96.58, 92.13, 82.56, 46.69
KHAVE	P. A. A., NC 9151	130.32, 97.5, 72.74	KHFAY	P. A. A., NC 489E		KHNAY	Private, NC 447W	96.58, 92.13, 82.56, 46.69
KHAUD	P. A. A., NC 8021	130.32, 97.5, 72.74	KHFAY	S. A. T., NC 581K		KHNAY	Goodyear, NC 14A	96.58, 92.13, 82.56, 46.69
KHAXC	P. A. A., NC 3953	130.32, 97.5, 72.74	KHFAY	S. A. T., NC 651E		KHNAY	Alaska-Wash., Sitka	96.58, 92.13, 82.56, 46.69
KHAYB	Hoyt, NC 7770	130.32	KHFAY	Univ. Air Lines, NC 801E		KHNAY	C. A. T., NC 8486	96.58, 92.13, 82.56, 46.69
KHBAZ	P. A. T., C 269	119.7, 71.62, 63.71	KHFAY	S. A. T., NC 802E		KHNAY	C. A. T., NC 999K	96.58, 92.13, 82.56, 46.69
KHBBY	P. A. T., C 270	119.7, 71.62, 63.71	KHFAY	S. A. T., NC 9166		KHNAY	X 214	96.58, 92.13, 82.56, 46.69
KHBCX	P. A. T., C 272	119.7, 71.62, 63.71	KHFAY	S. A. T., NC 9167		KHNAY	X 215	96.58, 92.13, 82.56, 46.69
KHBEV	P. A. T., C 274	119.7, 71.62, 63.71	KHFAY	S. A. T., NC 9169		KHNAY	X 210	96.58, 92.13, 82.56, 46.69
KHBFU	P. A. T., NC 1003	96.62, 94.96, 94.56, 62.98	KHFAY	S. A. T., NC 9716		KHNAY	X 217	96.58, 92.13, 82.56, 46.69
KHBGT	B. A. T., C 276	119.7, 71.62, 63.71	KHFAY	Inter. Isl. Air., NC 305N	65.81, 45.39	KHNAY	X 218	96.58, 92.13, 82.56, 46.69
KHBHS	B. A. T., C 277	119.7, 71.62, 63.71	KHFAY	U. A. C. NC 805E	96.58, 95.45, 53	KHNAY	X 219	96.58, 92.13, 82.56, 46.69
KHBIR	B. A. T., NC 10353	119.7, 71.62, 63.71	KHFAY	KHIDW		KHNAY	X 220	96.58, 92.13, 82.56, 46.69
KHBJO	B. A. T., C 279	119.7, 71.62, 63.71	KHFAY	KHIEV	96.58	KHNAY	X 221	96.58, 92.13, 82.56, 46.69
KHBKP	B. A. T., C 281	119.7, 71.62, 63.71	KHFAY	KHIGT	96.58	KHNAY	X 222	96.58, 92.13, 82.56, 46.69
KHBLO	B. A. T., NC 10354	119.7, 71.62, 63.71	KHFAY	KHIIHS	96.58, 95.45, 53	KHNAY	X 223	96.58, 92.13, 82.56, 46.69
KHBMM	B. A. T., C 281	119.7, 71.62, 63.71	KHFAY	KHILP	96.58, 95.45, 53	KHNAY	X 224	96.58, 92.13, 82.56, 46.69
KHBOL	B. A. T., C 285	119.7, 71.62, 63.71	KHFAY	KHIMMN	96.58, 95.45, 53	KHNAY	X 225	96.58, 92.13, 82.56, 46.69
KHBQJ	B. A. T., C 287	119.7, 71.62, 63.71	KHFAY	KHINM	96.58, 95.45, 53	KHNAY	X 226	96.58, 92.13, 82.56, 46.69
KHBRI	B. A. T., C 288	119.7, 71.62, 63.71	KHFAY	KHITG	96.58, 95.45, 53	KHNAY	X 227	96.58, 92.13, 82.56, 46.69
KHBVE	B. A. T., C 292	119.7, 71.62, 63.71	KHFAY	KHITW	96.58	KHNAY	X 228	96.58, 92.13, 82.56, 46.69
KHBWO	B. A. T., NC 231	119.7, 71.62, 63.71	KHFAY	KHIYB	96.58	KHNAY	X 229	96.58, 92.13, 82.56, 46.69
KHBGT	B. A. T., C 276	119.7, 71.62, 63.71	KHFAY	NC 740M	96.58	KHNAY	X 230	96.58, 92.13, 82.56, 46.69
KHBHS	B. A. T., C 277	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 231	96.58, 92.13, 82.56, 46.69	
KHBIR	B. A. T., NC 10353	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 232	96.58, 92.13, 82.56, 46.69	
KHBJO	B. A. T., C 279	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 233	96.58, 92.13, 82.56, 46.69	
KHBKP	B. A. T., C 281	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 234	96.58, 92.13, 82.56, 46.69	
KHBLO	B. A. T., NC 10354	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 235	96.58, 92.13, 82.56, 46.69	
KHBMM	B. A. T., C 281	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 236	96.58, 92.13, 82.56, 46.69	
KHBOL	B. A. T., C 285	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 237	96.58, 92.13, 82.56, 46.69	
KHBQJ	B. A. T., C 287	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 238	96.58, 92.13, 82.56, 46.69	
KHBRI	B. A. T., C 288	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 239	96.58, 92.13, 82.56, 46.69	
KHBVE	B. A. T., C 292	119.7, 71.62, 63.71	KHFAY	96.58	KHNAY	X 240	96.58, 92.13, 82.56, 46.69	
KHBWO	B. A. T							

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	
KHRSH	Amer. Air, NC 11167	96.53, 53.26	KHVWD	N. W. Air., NC 8419 No. 33	105.11, 99.83, 96.61, 55.79	KHYNM	P. A. A., NC 9798	177.72, 97.71, 63.72, 34.68	
KHRIR	Amer. Air, NC 9690	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHVXC	N. W. Air., NC 8794 No. 45	105.11, 99.83, 96.61, 55.79	KHZ	Geo. Research Corp., 5th Rdo. Zone	176.06	
KHRJQ	Amer. Air, NC 9682	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHVB	N. W. Air., NC 9676 No. 34	105.11, 99.83, 96.61, 55.79	KIAL	Libbyville, Alaska	94.22	
KHRLO	D. of C., NS 1	96.59, 94.9	KHVZA	N. W. Air., NC 9933 No. 46	105.11, 99.83, 96.61, 55.79	KIAM	Libbyville, Alaska	A1-2-3 94	
KHRMN	Amer. Air., NC 9687	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHW	Geo. Research Corp., 5th Rdo. Zone	176.06	KIAQ	Rose Inlet, Alaska	97.01	
KHRNM	Amer. Air, NC 9667	96.59, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KHWAZ	E. A. T., NC 626V	97.71, 97.5, 52.72	KIAW	Rose Inlet, Alaska	97.01	
KHROL	Amer. Air, NC 207Y		KHWBY	E. A. T., NC 727K	97.71, 97.5, 52.72	KIB	Port Althorp, Alaska	119.42	
KHRPK	Amer. Air, NC 708Y		KHWCX	E. A. T., NC 728K	97.71, 97.5, 52.72	KIBC	Geo. Exp. Co., 3rd Rdo. Zone	176.06	
KHRQI	Amer. Air, NC 709Y		KHWDW	E. A. T., NC 585N	97.71, 97.5, 52.72	KIBV	No. 38	119.42	
KHRRI	Amer. Air, NC 710Y		KHWEV	E. A. T., NC 586N	97.71, 97.5, 52.72	KIBW	Union Bay, Alaska	91.88	
KHRSH	Amer. Air, NC 711Y		KHWF	E. A. T., NC 588N	97.71, 97.5, 52.72	KIBX	Fishing Co., Union Bay, Alaska	129.3	
KHRTG	Amer. Air, NC 712Y		KHWT	E. A. T., NC 589N	97.71, 97.5, 52.72	KIBY	Packing Co., Waterfall, Alaska	91.88	
KHRUF	Amer. Air, NC 713Y		KHWJQ	E. A. T., NC 601 U	97.71, 97.5, 52.72, A1-3	KIBZ	Fishing Co., Waterfall, Alaska	129.3	
KHRVE	Amer. Air, NC 714Y		KHWKP	E. A. T., NC 602 U	97.71, 97.5, 52.72	KIC	Geo. Exp. Co., 3rd Rdo. Zone	91.88	
KHRWD	D. of C., NS 1Y	96.59, 94.9, 50.47, 38.97	KHWLO	E. A. T., NC 620V	97.71, 97.5, 52.72	KICB	No. 37	176.06	
KHRXC	D. of C., NS 2Y	96.59, 94.9, 50.47, 38.97	KHWMN	E. A. T., NC 621U	97.71, 97.5, 52.72	KICC	Nakat Packing, Hadden Inlet, Alaska	129.3	
KHRYS	Amer. Air, NC 968V		KHWOL	E. A. T., NC 622U	97.71, 97.5, 52.72	KICD	Packing Co., Nakem, Alaska	91.88	
KHRZA	Amer. Air, NC 997V		KHWPK	E. A. T., NC 629U	97.71, 97.5, 52.72	KICE	Fishing Co., Nakem, Alaska	129.3	
KHS	Geo. Research Corp., 5th Rdo. Zone	176.06	KHWQJ	E. A. T., NC 410H	102.67, 101.83, 100.47, 56.62, 53.07, 51.30	KICG	Fishing Co., Union Bay, Alaska	91.88	
KHSCX	N. A. T., NA 7 No. 90	96.59, 94.9	KHX	Los Angeles, Calif.	119.9	KICI	Hulu, Honolulu, H. T.	105.12	
KHSDW	N. A. T., NA 7 No. 91	96.59, 94.9	KHXAZ	Amer. Air., NC 9671		KICJ	Fishing Co., Mauna, Hawaii	105.12	
KHSEV	N. A. T., NA 7 No. 72	96.59, 94.9	KHXBY	Amer. Air., NC 8485		KICL	Elwen Mile, Canyon, Colo.	94	
KHSFU	N. A. T., NA 7 No. 84	96.59, 94.9	KHXCX	Amer. Air., NC 415H		KICO	Chatham, Alaska	94	
KHSGT	N. A. T., NA 7 No. 92	96.59, 94.9	KHXDW	Amer. Air., NC 412H		KICT	Chatham, Alaska	94	
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	KICU	Steamboat Bay, Alaska	118.2	
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	KICV	Steamboat Bay, Alaska	94	
KHSKP	N. A. T., NA 7 No. 77	96.59, 94.9	KHXGT	Amer. Air., NC 734H	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	
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	KICX	Denver, Colo.	94	
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	KICZ	Mutual Tel. Co., Honolulu, Hawaii	93.89, 93.02, 82.45, 52.17	
KHSOL	N. A. T., NA 7 No. 88	96.59, 94.9	KHXJP	Amer. Air., NC 737N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KID	Fire Dept., Seattle, Wash.	192.53	
KHSPK	N. A. T., NA 7 No. 89	96.59, 94.9	KHXKT	Amer. Air., NC 738N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDA	Kasian, Alaska	97.01	
KHSQJ	N. A. T., NA 7 No. 86	96.59, 94.9	KHXLP	Amer. Air., NC 739N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDB	D. of Interior, California	91.88	
KHSQJ	N. A. T., NA 7 No. 86	96.59, 94.9	KHXLS	Amer. Air., NC 740N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDC	Nakat Packing, Hadden, La.	91.88	
KHSRI	N. A. T., NA 7 No. 87	96.59, 94.9	KHXMR	Amer. Air., NC 741N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDD	Alaska Packing, Chomly, Alaska	119.41	
KHSSH	N. A. T., NC 111Y NA 7	103.24, 96.59, 97.64, 94.9, 96.62, 94.75, 97.32, 94.57, 94.37, 97.15, 94.39, 92.89, 93.98, 62.71, 53	KHXNS	Amer. Air., NC 742N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDF	Alaska Packing, Chomly, Alaska	97.01	
KHSTG	N. A. T., NC 436II	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	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	KIDG	Alaska Packing, Chomly, Alaska	97.01	
KHSUF	N. A. T., NC 9157 No. 113		KHXPDW	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	KIDH	Cape Chacon, Alaska	97.01
KHSEV	N. A. T., NC 10355		KHXKT	Amer. Air., NC 738N	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	
KHSWD	N. A. T., NC 10351	96.59, 94.9, 94.76, 94.57, 94.39, 93.88, 53	KHXLP	Amer. Air., NC 739N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDL	Warner Bros., various states	196.69	
KHSXC	N. A. T., NC 10352	96.59, 94.9, 94.76, 94.57, 94.39, 93.88, 53	KHXLS	Amer. Air., NC 740N	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	196.69	
KHSYB	N. A. T., NC 434H	96.59, 94.9, 94.75, 94.57, 94.36, 94.26, 63.86, 63	KHXLO	Amer. Air., NC 739N	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	196.69	
KHTAZ	Alaskan Air., NC 153H	94.23, 63.37	KHXMR	Amer. Air., NC 740N	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	
KHTBY	Alaskan Air., NC 154H	94.23, 63.57	KHXNS	Amer. Air., NC 741N	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	
KHTCX	Alaskan Air., NC 174H	94.22, 53.57	KHXOT	Amer. Air., NC 742N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDW	Packing Co., Big Port, Alaska	119.42	
KHTHS	Amer. Air., NC 16804	96.62, 93.09, 92.8, 92.52, 92.09, 87.02, 88.62, 61.08, 61	KHXQJ	Amer. Air., NC 743N	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIDX	Port Alexander, Alaska	118.2	
KHTIR	Amer. Air., NC 10810	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53.55	KHXPK	Amer. Air., NC 10843	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KIJT	No. 17	176.06	
KHTJQ	Amer. Air., NC 10818	See KHTHS	KHXQJ	Amer. Air., NC 10844	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJRC	Great Towing Favorite	47.0	
KHTKP	Amer. Air., NC 10840	See KHTHS	KHXRI	Amer. Air., NC 10847	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJRD	Great Towing Favorite	64.3, 63.42, 38.01	
KHTLO	Amer. Air., NC 10846	See KHTHS	KHXSH	Amer. Air., NC 10893	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJRE	Export S. S. Co., Exchange	122.65	
KHTMN	Amer. Air., NC 10891	See KHTHS	KHXUF	Amer. Air., NC 982M	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTF	Geo. Exp. Co., 3rd Rdo. Zone	176.06	
KHTNM	Amer. Air., NC 10894	See KHTHS	KHXVE	Amer. Air., NC 10809	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTG	Buttercup, Ford Motor Co.	122.65	
KHTOL	Amer. Air., NC 11153	See KHTHS	KHXWD	Amer. Air., NC 484Y	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTK	Ogontz	25.68	
KHTPK	Amer. Air., NC 11155	See KHTHS	KHXXC	Amer. Air., NC 11119	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTL	R. C. A., Kabukco, T. H.	93.8, 93.27, 93, 50.55, 60.51	
KHTQJ	Amer. Air., NC 10814	96.59, 92, 63.20	KHXYS	Amer. Air., NC 11124	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTM	Zamboango, P. I.	107.01	
KHTRI	Amer. Air., NC 10845	96.59, 92, 63.20	KHYAZ	Amer. Air., NC 11120	96.59, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 61.03, 53.57, 53.29	KJTN	West Chiswald	50	
KHTSH	Amer. Air., NC 10858	96.59, 92, 63.20	KHYBY	P. A. A., NC 397H	115.56	KJTA	Humble Oil, Tex. and La.	176.06	
KHTTG	Amer. Air., NC 10872	96.59, 92, 63.20	KHYCX	P. A. A., NC 400H	117.72, 97.71, 52.72, 34.68	KJTB	No. 17	176.06	
KHTUF	Amer. Air., NC 10892	96.59, 92, 63.20	KHYDW	P. A. A., NC 403H	117.72, 97.71, 52.72, 34.68	KJTC	Guadalupe, Calif.	176.06	
KHTVE	Amer. Air., NC 12108	96.59, 92, 63.20	KHYEV	P. A. A., NC 4083	117.72, 97.71, 52.72, 34.68	KJTD	Zamboango, P. I.	129.3	
KHUAY	B. A. Co., NC 10339	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYFU	P. A. A., NC 7455	117.72, 97.71, 52.72, 34.68	KJTE	Humble Oil, Tex. and La.	176.06	
KHUYB	B. A. Co., C 875E	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYGT	P. A. A., NC 8039	117.72, 97.71, 52.72, 34.68	KJTF	Alaska Packing, Rose Inlet, Alaska	124.4	
KHUCD	Penna. Air., NC 10822	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYHS	P. A. A., NC 8410	117.72, 97.71, 52.72, 34.68	KJTG	Manila, P. I.	176.06	
KHUDW	Penna. Air., NC 10823	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYIR	P. A. A., NC 8417	117.72, 97.71, 52.72, 34.68	KJTH	Geo. Exp. Co., La., Miss., & Tex., No. 4	176.06	
KHUEV	Penna. Air., NC 10871	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYJQ	P. A. A., NC 9715	117.72, 97.71, 52.72, 34.68	KJTI	Manila, P. I.	24.4	
KHVEV	Ford Motor, NC 3141	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYLO	P. A. A., NC 9723	117.72, 97.71, 52.72, 34.68	KJTR	Geo. Exp. Co., La., Miss., & Tex., No. 2	176.06	
KHVEU	N. W. Air., NC 538E No. 24	105.11, 99.83, 96.61, 55.79	KHYMN	P. A. A., NC 9424	117.72, 97.71, 52.72, 34.68	KJTW	Manila, P. I.	24.4	
KHVGQ	N. W. Air., NC 303N	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYR	P. A. A., NC 8417	117.72, 97.71, 52.72, 34.68	KJXR	Geo. Exp. Co., La., Miss., & Tex., No. 1	176.06	
KHVS	Cont. Oil Co., NC 430H	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYQ	P. A. A., NC 9715	117.72, 97.71, 52.72, 34.68	KJY	Geo. Exp. Co., La., Miss., & Tex., No. 3	176.06	
KHVR	Nat. Pk. Air., NC 10356	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYR	P. A. A., NC 8417	117.72, 97.71, 52.72, 34.68	KJZ	Manila, P. I.	47.27	
KHVIQ	Nat. Pk. Air., NC 326N	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYQ	P. A. A., NC 9715	117.72, 97.71, 52.72, 34.68	KJKB	Cont. Oil, La., Miss., & Tex., No. 1	54.3, 54, 26.19, 35.5, 27.15, 26.71, 22.56, 18.09, 18.07	
KHVKP	Nat. Pk. Air., NC 330N	96.59, 94.9, 94.75, 94.57, 94.39, 93.88, 53	KHYR	P. A. A., NC 8417	117.72, 97.71, 52.72, 34.68	KJL	Globe Wireless, Sherwood, Calif.	39.5, 39, 59, 59, 50.51	
KHVLQ	Nat. Pk. Air., NC 6709	96.59, 94.9, 94.75, 94.57, 94.39, 93.							

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KKC	Fed. T. & T., Palo Alto, Calif.		KNS	Geo. Exp. Co.			Edmonds, Wash.	96.61, 96.15, 54.35,
KKD	Geo. Exp. Co., 3rd Rdo. Zone No. 35.	176.06	KNT	3rd Radio Zone, No. 18	176.06			48.31, 46.8, 31.23,
KKF	Geo. Exp. Co., 3rd Rdo. Zone No. 34.	176.06	KNU	Geo. Exp. Co.				34.52, 27.11, 26.56,
KKH	R. C. A., Honolulu, Hawaii	40.45	KNV	3rd Radio Zone, No. 16	176.06			24.15, 24.01, 18.116,
KKJ	Fort Worth, Texas	83, 89.8, 50.51, 50.34	KNW	D. of C. Burley, Idaho	83.8, 89.50, 50.51, 50.34	KSB	Geo. Exp. Co., 3rd Radio Zone, No. 29	176.06
KKL	R. C. A., Bolinas, Calif.	10.386	KNW	M. R. T. Co., Palo Alto, Calif.	44.02, 14.03	KSE	R. C. A., Torrance, Calif.	96.61, 96.15, 54.35,
KKO	Aero Radio, Inc., Elko, Nev	118.7, 99.7, 91.2, 71.8, 53.7, 50.08	KNW	Aero Radio Corp., Minneapolis, Minn.	119.94, 99.86, 55.81			54.05, 36.28, 35.83,
KKP	R. C. A., Kohuku, Hawaii	21.89	KNW	Aero Radio Co., Fargo, N. D.	111.84, 99.89, 55.18			27.17, 26.81, 24.15,
KKQ	R. C. A., Bolinas, Calif.	25.10	KNW	Aero Radio Corp., Pechina, N. D.	119.94, 99.86, 55.81			22.94, 18.116,
KKR	R. C. A., Bolinas, Calif.	19.40	KNW	Aero Radio, Inc., Bismarck, N. D.	112.44, 112.27, 106.11, 99.83, 55.79	KSF	Ponca City, Okla.	187.27, 184.28,
KKS			KNY	Geo. Exp. Co., 3rd Radio Zone No. 33.	176.06	KSG	D. of C., Cheyenne, Wyo.	178.99, 176.47,
KKU	Geo. Exp. Co., 3rd Rdo. Zone No. 32.	176.06	KNZ	3rd Radio Zone, No. 12	176.06	KSI	Aero Radio, Inc., Los Angeles, Calif.	89.2, 89.50, 50.51
KKV	Geo. Exp. Co., 3rd Rdo. Zone No. 31.	176.06	KOC	3rd Radio Zone, No. 11	176.06	KSM	Globe Wireless, Los Angeles, Calif.	110.3, 109.8, 103.23,
KKW	R. C. A., Bolinas, Calif.	18.42	KOD	D. of C., Sacramento, Calif.	83.8, 89.50, 50.51, 50.34	KSR	D. of C., Pleasant Valley, Nev.	96.61, 96.15, 54.35,
KKX	Geo. Exp. Co., 3rd Rdo. Zone No. 30.	176.06	KODZ	3rd Radio Zone, No. 10	176.06	KSS	Fishing Co., Tyee, Alaska	48.31, 46.8, 36.23,
KKY	Geo. Exp. Co., 3rd Rdo. Zone No. 29.	176.06	KOE	U. S. S. B., Bangor		KST	R. C. A., Bolinas, Calif.	34.52, 27.17, 26.56,
KKZ	R. C. A., Bolinas, Calif.	21.91	KOF	Aero Radio, Inc., Cheyenne, Wyo.	120.87, 119.71, 94.9, 94.75, 94.57, 72.74, 53.88, 53, 48.27,	KSV	Aero Radio, Inc., Kansas City, Mo.	24.15, 24.1, 18.116,
KLA	Humble Oil, Texas & La. No. 12.	176.06	KOG	Geo. Exp. Co., 3rd Radio Zone, No. 5	176.06	KSQ	D. of C., Pleasant Valley, Nev.	17.921
KLC	Shell Co., Calif.	109.4	KOL	Tel. Co., Honolulu, T. H.	74.9, 71.2, 67.34, 51.37, 18.09, 17.75	KSR	Fishing Co., Tyee, Alaska	91.89, 50.51, 50.46
KLE	Humble Oil, Tex. & La., No. 11	176.06	KOM	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSS	R. C. A., Bolinas, Calif.	123.56
KLG	Humble Oil, Tex. & La., No. 9	176.06	KON	D. of C., Elko, Nev.	89.8, 89.50, 50.51, 50.34	KST	Aero Radio, Inc., Kansas City, Mo.	14.40
KLH	P. T. & T. Co., San Francisco, Calif.	118.01	KOP	Various		KSV	Aero Radio, Inc., Amarillo, Tex.	110.21, 108.72, 97.71,
KLI	Humble Oil, Tex. & La., No. 8	176.06	KOJ	Geo. Exp. Co., Chickasaw	176.06	KSW	Aero Radio, Inc., Amarillo, Tex.	97.53, 97.32, 87.15,
KLK	D. of C., Reno, Nevada	89.8, 88.8, 50.51, 50.36	KOJ	Geo. Exp. Co., 3rd Radio Zone, No. 5	176.06	KSX	Aero Radio, Inc., Albuquerque, N. M.	54.44, 54.15, 47.24,
KLL	R. C. A., Bolinas, Calif.	21.85	KOK	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSV	Aero Radio, Inc., Amarillo, Tex.	47.13, 37.43
KLN	Mutual Tel., Hilo, T. H.	62.45, 72.39	KOM	D. of C., Elko, Nev.	89.8, 89.50, 50.51, 50.34	KSW	Police, Berkeley, Calif.	110.3, 108.8, 103.23,
KLT	Humble Oil, Tex. & La., No. 10	176.06	KON	Various		KSX	Aero Radio, Inc., Albuquerque, N. M.	97.63, 97.32, 87.15,
KLU	Flagstaff, Ariz.	147	KOP	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSV	Aero Radio, Inc., Amarillo, Tex.	72.99, 54.16, 52.58,
KLV	Flagstaff, Calif.	147	KOQ	Press Wireless, San Francisco, Calif.	19.07	KSW	Aero Radio, Inc., Amarillo, Tex.	62.7, 46.08, 46.01,
KLW	Port Althrop, Alaska		KOQ	Press Wireless, San Francisco, Calif.	19.07	KSX	Aero Radio, Inc., Amarillo, Tex.	45.94
KLY	Humble Oil, Tex. & La., No. 7	176.06	KOS	Press Wireless, Los Angeles, Calif.	19.07	KSV	Police, Berkeley, Calif.	123.88
KMD	Humble Oil, Tex. & La., No. 6	176.06	KOT	Geo. Exp. Co., 3rd Radio Zone, No. 5	176.06	KSW	Aero Radio, Inc., Amarillo, Tex.	46.08, 46.01, 45.94,
KME	D. of C., Strell, Idaho	89.8, 88.8, 50.51, 50.35	KOU	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSX	Aero Radio, Inc., Albuquerque, N. M.	110.3, 108.8, 103.23,
KMF	Egglek, Alaska	94.22	KOW	Various		KSV	Aero Radio, Inc., Amarillo, Tex.	97.63, 97.32, 87.15,
KMI	Humble Oil, Tex. & La., No. 5	176.06	KPE	Geo. Exp. Co., 3rd Radio Zone, No. 4	176.06	KSW	Aero Radio, Inc., Amarillo, Tex.	72.99, 54.16, 52.58,
KML	Libby Fishing, Lockanok, Alaska	94.22	KPG	Press Wireless, Los Angeles, Cal.	19.07	KSX	Aero Radio, Inc., Amarillo, Tex.	62.7, 46.08, 46.01,
KMM	R. C. A., Bolinas, Calif.	14.43	KPH	Press Wireless, San Francisco, Calif.	19.07	KSV	Police, Berkeley, Calif.	45.94
KMN	San Francisco, Calif.	51.69	KQD	Press Wireless, San Francisco, Calif.	19.07	KSW	Aero Radio, Inc., Amarillo, Tex.	123.88
KMP	Aero Radio, Inc., Omaha, Neb.	120.87, 119.71, 94.9, 94.75, 94.33, 72.74, 53.88, 53, 48.27	KPI	Cebu, P. I.	43.5	KTP	R. C. A., Manila, P. I.	27.6, 18.47
KMR	Aero Radio, Inc., North Platte, Neb.	94.9, 94.75, 94.57, 94.39, 53.89, 53	KPM	Hilo, P. I.	44	KTR	R. C. A., Manila, P. I.	37.58, 38.95
KMS	Humble Oil, Tex. & La., No. 4	176.06	KQC	Amer. Radio, Inc., Rock Springs, Wyo.	19.07	KTS	R. C. A., Manila, P. I.	27.5
KMV	W. A. E., Bandini, Calif.	49.5	KQD	Amer. Radio, Inc., Salt Lake City, Utah	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 53.89, 53	KTT	Govt., Toling, P. I.	42.8
KMX	Humble Oil, Tex. & La., No. 3	176.06	KQG	Amer. Radio, Inc., Salt Lake City, Utah	120.87, 119.71, 94.9, 94.75, 94.57, 94.39, 53.89, 53	KTU	Drier Bay, Alaska	36.55
KMY	Humble Oil, Tex. & La., No. 2	176.06	KQH	R. C. A., Bolinas, Calif.	15.77	KTY	Aero Radio, Inc., Redding, Calif.	94.8, 94.75, 94.57,
KMZ	Humble Oil, Tex. & La., No. 1	176.06	KQJ	R. C. A., Kahuku, T. H.	16.61	KTY	M. R. T., Manila, P. I.	94.39, 53.89, 53
KNA	M. R. T. Co., Palo Alto, Calif.	68.24, 68.14, 50.20, 60.147	KQK	D. of C., Oklahoma City, Okla.	23.6, 23.8, 50.51, 50.34	KTZ	Naknek, Alaska	53.68, 26.84, 17.89,
KNAS	Aero Radio, Inc., Kansas City, Mo.	94.9, 94.75, 94.57, 94.39, 53.88, 53	KQL	Hidden Inlet, Alaska	129.3	KUF	Steel Voyager	17.04
KNAT	Aero Radio, Inc., Dallas, Texas	94.75, 94.57, 94.39, 53.89, 53	KQM	Aero Radio, Inc., Des Moines, Iowa	129.3, 94.75, 94.57, 94.39, 53.88, 53	KUG	Govt., Dast, P. I.	39.45
KNAU	Aero Radio, Inc., Tulsa, Okla.	94.9, 94.75, 94.57, 94.39, 53.88, 53	KQQ	Minneapolis, Minn.	97.7, 46.05	KUH	Manila, P. I.	50.885
KNAV	Aero Radio, Inc., Oklahoma City, Okla.	94.2-3, 94.9, 94.75, 94.57, 94.39, 53.88, 53	KQR	Aero Radio, Inc., Iowa City, Iowa	129.3, 94.75, 94.57, 94.39, 53.88, 53	KUI	Govt., Balanga, P. I.	44
KNB	Texas Co., La., Miss. & Tex., No. 5	176.06	KQS	R. C. A., Bolinas, Calif.	16.63	KUKV	States, S. S. Co., California	50.55
KNC	Texas Co., La., Miss. & Tex., No. 15	176.06	KQT	Lone Pine, Calif.	16.63	KUN	R. C. A., Bollinas, Calif.	54.3, 35.5, 27.15,
KND	Texas Co., La., Miss. & Tex., No. 16	176.06	KQX	Market Service, Los Angeles, Calif.	16.63	KUP	Newspaper, San Francisco, Calif.	26.71, 18.09, 18.007,
KNE	Texas Co., La., Miss. & Tex., No. 18	176.06	KQZ	Aero Radio, Inc., Bakerfield, Calif.	16.63	KUN	R. C. A., Bollinas, Calif.	18.61
KNF	Texas Co., La., Miss. & Tex., No. 19	176.06	KRA	Aero Radio Corp., Boise, Idaho	16.63	KUP	Newspaper, San Francisco, Calif.	53.71, 45.84, 39.45,
KNG	Portable, Calif.	51.69	KRB	State Agric., Salinas, Calif.	16.63	KUW	Police, Dallas, Texas	28.85, 18.23, 46.58,
KNI	Wilmington, Calif.	114.9	KRC	D. of C., Parkville, Mo.	16.63	KUX	Steamboat Bay, Alaska	35.92, 26.46, 17.964,
KNK	M. R. T., Palo Alto, Calif.	20.44, 20.39, 15.97, 15.25	KRD	Aero Radio, Inc., Pasco, Wash.	16.63	KVU	Manila, P. I.	12.498
KNL	Geo. Exp. Co., 3rd Radio Zone, No. 21	176.06	KRF	Aero Radio, Inc., Lincoln, Neb.	16.63	KVU	Manila, P. I.	16.48
KNM	Geo. Exp. Co., 3rd Radio Zone, No. 20	176.06	KRG	State Dept., San Francisco, Calif.	16.63	KVU	Manila, P. I.	90.8
KNN	M. R. T., Honolulu, T. H.		KRJ	State Dept., Sacramento, Calif.	16.63	KVU	Manila, P. I.	24.43
KNO	Libby Fishing, Nushagak, Alaska	94.22	KRK	M. R. T. Co., Palo Alto, Calif.	16.63	KVU	Manila, P. I.	32.33
KNQ	Geo. Exp. Co., 3rd Radio Zone, No. 19	176.06	KRM	State Dept., Los Angeles, Calif.	16.63	KVU	Cayagan, P. I.	58.09
KNR	M. R. T., Clearwater, Calif.	96.61, 96.15, 54.35, 38.25, 35.84, 27.17, 18.116, 17.857, 13.746, 13.587	KRO	State Dept., San Francisco, Calif.	16.63	KVU	Dollar S. S. Co., Manila, P. I.	53.97, 28.88, 17.99
KRP	R. C. A., Honolulu, T. H.	51.23	KRP	State Dept., Salt Lake City, Utah	16.63	KVU	D. C. of Pacif. Coast	Var.
KRR	Geo. Exp. Co., 3rd Radio Zone, No. 18	176.06	KRR	D. of C., Parkville, Mo.	16.63	KVU	D. C. of Pacif. Coast	Var.
KRV	M. R. T. Co., Palo Alto, Calif.	49.5	KRV	Aero Radio, Inc., Pasco, Wash.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVT	Police, Dallas, Texas		KVT	Aero Radio, Inc., Lincoln, Neb.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVV	W. A. E., Las Vegas, Nev.	40.48	KVT	State Dept., San Francisco, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVV	Los Angeles, Calif.	147.6	KVV	State Dept., Sacramento, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVU	San Diego, Calif.	144.8	KVU	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVUA	Lake Ormoc, Ford Motor Co.	54.3, 54, 36.01, 27.15, 27, 18.09, 18.07	KVU	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVVA	Libby Fishing, Koggiung, Alaska	94.22	KVVA	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KVWB	Light Dept., Seattle, Wash.	Var.	KVWB	State Dept., Salt Lake City, Utah	16.63	KVU	D. C. of Pacif. Coast	Var.
KWKA	M. R. T. Co., Palo Alto, Calif.	39.15	KWKA	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KWKB	M. R. T. Co., Palo Alto, Calif.	38.75	KWKB	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.
KWC	M. R. T. Co., Palo Alto, Calif.	33.9	KWC	State Dept., Los Angeles, Calif.	16.63	KVU	D. C. of Pacif. Coast	Var.

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
KWD	M. R. T. Co., Palo Alto, Calif.	33.87	KZSP	Govt., Legaski, P. I.	54.31, 50.34	NESC	U. S. S. Paducah	
KWE	R. C. A., Bolinas, Calif.	19.44	KZSR	Govt., Surigao, P. I.	62.825	NETC	U. S. S. Pittsburgh	
KWF	M. R. T. Co., Palo Alto, Calif.	27.73	KZTB	Govt., Tacloban, P. I.	58.09	NEVF	U. S. N. Vaga	
KWI	M. R. T. Co., Palo Alto, Calif.	27.55	KZTC	Govt., Leyte, P. I.	43.17	NEVJ	U. S. N. Sacramento	
KWJ	M. R. T. Co., Palo Alto, Calif.	23.08	KZTG	Govt., Samar, P. I.	59.94	NEVN	U. S. S. New Mexico	
KWK	R. C. A., Bolinas, Calif.		KZTL	Tolong, P. I.	42.8	NFB	U. S. N. Detroit, Mich.	
KWM	M. R. T. Co., Palo Alto, Calif.	26.35	KZV	Nushagak, Alaska	56	NFD	U. S. N. Balboa, C. Z.	
KWN	A. T. & T., Dixon, Calif.	14.245	KZZB	Govt., Zamboanga, P. I.	32.15	NFV	U. S. N. Quantico, Va.	86.32
KWO	A. T. & T., Sacramento, Calif.	44.41, 32.72, 30.40, 20.58, 15.136	KZZG	Govt., Zamboanga, P. I.	48.54, 43.73	NHP	U. S. N. Honolulu, Hawaii	74.12, 18.54
		14.245		Arlington, Va.	74.72, 71.34, 67.64, 35.85, 33.82, 23.78	NIC	U. S. N. Honolulu, Hawaii	
					22.54, 18.67, 17.8	NID	U. S. N. Akron, Ohio	
						NIDN	U. S. S. Augusta	
KWP	M. R. T. Co., Palo Alto, Calif.	16.968	NAB	U. S. N. Eastport, Me.		NIFT	U. S. S. Tennessee	
KWQ	M. R. T. Co., Palo Alto, Calif.	16.429	NABD	U. S. S. Indianapolis		NIJJ	U. S. S. Louisville	24
KWR	Port Moller, Alaska	51.02	NABF	U. S. S. Ranger		NIJQ	U. S. S. Bobolink	
KWS	M. R. T. Co., Palo Alto, Calif.	14.032	NABJ	U. S. N. New Orleans, La.		NIJX	U. S. S. Utah	
KWT	M. R. T. Co., Palo Alto, Calif.	63.24, 16.98	NAC	U. S. N. Portsmouth, N. H.		NIKD	U. S. S. Rochester	
KWV	Pacific Air T., Bakersfield, Calif.		NACB	U. S. S. Portland		NIKM	U. S. S. Lexington	
KXB	Inglewood, Calif.		NACD	U. S. S. Astoria		NIQF	U. S. S. Houston	
KXK	Alaska Fishing, Funter, Alaska		NACF	U. S. S. Minneapolis		NIQJ	U. S. S. Tah	
KXW	Ikatara, Alaska		NACT	U. S. S. Arkansas		NIQL	U. S. S. S. C.	
KYB	Honolulu, Hawaii	94.9	NACV	U. S. S. Arizona		NIRN	U. S. S. Wright	
KYG	Globe Wireless, Honolulu, Hawaii		NAD	U. S. N. Boston, Mass.		NIRR	U. S. S. Marblehead	
		96.61, 96.15, 54.35, 43.31, 46.88, 36.23, 34.56, 27.17, 26.8, 24.15, 24.01, 18.110, 17.921, 13.587, 13.333	NADT	U. S. S. New York		NIRT	U. S. S. Raleigh	
KYI	Kings Mills, Texas	59.11, 58.99, 51.9, 51.76, 51.63	NADV	U. S. S. Texas		NIRV	U. S. S. Concord	
KYK	Karluk, Alaska	123.65, 94.39	NADX	U. S. S. Pennsylvania		NIRX	U. S. S. Canopus	
KYM	Koichak, Alaska	86	NAF	U. S. N. Newport, R. I.		NI SJ	U. S. S. Pensacola	
KYU	Wichita Falls, Texas	45.02	NAFC	U. S. S. Dickerson		NISK	U. S. S. Salt Lake City	
KYY	Los Angeles, Calif.	146.3	NAFL	U. S. S. Lexy		NISL	U. S. S. Omaha	
KYZ	Libby Fishing, Kenai, Alaska	94.22	NAFT	U. S. S. California		NISM	U. S. S. Milwaukee	
KZA	Inglewood, Calif.		NAFV	U. S. S. Chester		NISN	U. S. S. Cincinnati	
KZAB	Manila R. R., Samara, P. I.	53.42	NAG	U. S. S. Squantum, Mass.		NISP	U. S. S. Detroit	
KZAC	Manila R. R., Bicol, P. I.	53.43	NAGM	U. S. S. Chicago		NISQ	U. S. S. Richmond	
KZAM	Manila R. R., Naga, P. I.	53.42	NAH	U. S. N. New York, N. Y.		NISR	U. S. S. Trenton	
KZAP	Mayon, P. I.	70.5, 36.01, 35.95, 27	NAI	U. S. N. Philadelphia, Pa.		NISS	U. S. S. Memphis	
KZAR	Mindow	36	NAK	U. S. N. Annapolis, Md.		NISX	U. S. S. Argonne	
KZAV	Venus	36	NAKP	U. S. S. Dubuque	86.32	NITR	U. S. S. Wyoming	
KZAW	Kanban	54.3, 54, 36.01, 27.15, 18.054, 18.007	NAL	U. S. S. Washington, D. C.		NKF	U. S. N. Radio Lab.	
KZAY	Florence D.	62.18	NAM	U. S. N. Norfolk, Va.		Anacostia, D. C.		
KZB	Los Angeles, Calif.	44.03	NAN	U. S. N. Cape Lookout, N.C.		NMC	U. S. C.G. Point Bontin, Calif.	
KZBD	A. G. & P., Salvager	54.53, 71, 53.42, 53.14	NANB	U. S. N. Charleston, S. C.		NMF	U. S. C.G. Nahant, Mass.	
KZBH	Bustamente	54.3, 53.05, 36	NATB	U. S. N. Wilmette		NMG	U. S. C.G. Mobile, Ala.	
KZBR	Trabajador	35.97, 26.79	NATB	U. S. N. Antares		NMH	U. S. C.G. Washington, D. C.	
KZBT	Butuan, Alaska	42.9	NAU	U. S. N. San Juan, P. R.		NNM	U. S. C.G. Cape Henry, Va.	
KZCB	Govt., Cebu, P. I.	54.60	NAV	U. S. S. M. C. Paris Is., S. C.		NNM	U. S. C.G. Ft. Lauderdale, Fla.	
KZCD	Govt., Cebu, P. I.	40.82	NAVD	U. S. S. Wilmette		NNM	U. S. C.G.	
KZCF	Govt., Cebu, P. I.	62.825, 54.79	NAVX	U. S. S. Idaho		NMM	Port Townsend, Wash.	
KZCK	Davao, P. I.	50	NAY	U. S. N. Guantanamo, Cuba		NMY	U. S. C.G. Rockaway, N. Y.	
KZCM	Govt., Manila, P. I.	50.88, 44.61	NBA	U. S. N. Brownsville, Tex.		NOA	U. S. C.G. Staten Is., N. Y.	
KZCN	Cebu, P. I.	47	NBB	U. S. N. Balboa, C. Zone		NOB	U. S. C.G. Buffalo, N. Y.	
KZCP	Manila, P. I.	44	NBC	U. S. N. Virgin Islands		NOC	U. S. C.G. Barataria, La.	
KZCR	Philippine Islands	64.3	NBD	U. S. N. Caco Island, C. Zone		NOD	U. S. C.G. Block Is., R. I.	
KZDB	Apo	54, 53, 36	NBE	U. S. N. Bar Harbor, Maine		NOF	U. S. C.G. St. Petersburg, Fla.	
KZDD	Govt., Davao, P. I.	32.5	NBF	U. S. N. Thatcher Is., Mass.		NOG	U. S. C.G. Gloucester, Mass.	
KZDV	Govt., Davao, P. I.	59.23, 59.02	NBG	U. S. N. Oakland, Calif.		NOH	U. S. C.G. Charleston, N. C.	
KZED	R. C. A., Manila, P. I.	27.5	NBO	U. S. N. St. Louis, Mo.		NOI	U. S. C.G. Biloxi, Miss.	
KZEF	Atlantic Gulf	36	NBP	U. S. N. New York, N. Y.		NOJ	U. S. C.G. San Pedro, Calif.	
KZEN	R. C. A., Manila, P. I.	15	NBQ	U. S. N. Miami, Fla.		NOL	U. S. C.G. Anacostia, Wash.	
KZFB	Goodyear Co., Kabasalar, P. I.	63.35	NBU	U. S. N. Great Lakes, Ill.		NOM	U. S. C.G. Port Angeles, Wash.	
KZFC	Lumber Co., Ft. Lamon, P. I.	62.825	NCQ	U. S. N. San Juan, P. R.	67.64, 33.82	NON	U. S. C.G. Miami, Fla.	
KZFD	Lumber Co., Lumacao, P. I.	170	NCG	U. S. N. San Juan, P. R.	67.64, 33.82	NOV	U. S. C.G. San Diego, Calif.	
KZFF	Lumber Co., Manila, P. I.	63.76	ND	U. S. N. Minneapolis, Minn.		NOY	U. S. C.G. Woods Hole, Mass.	
KZFG	Manila, P. I.	61.42	ND	U. S. N. Tufts College, Mass.	40.45	NPZJ	U. S. S. S. C. 412	
KZFG	Fabrica, P. I.	63.76	ND	U. S. N. New York, N. Y.	40.45	NPA	U. S. N. Cordova, Alaska	34.2
KZFH	Hilo, P. I.	61.80	ND	U. S. N. Pittsburgh, Pa.	40.45	NPC	U. S. N. Puget Sound, Wash.	68.38, 34.20
KZFL	Insular Govt., Milbuk, P. I.	63.85	ND	U. S. N. Norfolk, Va.	40.45	NPG	U. S. N. San Francisco, Calif.	21.88
KZFM	Manila, P. I.	62.17	ND	U. S. N. R. Tufts College, Mass.	40.45	NPL	U. S. N. San Diego, Calif.	99.83, 68.38, 34.2
KZFN	Sipaco, P. I.	62.17	ND	U. S. N. R. New York, N. Y.	40.45	NPM	U. S. N. Honolulu, Hawaii	35.87, 68.38, 34.81
KZFQ	Manila, P. I.	61.42	ND	U. S. N. R. Pittsburgh, Pa.	40.45	NPN	U. S. N. R. Cavite, P. I.	33.81, 22.54, 33.15
KZFR	Cebu, P. I.	61.42	ND	U. S. N. R. Seattle, Wash.	40.45	NPP	U. S. N. R. Peking, China	67.63, 33.81
KZFT	Manila R. R. Co., Naga, P. I.	63.38	ND	U. S. N. R. Winnetka, Ill.	40.45	NPQ	U. S. N. R. St. Paul, Prebiloi Is.	68.38, 34.2
KZFW	Sumagui, P. I.	51.79	ND	U. S. N. R. San Diego, Calif.	40.45	NPU	U. S. N. R. Tutela, Samoa	68.38, 34.2
KZFY	Sumagui, P. I.	62.18	ND	U. S. N. R. Jacksonville, Fla.	40.45	NRCF	U. S. C.G. Redwing	
	Manila Electric Co., Manila, P. I.		ND	U. S. N. R. Washington, D. C.	40.45	NRCG	U. S. C.G. Gresham	
KZFZ	Manila, P. I.	75.3	ND	U. S. N. R. Oakland, Calif.	40.45	NRCO	U. S. C.G. Osprey	
KZGF	Batocon, P. I.	75.7	ND	U. S. N. R. Kansas City, Mo.	40.45	NRCD	U. S. C.G. Tucarora	
KZGF	Radio Telephone Comm., Manila, P. I.	109.8, 52, 32.7	ND	U. S. N. R. Seattle, Wash.	40.45	NRCG	U. S. C.G. Seneca	
KZGG	Radiophone Long Dist., Cebu, P. I.	103, 51.5, 33.6	ND	U. S. N. R. Winnetka, Ill.	40.45	NRCK	U. S. C.G. Unalga	
KZGH	Radio Telephone Co., Hilo, P. I.	40.05	ND	U. S. N. R. San Diego, Calif.	40.45	NRCV	U. S. C.G. Tallapoosa	
			ND	U. S. N. R. Jacksonville, Fla.	40.45	NRCW	U. S. C.G. Seminole	
			ND	U. S. N. R. Los Angeles, Calif.	40.45	NRCY	U. S. C.G. Amacraw	
			ND	U. S. N. R. Cape Hatteras, N. C.	40.45	NRDA	U. S. C.G. Cassin	
			ND	U. S. N. R. Baltimore, Md.	40.45	NRDC	U. S. C.G. Conyngham	
			ND	U. S. N. R. New Orleans, La.	40.45	NRDD	U. S. C.G. Davis	
			ND	U. S. S. Colorado	54.15, 32	NRDK	U. S. C.G. Hun	
			ND	U. S. S. West Virginia		NRDL	U. S. C.G. Wilborn C. Wood	
			ND	U. S. S. Charlotte, N. C.		NRDM	U. S. C.G. Herndon	
			ND	U. S. S. Northampton		NRDO	U. S. C.G. McDougal	
			ND	U. S. S. Ensenada, P. R.		NRDP	U. S. C.G. Porter	
			ND	U. S. S. Melville		NRDQ	U. S. C.G. Abel P. Upshur	
			ND	U. S. S. Falcon		NRDS	U. S. C.G. Shaw	
			ND	U. S. S. Mississippi		NRDU	U. S. C.G. Tucker	
			ND	U. S. S. Lakehurst, N. J.	67.62	NRDW	U. S. C.G. Wilkes	
			ND	U. S. S. Saratoga		NRFA	U. S. C.G. Wainwright	
			ND	U. S. S. Medusa		NRFC	U. S. C.G. Cachilia	
			ND	U. S. S. Schenck		NRFO	U. S. C.G. Apache	
			ND	U. S. S. Herbert		NRFF	U. S. C.G. Carrahasset	
			ND	U. S. S. Bache		NRFK	U. S. C.G. Kickapoo	
			ND	U. S. S. Dallas		NRFL	U. S. C.G. Manhattan	
			ND	U. S. S. Relief		NRFM	U. S. C.G. Macscoutin	
			ND	U. S. S. Babbitt		NRFP	U. S. C.G. Pamlico	
			ND	U. S. S. Jason		NRFQ	U. S. C.G. Pequot	
			ND	U. S. S. Langley		NRFS	U. S. C.G. Shawnee	
			ND			NRFU	U. S. C.G. Snobsmith	

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
NRFV	U.S.C.G., Tamasoa.		NROJ	U.S.C.G., C.G. 176.		NRYM	U.S.C.G., C.G. 269.	
NRFW	U.S.C.G., Sauke.		NROK	U.S.C.G., C.G. 177.		NRYO	U.S.C.G., C.G. 270.	
NRGA	U.S.C.G., Aurora.		NROL	U.S.C.G., C.G. 178.		NRYP	U.S.C.G., C.G. 271.	
NRGB	U.S.C.G., Argo.		NROM	U.S.C.G., C.G. 179.		NRYQ	U.S.C.G., C.G. 272.	
NRGC	U.S.C.G., Calypso.		NROO	U.S.C.G., C.G. 180.		NRYS	U.S.C.G., C.G. 273.	
NRGD	U.S.C.G., Daphne.		NROP	U.S.C.G., C.G. 181.		NRYU	U.S.C.G., C.G. 274.	
NRGH	U.S.C.G., Herme.		NROQ	U.S.C.G., C.G. 182.		NRYV	U.S.C.G., C.G. 275.	
NRGJ	U.S.C.G., Icarus.		NROU	U.S.C.G., C.G. 183.		NRYW	U.S.C.G., C.G. 276.	
NRGP	U.S.C.G., Persue.		NROV	U.S.C.G., C.G. 184.		NRYX	U.S.C.G., C.G. 277.	
NRGS	U.S.C.G., Theta.		NROW	U.S.C.G., C.G. 185.		NRYY	U.S.C.G., C.G. 278.	
NRHA	U.S.C.G., C.G. 100.		NROX	U.S.C.G., C.G. 186.		NRYZ	U.S.C.G., C.G. 279.	
NRHB	U.S.C.G., C.G. 101.		NROY	U.S.C.G., C.G. 187.		NRZA	U.S.C.G., C.G. 280.	
NRHC	U.S.C.G., C.G. 102.		NROZ	U.S.C.G., C.G. 189.		NRZB	U.S.C.G., C.G. 281.	
NRHD	U.S.C.G., C.G. 103.		NRPA	U.S.C.G., Alert.		NRZC	U.S.C.G., C.G. 282.	
NRHF	U.S.C.G., C.G. 104.		NRPB	U.S.C.G., Bonham.		NRZD	U.S.C.G., C.G. 283.	
NRHG	U.S.C.G., C.G. 105.		NRPC	U.S.C.G., Ewing.		NRZF	U.S.C.G., C.G. 284.	
NRHH	U.S.C.G., C.G. 106.		NRPD	U.S.C.G., McLane.		NRZG	U.S.C.G., C.G. 285.	
NRHJ	U.S.C.G., C.G. 107.		NRPF	U.S.C.G., Morris.		NRZH	U.S.C.G., C.G. 286.	
NRHL	U.S.C.G., C.G. 109.		NRPG	U.S.C.G., Montgomery.		NRJZ	U.S.C.G., C.G. 287.	
NRHM	U.S.C.G., C.G. 110.		NRRA	U.S.C.G., C.G. 190.		NRZK	U.S.C.G., C.G. 288.	
NRHP	U.S.C.G., C.G. 112.		NRRB	U.S.C.G., C.G. 191.		NRZL	U.S.C.G., C.G. 289.	
NRHQ	U.S.C.G., C.G. 115.		NRRC	U.S.C.G., C.G. 192.		NRZM	U.S.C.G., C.G. 290.	
NRHR	U.S.C.G., C.G. 116.		NRRD	U.S.C.G., C.G. 193.		NRZO	U.S.C.G., C.G. 291.	
NRHS	U.S.C.G., C.G. 117.		NRNF	U.S.C.G., C.G. 194.		NRZP	U.S.C.G., C.G. 292.	
NRHU	U.S.C.G., C.G. 118.		NRNH	U.S.C.G., C.G. 196.		NRZQ	U.S.C.G., C.G. 293.	
NRHV	U.S.C.G., C.G. 119.		NRJJ	U.S.C.G., C.G. 197.		NRZT	U.S.C.G., C.G. 295.	
NRHW	U.S.C.G., C.G. 120.		NRJK	U.S.C.G., C.G. 198.		NRZU	U.S.C.G., C.G. 943.	
NRHX	U.S.C.G., C.G. 121.		NRRL	U.S.C.G., C.G. 199.		NRZV	U.S.C.G., C.G. 298.	
NRHY	U.S.C.G., C.G. 122.		NRRM	U.S.C.G., C.G. 200.		NRZW	U.S.C.G., C.G. 299.	33.82
NRHZ	U.S.C.G., C.G. 123.		NRNP	U.S.C.G., C.G. 202.		NRZX	U.S.C.G., C.G. 300.	
NRIA	U.S.C.G., C.G. 124.		NRNQ	U.S.C.G., C.G. 203.		NRZY	U.S.C.G., C.G. 301.	
NRIB	U.S.C.G., C.G. 125.		NRNS	U.S.C.G., C.G. 204.		NRZZ	U.S.C.G., C.G. 302.	
NRIC	U.S.C.G., C.G. 127.		NRNU	U.S.C.G., C.G. 205.		NSS	Annapolis, Md.	
NRID	U.S.C.G., C.G. 128.		NRNV	U.S.C.G., C.G. 206.		NUDG	U.S.S. Ranger.	
NRIF	U.S.C.G., C.G. 129.		NRNW	U.S.C.G., C.G. 207.		NUDN	U.S.S. Patoka.	
NRIG	U.S.C.G., C.G. 130.		NRNX	U.S.C.G., C.G. 208.		NUMM	U.S.S. Litchfield.	
NRIH	U.S.C.G., C.G. 131.		NRYY	U.S.C.G., C.G. 209.		NUQR	U.S.S. Pope.	
NRIJ	U.S.C.G., C.G. 132.		NRNZ	U.S.C.G., C.G. 210.		NUQS	U.S.S. Pillsbury.	
NRIK	U.S.C.G., C.G. 133.		NRUA	U.S.C.G., Champlain.		NUXB	U.S. Customs Patrol 538.	68.62
NRIL	U.S.C.G., C.G. 134.		NRUB	U.S.C.G., Chelan.		NUXC	U.S. Custom Patrol 522.	68.62
NRIM	U.S.C.G., C.G. 135.		NRUD	U.S.C.G., Mendota.		NVMAC	Aircraft on U.S.S. Texas.	
NRIO	U.S.C.C., C.G. 136.		NRUF	U.S.C.G., Tampa.		NVMAD	Aircraft on U.S.S. Cincinnati.	
NRIP	U.S.C.G., C.G. 137.		NRUG	U.S.C.G., Haida.		NVMAF	Aircraft on U.S.S. Jason.	
NRIQ	U.S.C.G., C.G. 138.		NRUI	U.S.C.G., Itasca.		NVMAG	Aircraft on U.S.S. Augusta.	
NRIR	U.S.C.G., C.G. 139.		NRUK	U.S.C.G., Saranac.		NVMAM	Aircraft on U.S.S. Louisville.	
NRIS	U.S.C.G., C.G. 140.		NRUL	U.S.C.G., Northland.		NVMAL	Aircraft on U.S.S. Houston.	
NRIU	U.S.C.G., C.G. 141.		NRUM	U.S.C.G., Mojave.		NVMAM	Aircraft on U.S.S. Cheater.	
NRIV	U.S.C.G., C.G. 142.		NRUP	U.S.C.G., Ponchartrain.		NVMAN	Aircraft on U.S.S. Northampton.	
NRIW	U.S.C.G., C.G. 143.		NRUQ	U.S.C.G., Modoc.		NVMAP	Aircraft on U.S.S. Salt Lake City.	
NRIX	U.S.C.G., C.G. 144.		NRUS	U.S.C.G., Seabago.		NVMAU	Aircraft on U.S.S. Pensacola.	
NRIY	U.S.C.G., C.G. 145.		NRUW	U.S.C.G., Cayuga.		NVMAW	Aircraft on U.S.S. Pennsylvania.	
NRIZ	U.S.C.G., C.G. 146.		NRVA	U.S.C.G., C.G. 211.		NVMAX	Aircraft attached to Macon.	
NRJA	U.S.C.G., C.G. 147.		NRVB	U.S.C.G., C.G. 212.		NVMBC	Aircraft on U.S.S. California.	
NRJC	U.S.C.G., C.G. 148.		NRVC	U.S.C.G., C.G. 213.		NVMBD	Aircraft on U.S.S. Indianapolis.	
NRJD	U.S.C.G., C.G. 150.		NRVD	U.S.C.G., C.G. 214.		NVMBF	Aircraft on U.S.S. Oklahoma.	
NRJF	U.S.C.G., C.G. 151.		NRVF	U.S.C.G., C.G. 215.		NVMCH	Aircraft on U.S.S. Idaho.	
NRJG	U.S.C.G., C.G. 152.		NRVG	U.S.C.G., C.G. 216.		NVMDB	Aircraft on U.S.S. Astoria.	
NRJH	U.S.C.G., C.G. 153.		NRVJ	U.S.C.G., C.G. 218.		NVMDC	Aircraft on U.S.S. Minneapolis.	
NRJJ	U.S.C.G., C.G. 154.		NRVK	U.S.C.G., C.G. 219.		NVMDF	Aircraft on U.S.S. Marblehead.	
NRJK	U.S.C.G., C.G. 155.		NRVL	U.S.C.G., C.G. 220.		NVMDJ	Aircraft on U.S.S. Maryland.	
NRJM	U.S.C.G., C.G. 157.		NRVM	U.S.C.G., C.G. 221.		NVMOK	Aircraft on U.S.S. Concord.	
NRJO	U.S.C.G., C.G. 158.		NRVO	U.S.C.G., C.G. 222.		NVMFA	Aircraft on U.S.S. Colorado.	
NRJP	U.S.C.G., C.G. 159.		NRVP	U.S.C.G., C.G. 223.		NVMFB	Aircraft on U.S.S. Portland.	
NRJQ	U.S.C.G., C.G. 160.		NRVQ	U.S.C.G., C.G. 224.		NVMFL	Aircraft on U.S.S. Memphis.	
NRJR	U.S.C.G., C.G. 161.		NRVS	U.S.C.G., C.G. 225.		NVMGA	Aircraft at First Naval Dist.	
NRJS	U.S.C.G., C.G. 162.		NRVU	U.S.C.G., C.G. 226.		NVMGB	Aircraft at Third Naval Dist.	
NRJU	U.S.C.G., C.G. 163.		NRVW	U.S.C.G., C.G. 228.		NVMGC	Aircraft at Fourth Naval Dist.	
NRJV	U.S.C.G., C.G. 164.		NRVX	U.S.C.G., C.G. 229.		NVMGD	Aircraft at Fifth Naval Dist.	
NRJW	U.S.C.G., C.G. 165.		NRVY	U.S.C.G., C.G. 231.		NVMGF	Aircraft at Sixth Naval Dist.	
NRJY	U.S.C.G., C.G. 167.		NRVZ	U.S.C.G., C.G. 232.		NVMGH	Aircraft at Seventh Naval Dist.	
NRJZ	U.S.C.G., C.G. 168.		NRWA	U.S.C.G., Corwin.		NVMGJ	Aircraft at Eighth Naval Dist.	
NRKA	U.S.C.G., Arcata.		NRWB	U.S.C.G., Naugatuck.		NVMGK	Aircraft at Ninth Naval Dist.	
NRKB	U.S.C.G., Cygan.		NRWC	U.S.C.G., Eagle.		NVMGL	Aircraft at Eleventh Naval Dist.	
NRKC	U.S.C.G., Cook.		NRWD	U.S.C.G., Dexter.		NVMGM	Aircraft at Twelfth Naval Dist.	
NRKD	U.S.C.G., A.B. 9.		NRWF	U.S.C.G., Forward.		NVMGN	Aircraft at Fifteenth Naval Dist.	
NRKG	U.S.C.G., Osprey.		NRWG	U.S.C.G., Gallatin.		NVMGP	Aircraft at Thirteenth Naval Dist.	
NRKK	U.S.C.G., Tingrad.		NRWJ	U.S.C.G., Mahoning.		NVMGQ	Aircraft at Fourteenth Naval Dist.	
NRKS	U.S.C.G., Smith.		NRWK	U.S.C.G., Nansemond.		NVMGR	Aircraft at Sixteenth Naval Dist.	
NRKW	U.S.C.G., C.G. 925.		NRWL	U.S.C.G., Patriot.		NVMGS	Aircraft at Guam Naval Dist.	
NRLA	U.S.C.G., Active.		NRWP	U.S.C.G., Perry.		NVMGT	Aircraft at Guantnamo.	
NRLB	U.S.C.G., Agassiz.		NRWS	U.S.C.G., Petrel.		NVMGY	Aircraft on U.S.S. Arizona.	
NRLC	U.S.C.G., Alctian.		NRWU	U.S.C.G., Wolcott.		NVMHB	Aircraft on U.S.S. Patoka.	
NRLD	U.S.C.G., Bontwell.		NRXA	U.S.C.G., C.G. 233.		NVMHC	Aircraft on U.S.S. Nevada.	
NRLF	U.S.C.G., Cartigan.		NRXB	U.S.C.G., C.G. 234.		NVMHD	Aircraft on U.S.S. Mississippi.	
NRLG	U.S.C.G., Cahoon.		NRXC	U.S.C.G., C.G. 235.		NVMHF	Aircraft on U.S.S. Ranger.	
NRLJ	U.S.C.G., Crawford.		NRXD	U.S.C.G., C.G. 236.		NVMJK	Aircraft on U.S.S. Arkansas.	
NRLK	U.S.C.G., Cuyahoga.		NRXF	U.S.C.G., C.G. 237.		NVMJA	Aircraft on U.S.S. Argonne.	
NRLM	U.S.C.G., Diligen.		NRXG	U.S.C.G., C.G. 240.		NVMKL	Aircraft on U.S.S. New York.	
NRLP	U.S.C.G., Dix.		NRXH	U.S.C.G., C.G. 241.		NVMKN	Aircraft on U.S.S. Wyoming.	
NRLQ	U.S.C.G., Faune.		NRXJ	U.S.C.G., C.G. 242.		NVMKS	Aircraft on U.S.S. Detroit.	
NRLR	U.S.C.G., Frederick Lee.		NRXK	U.S.C.G., C.G. 243.		NVMLD	Aircraft on U.S.S. Tennessee.	
NRLS	U.S.C.G., General Greene.		NRXL	U.S.C.G., C.G. 244.		NVMND	Aircraft on U.S.S. Wright.	
NRLU	U.S.C.G., Harriet Lane.		NRXM	U.S.C.G., C.G. 246.		NVMNP	Aircraft on U.S.S. Virginia.	
NRLV	U.S.C.G., Jackson.		NRXO	U.S.C.G., C.G. 247.		NVMQ	Aircraft on U.S.S. Lexington.	
NRLW	U.S.C.G., Kineball.		NRXP	U.S.C.G., C.G. 250.		NVMUF	Aircraft on U.S.S. Saratoga.	
NRLX	U.S.C.G., Legare.		NRXQ	U.S.C.G., C.G. 251.				
NRLY	U.S.C.G., Marion.		NRXS	U.S.C.G., C.G. 252.				
NRLZ	U.S.C.G., Nemaha.		NRXU	U.S.C.G., C.G. 253.				
NRMA	U.S.C.G., Pulaski.		NRXV	U.S.C.G., C.G. 254.				
NRMB	U.S.C.G., Reliance.		NRXW	U.S.C.G., C.G. 255.				
NRMC	U.S.C.G., Rush.		NRXX	U.S.C.G., C.G. 256.				
NRMD	U.S.C.G., Tiger.		NRXY	U.S.C.G., C.G. 257.				
NRMF	U.S.C.G., Travis.		NRXZ	U.S.C.G., C.G. 258.				
NRMG	U.S.C.G., Vigilant.		NRYA	U.S.C.G., C.G. 259.				
NRMJ	U.S.C.G., Woodbury.		NRYB	U.S.C.G., C.G. 260.				
NRMP	U.S.C.G., Yeaton.		NRYC	U.S.C.G., C.G. 261.				
NROA	U.S.C.G., C.G. 169.		NRYD	U.S.C.G., C.G. 262.				
NROB	U.S.C.G., C.G. 170.		NRYF	U.S.C.G., C.G. 263.				
NROC	U.S.C.G., C.G. 171.		NRYG	U.S.C.G., C.G. 264.				
NROD	U.S.C.G., C.G. 172.		NRYH	U.S.C.G., C.G. 265.				
NROF	U.S.C.G., C.G. 173.		NRYJ	U.S.C.G., C.G. 266.				
NROG	U.S.C.G., C.G. 174.		NRYK	U.S.C.G., C.G. 267.				
NROH	U.S.C.G., C.G. 175.		NRYL	U.S.C.G., C.G. 268.				

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
NVMVC	Aircraft on U.S.S. Raleigh.				96.61, 96.15, 54.35,	WEER	Aero Radio Co., Richmond, Va.	97.71, 97.5, 52.72
NVMVR	Aircraft on U.S.S. Utah.				54.1, 48.31, 47.47,	WEES	Cipango.	54.3
NVMVR	Aircraft on U.S.S. Sangley.				47.17, 36.23, 35.5,	WEET	Melodic.	
NVMWB	Aircraft on U.S.S. Milwaukee.				27.17.	WEW	Aero Radio, Inc., Carlstadt, N. J.	39.34, 38.27, 32.5, 31.98, 29.78
NVMWM	Aircraft on U.S.S. Medusa.			Dollar S.S., Pres. Johnson.	54.3, 54, 45.52, 36.01,	WEEW		
NVMXA	Aircraft on U.S.S. Trenton.				27.15, 26.71, 18.09,	WEEW	Aero Radio, Inc., Tinley Park, Ill.	39.34, 38.27, 32.5, 31.98, 29.78
NZNCT	U. S. Navy, ZMC 2.				18.007, 13.57	WEEW		
NZNJF	U. S. Navy, J 4.					WEEW		
NZNJT	U. S. Navy, J 3.			Dollar S.S., Pres. Filmore, Alaska S.S., Aleutian.	54.3, 35.50, 28.71, 54,	WEEY	Exambian.	54.3, 54, 38.01, 27.16,
NZNKO	U. S. Navy, Non-rigid Ship K1.				27.15	WEEZ	Olympic.	18.094, 18.007
NZRLLA	U. S. Navy, Los Angeles.			Texas Co., La., Miss., Tex.	176.06	WEFY	R. C. A., Rocky Point, N. Y.	31.31
NZRLLC	Airship, Macon.			T. R. T. Co., Hingham, Mass.	23.16	WEFZ	R. C. A., Rocky Point, N. Y.	40.45
WAA	R. C. A., Detroit, Mich.	96.61, 96.15, 72.46, 62.63, 54.35, 48.31, 47.39, 36.23, 35.01, 27.17, 28.775		Boston Pilot.	118.29	WEI	R. C. A., Norfolk, Va.	105.2
WAB	T. R. T. Co., Hialeah, Fla.	44.284		Ingomar.	54.3, 54, 54.43	WEJ	R. C. A., Rocky Point, N. Y.	44.51
WAC	R. C. A., New Brunswick, N.J.	31.68, 21.68		Tatooosh.	129.3, 117.2	WEK	R. C. A., Wichita, Kans.	33.6, 39, 50.51, 50.24
WAD	R. C. A., Rocky Point, N. Y.	33.69, 21.63		Glen Mayne Light.	54.3, 54, 39.19, 36.01	WEK	R. C. A., Rocky Point, N. Y.	33.32
WADK	Transp. Corp., Cabrillo.	109.5		Gloria Dalton	129.3	WEW	R. C. A., Rocky Point, N. Y.	40.54
WADT	Grace S.S., Santa Cecilia.			Fish Hawk.	123.55	WEM	A. C. A., New Brunswick, N.J.	40.58
		54.3, 38.19, 35.5, 27.15, 26.71, 22.66, 18.007		San Salvador.	54.3, 54, 38.19, 18.094	WEN	R. C. A., Rocky Point, N. Y.	43.11
WAE	R. C. A., New Brunswick, N.J.	43.17, 21.68		Ajax.	36.19, 35.5, 27.15,	WED	Cape Charles, Va.	39.89
WAEC	Aero Radio, Pittsburgh, Pa.	97.33		Bluefin.	28.71, 22.06	WEP	R. C. A., Rocky Point, N. Y.	44.70
WAED	Aero Radio, Harrisburgh, Pa.	97.33		Europa.	54.3, 54, 45.52, 36.01	WER	R. C. A., New Brunswick, N.J.	31.74
WAEE	Aero Radio, Camden, N. J.	97.33		Reliance.	54.3, 54, 36.19, 35.5,	WES	R. C. A., Rocky Point, N. Y.	31.87
WAEF	Aero Radio, Newark, N. J.	97.33		Ramah.	27.15, 27, 26.71,	WET	R. C. A., New Brunswick, N.J.	43.21
WAEG	Aero Radio, Cresson, Pa.	110.21, 109.72, 73.02, 47.18, 37.43, 24.63		129.3, 54, 38.19, 36.01	WEV	R. C. A., Rocky Point, N. Y.	22.38	
WAEH	Aero Radio, Inc., Milwaukee, Wis.	112.44, 112.28, 105.12, 99.83, 55.8		Argosy.	27.15, 27, 18.182,	WEX	Fire Dept., Boston, Mass.	192.55
WAEI	Aero Radio, Inc., Detroit, Mich.	111.10, 102.11, 51.5		18.007		WEY	R. C. A., Rocky Point, N. Y.	43.30
WAEJ	Aero Radio, Inc., Springfield, Ill.			36.19, 38.01, 35.5,	WEZ	Tropical Radio Co., New Orleans, La.	44.22	
WAEK	Aero Radio, Inc., Mobile, Ala.	129.53, 37.43		27.15, 27, 26.71,	WFC	Tropical Radio Co., New Orleans, La.	28.65	
WAEP	Aero Radio, Inc., U.S.A.	92.8, 53.20		22.68, 18.004, 18.007	WFDT	Missouri.	96.15, 71.09, 48.30, 48.23	
WAF	T. R. T. Co., Hialeah, Fla.	28.68				WFE	Tropical Radio Co., New Orleans, La.	23.18
WAG	M. R. T., Bar Harbor, Me.	71.49, 54.3, 34.6, 27.15		Saramma.	36.01, 35.5, 27.15,	WFEC	Elsie, Boy Scouts of Amer.	96.4, 54.03, 54, 38.10, 27.45, 22.88
WAJ	R. C. A., Rocky Point, N. Y.	22.25		27, 26.71, 22.66,	WFEF	Fishing Float.	129.3	
WAM	T. R. T. Co., Hialeah, Fla.	23.16		18.004, 18.007,	WFEG	Folly.	127.7	
WAN	T. R. T. Co., Hialeah, Fla.	70.42		17.704	WFKE	Panama.	54.3, 54, 38.01, 27.15, 18.007	
WAQ	Detroit Edison, Superior, Mich.	94		Hussar.	36.19, 38.01, 35.5,	WFEL	Sao Jose.	38.18, 18.004, 18.007
WAR	Westinghouse, Newark, N. J.	44.03		27.15, 27, 26.71,	WFEM	Santa Margarita.	38.19, 38.01, 35.5, 27.15, 22.68, 22.61	
WAR	U. S. A., Wash., D. C.	18.63, DR 270		22.68, 18.004	WFEN	Savanna II.	38.19, 38.01, 35.5, 27.15, 22.68, 22.61	
WAT	U. S. A., Wash., D. C.	74.65, 74.54, 70.50, 42.92, 37.31, 37.27, 35.25, 24.88, 24.84, 23.50		187.97	WFEP	Sequoia.	38.18, 18.004, 18.007	
WAU	T. R. T. Haileah, Fla.	96.61, 96.15, 72.46, 62.69, 48.31, 47.54, 36.28, 35.34, 27.17, 26.67		178.06	WFEQ	Ruth L.	12.18	
WAX						WFER	Tappawinga.	54.3, 38.19,
WAZ	R. C. A., New Brunswick, N.J.	20.107				WFES	Colombus.	54.3, 18.007
WBB	Texas Co., La., Miss., Tex.					WFEV	Mayflower.	54.3, 54, 38.01,
WBCD	New York City, Macon.	178.15				WFEW	Holiday.	27.15, 27, 26.71,
WBD	Texas Co., La., Miss., Tex.	176.06				WFEX	Little Viking.	22.68, 22.61
WBDP	All Amer. Cable, Guardian.	54.3, 54, 45.52, 45.42, 36.19, 35.5, 27.15, 27.				WFY	Mariposa, Lifeboat No. 1.	54.3, 54, 38.19, 36.01, 18.007
WBDR	Oceanic S.S.Co., Sierra.	38.19, 35.5, 28.71, 17.794, 13.575				WFZ	Mariposa, Lifeboat No. 2.	54.3, 54, 53.42, 38.01
WBDX	Research Co., Big Bill.	13.501, 13.567				WFG	T. R. T. Co., New Orleans, La.	127
WBE	Texas Co., La., Miss., Tex.	200, 175, 105				WFM	Geo. Exp. Co., 3rd Radio Zone.	14
WBE	Texas Co., La., Miss., Tex.	176.06				WFH	Geo. Exp. Co., 3rd Radio Zone.	14
WBEF	Yacht, Tempress.	54.3, 54, 35.50				WFJ	Geo. Exp. Co., 3rd Radio Zone.	178.06
WBK	Export S.S.Co., Exochorda.	54.3, 54, 45.52, 36.19, 35.50, 27.15, 27.15, 27.				WFL	T. R. T. Co., New Orleans, La.	23.18
WBK	W. K. Vanderbilt, Alva.	54.3, 54, 45.52, 45.42, 36.19, 35.5, 27.15, 27.				WFM	Geo. Exp. Co., 3rd Radio Zone No. 7.	23.18
WBEM	Invader.	54.3, 54, 38.19, 18.094, 18.007				WFN	Geo. Exp. Co., 3rd Radio Zone No. 8.	178.06
WBER	White Star.	54.3, 54, 38.01, 27.15, 27, 18.094, 18.007				WFO	T. R. T. Co., New Orleans, La.	23.18
WBET	Belle Isle.	54.3, 54, 38.01, 27.15, 27, 18.004				WFP	Geo. Exp. Co., 3rd Radio Zone No. 9.	178.06
WBHU	Fisherman II.	118.29				WFQ	Geo. Exp. Co., 3rd Radio Zone No. 13.	178.06
WBHZ	Liberty.					WFR	Geo. Exp. Co., 3rd Radio Zone No. 14.	178.06
WBHF	Tropical Radio, Hingham, Mass.					WFS	Geo. Exp. Co., 3rd Radio Zone No. 15.	178.06
WBG	Texas Co., La., Miss., Tex.	96.61, 96.15, 72.46, 62.69, 48.31, 46.95, 26.23, 24.15, 23.95, 18.116, 17.688, 13.587, 13.348				WFT	D. C., Spartanburg, S. C.	89.8, 89, 50.51, 50.63
WBH	Texas Co., La., Miss., Tex.	176.06				WFU	Tropical Radio Co., Mobile, Ala.	44.22
WBI	Penna. Light, Tuckerville, Pa.	176.06				WFV	Tropical Radio Co., Mobile, Ala.	28.05
WBK	Texas Co., La., Miss., Tex.	94				WFW	Tropical Radio Co., Mobile, Ala.	23.13
WBL	R. C. A., Buffalo, N. Y.	62.82, 54.3, 35.01				WFX	R. C. A., Rocky Point, N. Y.	15.806
WBM	Light Co., Detroit, Mich.	94				WFY	W. S. Co., 3rd Radio Zone.	176.06
WBN	Texas Co., La., Miss., Tex.	176.06				WFZ	W. S. Co., 3rd Radio Zone.	176.06
WBO	T. R. T. Co., Hingham, Mass.	44.264				WGA	Dollar Co., New York, N. Y.	40.38, 40.29, 31.88, 27.45, 20.19, 20.15, 15.94, 13.25
WBP	Doc, Key West, Fla.	89.6, 89, 50.51, 50.34				WGB	Geo. Research, 3rd Radio Zone.	
WBS	Texas Co., La., Miss., Tex.					WGDF	Garden City, N. Y.	
WBU	R. C. A., Rocky Point, N. Y.	14.11				WGJQ	Fining Co., Ansonia.	132.4, 53.57
WBX	Texas Co., La., Miss., Tex.	176.06				WGDL	Crosley Fisheries, Irene L.	132.4, 53.57, 56.40
WBY	T. R. T. Co., Hingham, Mass.	28.68				WGDR	California.	129.19, 109.56
WBZ	Weatinghouse, Springfield, Mass.	50				WGEB	Emma R. S.	72.3, 36.45
WCA	Texas Co., La., Miss., Tex.	176.06				WGEG	Southern Star.	129.19
WCB	Texas Co., La., Miss., Tex.	176.06				WGEG	White Spray.	128.8, 96.61, 96.3, 36.23, 36.01
WCC	R. C. A., Marion, Mass.	26.96, 26.74, 24.15, 23.725, 18.116, 17.751, 13.793, 13.587, 13.453,				WGEG	U. S. Lines, Amer. Importer.	36.19, 35.5, 27.15, 27, 22.66
						WGEG	Mariposa.	54.39, 18.007
						WGEG	Walle.	129.2, 127.7, 127.01, 109.57
						WGEG	Galaxy.	118.20
						WGEG	Gertrude S.	109.56
						WGEG	Cascadian.	194.8, 116.91, 109.56
						WGEG	Irene L.	

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	
WGK	R. M. C. A., Blue Ash, Ohio.	62.82, 54.20, 35.01	WKDM	U. S. S. B., Violet Ray.....	129.3	WNAAJ	Aero Radio, Angola, Ind.....	94.93	
WGO	R. C. A., Chicago, Ill.....	98.61, 98.15, 72.46	WKDS	Haida.....		WNAAK	Aero Radio, Litchfield, Ohio.....	94.9	
		62.63, 54.35, 48.31	WKDT	Fire Dept., Detroit, Mich.....	187.97	WNAM	Aero Radio, Bellefonte, Pa.....	94.9	
		47.89, 36.23, 36.01	WKDU	Police, Cincinnati, Ohio.....	175.23	WNAO	Aero Radio, Summit, N. J.....	94.9	
		27.17, 28.775	WKDX	Plant Dept., New York, N. Y.....	178.50	WNAU	Aero Radio, Moline, Ill.....	A1-2-3, 94.9, 94.75, 53.88,	
WGPA	Police, Seattle, Wash.....	124.17	WKE	M. R. T. Co., Sayville, N. Y.....	20.375			94.57, 94.38, 94.75, 53.88,	
WGT	R. C. A., San Juan, P. R.....	21.77	WKF	A. T. & T. Co., Lawrenceville, N. J.....	15.61	WNB	A. T. & T. Co., Lawrenceville, N. J.....	44.41, 28.44	
WGU	R. C. A., San Juan, P. R.....	44.65	WKH	M. R. T. Co., Sayville, N. Y.....	20.335	WNBD	Cressida.....	54.3, 36.19, 36.01, 35.5, 27.15, 26.71,	
WGW	Vieques, Porto Rico.....	52, 188.44, 188.3,	WKI	Sayville, N. Y.....		WNBG	S. S. Thorpe.....	22.66, 96.15, 71.94, 48.30, 48.23	
WHD	N. Y. Times, New York City.....	63.14, 45.84, 36.36,				WNBN	Katherine.....	129.3	
		26.64, 18.18				WNBT	Panama Line.....	33.5	
WHDQ	Ulua.....	115.96				WNCS	S. S. Santa Isabele.....	36.19, 35.5, 27.15, 26.71, 22.66, 18.09,	
WHDS	Rideout Co., Penguin.....	36.45, 35.01				WNCW	Panama Mail, Santa Oliva.....	54.3, 36.19, 35.5, 27.15, 26.71, 22.66, 18.09, 18.007	
WHDX	Helena.....	128.10, 109.56	WKJ	R. C. A., Rocky Point N. Y.....	14.01				
WHED	Denali.....	129.19, 109.37	WKK	A. T. & T. Co., Lawrenceville, N. J.....	33.55	WNE	Light Co., Beadenton, Fla.....	94	
WHEE	Folly II.....	129.3, 127.7, 127.01,	WKL	R. C. A., Rocky Point, N. Y.....	15.907	WFN	Light Co., Lakeland, Fla.....	94	
WHEG	Paladini.....	169.57	WKM	R. C. A., Rocky Point, N. Y.....		WNG	Light Co., West Palm Beach, Fla.....	94	
WHEH	Paladini.....	129.10, 109.56	WKN	A. T. & T. Co., Lawrenceville, N. J.....	15.138	WNH	Light Co., Miami, Fla.....	94	
WHEJ	A. E. Williams.....	129.3, 127.7, 127.01,		R. C. A., Rocky Point, N. Y.....		WNI	D. of C., Moline, Ill.....	89.6, 89, 50.51, 63.34	
		109.57		R. C. A., Rocky Point, N. Y.....	18.78	WNM	D. of C., Moline, Ill.....	89.6, 89, 50.51, 63.34	
WHEK	Baracuda.....		WKO	R. C. A., Rocky Point, N. Y.....	43.16	WNN	Light Co., Lake City, Fla.....	86.61, 96.15, 72.48, 62.69, 48.31, 47.77,	
WHEL	T. G. Condare.....	129.19, 109.56	WKP	R. C. A., New Brunswick, N.J.....	18.75		Tropical Radio, Mobile, Ala.....	27.17, 28.63, 18.116, 1.7688, 1.3587, 13.333	
WHEP	F. C. Deneby.....	129.19	WKR	M. R. T. Co., Sayville, N. Y.....	17.503				
WHG	Aero Radio, Inc., Columbus, Ohio.....	97.33, 86.5, 64.44,	WKS	M. R. T. Co., Sayville, N. Y.....	16.988	WNP	Light Co., Palatka, Fla.....	94	
		47.13, 37.43, 24.83	WKT	M. R. T. Co., Sayville, N. Y.....	16.949	WNQ	Light Co., Fort Lauderdale, Fla.....	94	
WHM	Aero Radio, Indianapolis, Ind.....	97.33, 86.5, 64.44,	WLU	R. C. A., Rocky Point, N. Y.....	20.22	WNR	D. of C., Richmond, Va.....	89.8, 89, 60.65, 60.51	
		47.13, 37.43, 24.83	WLV	M. R. T. Co., Sayville, N. Y.....	33.37	WNS	Light Co., Punta Gorda, Fla.....	94	
WHR	R. C. A., Rocky Point, N. Y.....	22.35	WLIA	R. C. A., Rocky Point, N. Y.....	19.423	WNT	Light Co., Sanford, Fla.....	94	
WHV	Light Co., Newark, N. J.....	94.9, 94.8, 94.6, 94.4,	WLJ	A. T. & T. Co., Lawrenceville, N. J.....	16.358	WNU	Tropical Radio, New Orleans, La.....	95.61, 96.15, 72.46, 62.69, 48.31, 47.77, 1.7688, 1.3587, 13.333	
		94.2, 92.65, 92.5		Roger City, Mich.....	72.9, 24.76	WNV	Light Co., St. Augustine, Fla.....	94	
WHZ	D. of C., Atlanta, Ga.....	88.8, 89, 60.63, 60.51	WLQ	City of Newport News.....		WNW	Philadelphia, Pa.....	72.88, 13.538	
WIB	M. R. T. Co., Sayville, N. Y.....	44.02	WLR	U. S. Army, Boston, Mass.....	42.92	WNX	Light Co., Daytona Beach, Fla.....	94	
WIC	M. R. T. Co., Sayville, N. Y.....	39.11	WLF	Wilsonsburg, Pa.....	136.8		Brooklyn, N. Y.....	71.63	
WID	M. R. T. Co., Sayville, N. Y.....	38.81	WLG	Bypro, Kentucky.....		WNY	Light Co., Fort Pierce, Fla.....	94	
WIDE	Booth Fisheries, Kiska.....	129.3	WLH	U. S. Army, Columbus, Ohio.....	42.92	WNZ	A. T. & T. Co., Lawrenceville, N. J.....	44.41	
WIDH	Yacht Buccaneer, Great Lakes.....	87.3, 72.32	WLI	Cleveland, Ohio.....		WOA	A. T. & T. Co., Lawrenceville, N. J.....	44.41	
WIDI	Mikimiki.....	115.56	WLIA	Santa Teresa, U. S. A.....		WOB	Inland Waterway, Genl. Ashburn, Md.....	37.22	
WIDJ	Tempress, Hawaii.....	54.3, 36.19, 27.15, 22.66, 18.09, 17.79	WLJ	U. S. Army, San Antonio, Tex.....	42.92	WOBL	C. C. Webber.....	86.15, 71.94, 48.30, 48.23	
WIDK	Beryl E.....	129.3	WLK	A. T. & T. Co., Lawrenceville, N. J.....	18.44	WOBM	Iolanda.....	72.3	
WIDL	Alaska Salmon Co., Leonine.....	129.3	WLL	R. C. A., Rocky Point, N. Y.....	16.78	WOPB	Nippekonto.....	109.3	
WIDM	Alaska Salmon Co., Sally S.....	129.3	WLM	U. S. Army, Wash., D. C.....	42.92	WOBV	Mimi.....	35.5, 27.15, 28.71, 23.06, 17.705	
WIDQ	Packing Co., Rudolf N.....	129.3	WLW	U. S. Army, Governor, Is.....	42.82	WOBZ	Antares.....	94	
WIDR	Packing Co., Hazel Robb.....	129.3		New York City.....		WODK	A. T. & T. Co., Lawrenceville, N. J.....	30.77	
WIDS	Packing Co., Barron F.....	129.3	WLP	Light Co., Minneapolis, Minn.....	94		A. T. & T. Co., Bradley, Me.....	85.6 to 86.55	
WIDT	Packing Corp., Sacco.....	129.3		U. S. Army, Ft. Howard, Md.....	42.92		A. T. & T. Co., Lawrenceville, N. J.....	28.44	
WIE	M. R. T. Co., Sayville, N. Y.....	38.74	WLQ	U. S. Army, Atlanta, Ga.....	42.92		A. T. & T. Co., Lawrenceville, N. J.....	30.4	
WIEA	Manhattan.....		WLW	U. S. Army, Chicago, Ill.....	42.92		WOB	Trans-Atlantic Phone Channel with ship	96.03, 72.88, 48.08, 34.76
WIEP	Gertrude Fauci.....		WLX	U. S. Army, Omaha, Neb.....	42.92		R. C. A., Rocky Point, N. Y.....	21.58	
WIF	M. R. T. Co., Sayville, N. Y.....	38.7	WLY	U. S. Army, San Francisco, Cal.....	42.92		N. E. T. & T. Co., Marshfield, Mass.....	115.8	
WIG	M. R. T. Co., Sayville, N. Y.....	38.68	WMA	U. S. Army, Zamboanga, P. I.....	22.4		N. Y. Tel. Co., New York, N. Y.....	179.43	
WIH	M. R. T. Co., Sayville, N. Y.....	37.15		Happy Days.....	18.084		Comm. Radio Telephone ship to shore, N. Y. C.....	87.68	
WII	M. R. T. Co., Sayville, N. Y.....	33.44	WMBN'	G. H. Phelps, Skagway.....	109, 24.78		A. T. & T., New York, N. Y.....	87.68	
WIJ	M. R. T. Co., Sayville, N. Y.....	21.53	WMBT	Matson Navig. Co., Matolo.....	54.3, 54, 38.19, 35.50, 27.15, 26.71, 22.66, 16.10		Telephone Channel	96.03, 72.88, 48.08, 34.76	
WIK	R. C. A., Chatham, Mass.....	74.3	WMC	Amer. Line, California.....	54.3, 36.19, 36.01, 35.05, 27.15, 26.71, 22.66	WOF	R. C. A., Port Arthur, Texas.....	54.3, 48.47, 35.84, 25.75, 23.68, 18.09, 13.74, 13.57	
WIM	M. R. T. Co., Sayville, N. Y.....	74.3		WMD	M. R. T. Co., Sayville, N. Y.....	15.974	WOW	General Call for all P. A. A. Ships.....	94
WIN	M. R. T. Co., Sayville, N. Y.....	33.41	WMDW	Santa Clara.....	54.3, 38.19, 35.50, 27.15, 26.71, 22.66, 18.094, 18.007	WOZ	Interlakes Co., Chas. M. Schwab.....	54.3, 54, 53.42, 36.01	
WIO	M. R. T. Co., Sayville, N. Y.....	33.08	WMDC	Olive K.....	54.3, 34, 36.01	WPAN	Pat Dokeny.....	118.89, 117.2, 118.18	
WIQ	M. R. T. Co., Sayville, N. Y.....	70.15		Jeanne.....	54.3, 34, 63.42	WPBD	David P. Fleming.....	100	
WIR	R. C. A., Rocky Point, N. Y.....	32.29	WMDI	Skasta.....	54.3, 34, 36.01	WPBQ	C. R. Runyon, Jr., Osprey III	54.3, 54, 53.42, 36.01	
WIT	M. R. T. Co., Sayville, N. Y.....	22.56	WMDJ	Amer. Lines, Pennsylvania.....	54.3, 34, 36.19, 35.50, 27.15, 26.71, 22.66, 18.094, 18.007	WPBS	Santa Maria.....	100	
WIU	M. R. T. Co., Sayville, N. Y.....	20.06	WMDQ	Pan Am. Air., San Juan, P. R.....	56.09, 37.43, 112.69, 97.71, 52.72, 24.57, 47.24	WPBT	Beth. Ship Hdg., Quincy, Mass.....	54.3, 54, 53.42, 36.01	
WIV	M. R. T. Co., Sayville, N. Y.....	27.75	WMDS	Pan Am. Air., San Juan, P. R.....	56.09, 37.43, 112.69, 97.71, 52.72, 24.57, 47.24	WPBV	Tampa, Fla.....	100	
WIX	M. R. T. Co., Sayville, N. Y.....	21.62		WMDU	Pan Am. Air., San Juan, P. R.....	56.09, 37.43, 112.69, 97.71, 52.72, 24.57, 47.24	WPC	Police, Cleveland, Ohio.....	124.27
WIY	R. C. A., New Brunswick, N. J.....	42.07		Santa Monica.....	56.09, 37.43, 112.69, 97.71, 52.72, 24.57, 47.24	WPDA	Police, Chicago, Ill.....	175.23	
WIZ	Press Wireless, Chicago, Ill.....	30.75, 18.85	WMDV	Police, Indianapolis, Ind.....	15.253	WPDB	Police, Chicago, Ill.....	175.23	
WJA	Press Wireless, Chicago, Ill.....	38.58, 18.18		M. R. T. Co., Sayville, N. Y.....	16.337	WPDC	Police, Chicago, Ill.....	175.23	
WJC	Press Wireless, New York City.....	37.01	WMDW	A. T. & T. Co., Lawrenceville, N. J.....	20.73	WPDE	Police, Louisville, Ky.....	122.85	
WJD	Intl. News, New York City.....	37.70		WMF	Police, Buffalo, N. Y.....	15.322	WPDF	Police, Flint, Mich.....	122.85
WJDE	Inland Water, Dwight Davis.....	87.7, 45.62	WMDY	M. R. T. Co., Sayville, N. Y.....	44.92, 14.03	WPDH	Police, Youngstown, Ohio.....	124.17	
WJDF	Migrant.....	36.19, 36.01, 35.6, 22.66, 18.097, 17.794	WMDZ	M. R. T. Co., Sayville, N. Y.....	15.291	WPDI	Police, Richmond, Ind.....	122.85	
WJDM	Sartartia.....	54.3, 34, 36.19, 27.15, 27	WMDW	A. T. & T. Co., Lawrenceville, N. J.....	20.73	WPDK	County Comm., Columbus, Ohio.....	123.45	
WJDS	Boy Scouts, Ballantrae.....	169.3, 87.7		WMF	Police, Indianopolis, Ind.....	122.85	WPDL	Police, Milwaukee, Wis.....	122.44
WJE	M. R. T. Co., Sayville, N. Y.....	27.7	WMDY	M. R. T. Co., Sayville, N. Y.....	15.291	WPDM	City of Lansing, Mich.....	122.85	
WJEC	Harvard Seismograph Sta.....	187.27, 184.28, 181.8		WMG	Southern Radio, Linden, N. J.....	14.778		Police, Dayton, Ohio.....	124.17
WJEE	Harvard Seismograph Sta.....	187.27, 184.28, 181.8	WMDY	Southern Radio Corp., Linden, N. J.....	38.58, 15.16				
WJF	Portable on Brown Chain Press Wireless, New Orleans, La.....	39.35		WMF	Linden, N. J.....	15.167			
WJG	Press Wireless, Philadelphia, Pa.....		WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217				
WJH	M. R. T. Co., Sayville, N. Y.....	40.79		WMG	M. R. T. Co., Sayville, N. Y.....	14.217			
WJIO	City of Norfolk.....	23.05	WMDY	M. R. T. Co., Sayville, N. Y.....	14.217				
WJJ	M. R. T. Co., Sayville, N. Y.....	54.3, 13.5		WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217			
WJK	Press Wireless, Newton, Mass.....	23.02		WMF	M. R. T. Co., Sayville, N. Y.....	14.217			
WJM	Press Wireless, Wash., D. C.....	40.79, 19.03	WMDY	M. R. T. Co., Sayville, N. Y.....	14.217				
WJO	Press Wireless, Little Neck, N. Y.....	33.27		WMG	M. R. T. Co., Sayville, N. Y.....	14.217			
WJP	Press Wireless, Little Neck, N. Y.....	37.85	WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217				
WJQ	Press Wireless, Little Neck, N. Y.....	30.29, 19.145		WMF	M. R. T. Co., Sayville, N. Y.....	14.217			
WJS	Press Wireless, Little Neck, N. Y.....	38.22, 18.10	WMDY	M. R. T. Co., Sayville, N. Y.....	14.217				
WJT	R. C. A., San Juan, P. R.....	65.3, 70.15		WMG	M. R. T. Co., Sayville, N. Y.....	14.217			
WJU	Press Wireless, Little Neck, N. Y.....	40.87	WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217				
WJV	M. R. T. Co., Sayville, N. Y.....	21.49		WMF	M. R. T. Co., Sayville, N. Y.....	14.217			
WJX	M. R. T. Co., Sayville, N. Y.....	20.44	WMDY	M. R. T. Co., Sayville, N. Y.....	14.217				
WKA	A. T. & T. Co., Lawrenceville, N. J.....	14.245		WMG	M. R. T. Co., Sayville, N. Y.....	14.217			
WKB	M. R. T. Co., Sayville, N. Y.....	20.415	WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217				
WKC	R. C. A., Rocky Point, N. Y.....	22.28		WMF	M. R. T. Co., Sayville, N. Y.....	14.217			
WKD	R. C. A., Rocky Point, N. Y.....	22.33	WMDY	M. R. T. Co., Sayville, N. Y.....	14.217				
WKDL	P. A. A., Miami, Fla.....	97.71, 52.72, 24.57, 1 3 0 3 2, 9 7 5.2, 72.74, 46.91, 37.43, 47.24	WMDZ	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMF	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMG	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMF	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMG	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMF	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMG	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMF	M. R. T. Co., Sayville, N. Y.....	14.217				
			WMG	M. R. T. Co., Sayville, N. Y.....	14.217				

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
WPDN	City of Auburn, N. Y.	175.23	WRDB	Press Wireless, Wash., D. C.	63.28, 60.54, 58.70, 58.02	WSDP	Aero Radio, Inc., Columbus, Ohio	11-2-3, 128.97, 127.98, 92.64, 92.47, 86.9, 86.7, 86.5, 86.1, 72.40, 63.57, 56.29, 47.82, 47.8
WPDO	Police, Akron, Ohio	122.05	WRDC	Press Wireless, Chicago, Ill.	63.35, 60.91, 60.42, 60.05, 58.55			
WPDP	Police, Philadelphia, Pa.	121.5	WRDD	Press Wireless, Atlanta, Ga.	60.66			
WPDR	City of Rochester, N. Y.	122.05	WRDE	Press Wireless, Cleveland, O.	60.06			
WPDS	Police, St. Paul, Minn.	124.17	WRDF	Press Wireless, Memphis, Tenn.	60.54	WSDQ	Aero Radio, Inc., Cleveland, Ohio	11-2-3, 129.53, 127.33, 92.8, 92.52, 92.09, 87.02, 88.77, 88.52, 88.08, 72.9, 61, 53.55, 53.45, 53.28, 45.87, 45.73, 37.43
WPDU	Police, Kokomo, Ind.	121.5	WRDG	Press Wireless, Detroit, Mich.	63.43			
WPDV	Police, Pittsburgh, Pa.	175.23	WRDH	Press Wireless, Miami, Fla.	60.30			
WPDX	Police, Charlotte, N. C.	122.05	WRDI	Press Wireless, Phila., Pa.	63.22			
WPDX	Police, Detroit, Mich.	124.05	WRDJ	Press Wireless, Newtown Falls, Mass.	63.63, 58.12			
WPDX	Police, Atlanta, Ga.	124.27	WRDK	Press Wireless, Little Neck, N. Y.	63.49, 60.79, 60.18, 58.23	WSDR	Aero Radio, Inc., Madison, Wis.	112.44, 112.28, 105.12, 99.83, 55.8
WPDX	Police, Fort Wayne, Ind.	121.05	WRDL	Press Wireless, New Orleans, La.	58.65			
WPE	R. C. A., Rocky Point, N. Y.	21.67	WRDM	P. A. A., Wash., D. C.	112.69, 97.71, 52.72	WSDS	Aero Radio, Inc., Chicago, Ill.	112.44, 112.28, 105.12, 99.83, 55.8
WPEA	Police, Syracuse, N. Y.	175.23	WRDQ	Police, Toledo, Ohio	121.5			
WPEB	Police, Grand Rapids, Mich.	122.85	WRDQ	Police, Grosse Pt., Mich.	124.27	WSDZ	Aero Radio, Inc., Indianapolis, Ind.	72.9, 61, 65.55, 63.45, 54.28, 45.87, 45.8, 45.73, 37.43, 125.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 88.77, 86.52, 86.08
WPEC	Police, Memphis, Tenn.	121.05	WRDQ	State Police, Ingham, Mich.	190.6			
WPEE	Police, New York, N. Y.	122.4	WRDQ	Fire Dept., Brooklyn, N. Y.	187.9			
WPEF	Police, New York, N. Y.	122.4	WRDQ	Kilna	54.3, 54, 36.19, 27.15, 28.71, 18.84, 17.794			
WPEG	Police, Somerville, Mass.	175.23	WRDQ	Grampus	54.3, 54, 45.42			
WPEH	Police, Providence, R. I.	175.23	WRDQ	Police, Cleveland, Ohio	122.34			
WPEI	Police, Brookline, Mass.	175.23	WRDQ	Amer. Radio News, Carlstadt, N. J.	46.51, 35.89, 26.42, 17.843, 13.483	WSG	D. of C., La Crosse, Wis.	89.35, 50.51, 50.42
WPEJ	Police, New Orleans, La.	123.5	WRDQ	P. A. A., Calais, Me.	88	WSL	M. R. T. Co., Sayville, N. Y.	96.81, 94.15, 54.35, 54, 48.31, 47.85,
WPEL	Police, Middleboro, Mass.	100.6	WRDQ	R. C. A., Duluth, Minn.	112.7, 97.71, 72.04, 62.72, 47.58, 47.43	WSP	D. of C., Atlantic Coast	150, 133
WPEM	Police, Woonsocket, R. I.	123	WRDQ	96.81, 96.15, 72.46, 62.63, 54.36, 48.31	WSQ	D. of C., Atlantic Coast	150, 133	
WPEQ	Police, Baton Rouge, La.	100.6	WRDQ	47.39, 38.23, 35.01, 27.17, 28.775	WSR	D. of C., Atlantic Coast	150, 133	
WPEP	Police, Saginaw, Mich.	122.85	WRDQ	WST	D. of C., Dry Tortugas L. H., Fla.	88		
WPEP	Police, Lexington, Ky.	175.23	WRDQ	Pinecrest, Fla.	187.97	WSP	D. of C., Atlantic Coast	150, 133
WPEW	Police, Northampton, Mass.	100.6	WRDQ	Fire Dept., New York, N. Y.	89.8, 89, 50.51, 50.63	WSQ	D. of C., Atlantic Coast	150, 133
WPEW	Police, Framingham, Mass.	100.6	WRDQ	D. of C., Greensboro, N. C.	54.3, 54, 36.19	WTA	D. of C., Atlantic Coast	150, 133
WPGW	Police, Wash., D. C.	124.05	WRDQ	Gladys II	129.3	WTD	D. of C., Dry Tortugas L. H., Fla.	88
WPH	Williamsport, Pa.	94	WRDQ	Nakum	95.9, 71.8, 33.98, 22.71, 17.007	WTC	U. S. Army, Marshfield, Cal.	67.42, 33.75, 22.5
WPI	Inland Waters, Memphis, Tenn.	87.7, 46.95	WRDQ	U. S. Lines, Leviathan	54.3, 54, 36.19, 35.5, 24.15, 24.01, 18.16, 1.7.92.1, 1.3.6.6.7, 13.587	WTDK	Harbor Trader	88.62
WPL	Light Co., St. Croix Falls, Wis.	91.	WRDQ	WSP	U. S. Customs Patrol No. 522	88.92		
WPM	Birmingham, Ala.	37.7, 46.05	WRDQ	WTDL	U. S. Customs Patrol No. 538	88.92		
WPN	Globe Wireless, Garden City, N. Y.	100.6	WRDQ	Panama Pacific, Virginia	54.3, 36.19, 36.01, 35.6, 27.15, 26.71	WTDG	Nantucket	88
WPP	Mobile, Ala.	87.7, 46.05	WRDQ	96.81, 96.15, 54.35, 22.68	WTEF	Kittiwake	67, 54	
WPV	Light Co., Marysville, Mich.	94	WRDQ	Amida	47.05, 48.31, 47.32	WTEJ	D. of C., Gilbert	72.55, 36.28
WQA	R. C. A., Rocky Point, N. Y.	14.13	WRDQ	27.15, 27, 28.71	WTER	D. of C., Lydonia	72.55, 36.28	
WQB	R. C. A., Rocky Point, N. Y.	16.72	WRDQ	22.68	WTF	Pathfinder, U. S. A.	45.25, 37.97	
WQBD	Seydeln	56.56, 34.78	WRDQ	29.775, 24.15	WTI	Firesone, Akron, Ohio	38.58, 15.16.17	
WQBG	Lambert	54.3, 54, 36.19, 27.15, 27	WRDQ	23.07, 22.99, 18.17.10, 17.794, 13.825	WTJ	U. S. A., Vancouver, Wash.	74.44, 37.22	
WQBK	Trans. Co., Capt. Williams	109.5	WRDQ	13.699, 13.587	WTO	Port Shafter, Hawaii, T. II.	73.53, 38.76, 24.51, 18.38, 14.68	
WQBS	Trans. Co., Louise Black	109	WRDQ	Aero Radio, Jackson, Miss.	38.10, 56.29	WTP	Fort Kamehameha, Honolulu, T. II.	18.38
WQBX	Seattle Fire Dept., Alki	187.97	WRDQ	Newark, N. J.	86.10, 53.57	WTS	Port Ruger, Hawaii, T. II.	18.38
WQC	R. C. A., Rocky Point, N. Y.	16.79	WRDQ	Boston, Mass.	92.64, 53.57	WTT	U. S. A., Denver, Colo.	73.36, 36.87
WQCA	Caracas	46.88, 36.06, 23.73	WRDQ	Aero Radio, Birmingham, Ala.	38.10, 53.29	WTW	R. C. A., Rocky Point, N. Y.	15.83
WQCP	Koichak	54.3, 54, 36.52, 45.42, 36.19, 35.50, 27.15, 27, 23.06, 18.007	WRDQ	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	WTZ	For Monmouth, N. J.	42.92
WQCT	Union Line, Frieda	54.3, 54, 36.19, 27.15, 27	WRDQ	92.8, 92.62, 92.09, 87.02, 86.87, 86.52	WUAC	For McKinley, P. I.	69.7, 34.84	
WQCV	Avalon	109.5	WRDQ	92.8, 92.62, 92.09, 87.02, 86.87, 86.52	WUAF	For Sill, Okla.	73.35, 36.87	
WQCY	W. W. Minnesota	87.7, 46.05	WRDQ	86.08, 86.77, 86.52	WUAG	U. S. A. T., Meigs	18.38	
WQD	R. C. A., Rocky Point, N. Y.	15.82	WRDQ	86.08, 72.9, 61	WUAI	U. S. A. T., St. Michael	18.38	
WQDB	Flow	129.19, 127, 108.56	WRDQ	53.55, 53.45, 53.28	WUAD	U. S. A. T., Chateau Thierry	70.50, 35.25, 23.50	
WQDC	J. P. Morgan, Corsair	38.19, 35.50, 27.15, 26.71, 22.66	WRDQ	45.87, 46.8, 45.73	WUAF	U. S. A. T., Republic	70.51, 35.25, 23.5, 17.828	
WQDF	Aero Radio, Inc., Atlanta, Ga.	86.10, 53.57	WRDQ	37.43	WUAG	U. S. A. T., Grant	70.5, 35.25, 23.5, 17.82	
WQDO	Gifford II	54.3, 54, 36.19, 27.15, 27	WRDQ	Aero Radio, Inc., Chicago, Ill.	129.53, 127.33, 93.09, 92.8, 92.62, 92.09, 87.02, 86.77, 86.52	WUB	U. S. A. T., Merritt	70.50, 35.25, 23.50
WQDP	Aero Radio, Inc., Atlanta, Ga.	72.9, 61, 53.55, 53.45, 53.26, 46.87, 46.8, 46.73, 37.43, 29.53, 127.33, 93.09, 92.8, 92.52, 92.09, 87.02, 86.77, 86.52, 80.08	WRDQ	86.08, 72.9, 61	WUAI	U. S. A. T., Thomas	70.51, 35.25, 23.5, 17.828	
WQDQ	Aero Radio, Inc., New Orleans, La.	128.97, 127.98, 72.46, 47.92, 47.80	WRDQ	53.55, 53.45, 53.28	WUAD	U. S. A. T., Dellwood	70.50, 35.25, 23.50	
WQDR	Rene	38.19, 35.5, 27.15, 27, 26.71, 22.66	WRDQ	45.87, 46.8, 45.73	WUAF	U. S. A. T., Ludington	70.51, 35.25, 23.5, 17.828	
WQDZ	J. P. Morgan, Corsair	38.19, 35.50, 27.15, 26.71, 22.66	WRDQ	37.43	WUAM	U. S. A. T., Republic	70.51, 35.25, 23.5, 17.828	
WQE	R. C. A., Rocky Point, N. Y.	18.85	WRDQ	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	WUB	Fort Hancock, Sandy Hook, N. J.	70.50, 35.25, 23.50
WQF	R. C. A., Rocky Point, N. Y.	16.74	WRDQ	47.8	WUC	Port Wright, N. Y.	70.51, 35.25, 23.5, 17.828	
WQG	R. C. A., Rocky Point, N. Y.	19.94	WRDQ	Aero Radio, Inc., Cincinnati, Ohio	129.53, 127.33, 93.09, 92.8, 92.62, 92.09, 87.02, 86.77, 86.52	WUG	Aero Radio Inc., Chicago, Ill.	94.57, 94.39, 93.88, 53
WQH	R. C. A., Rocky Point, N. Y.	15.89	WRDQ	86.08, 72.9, 61	WUQ	Port George, Wright, Wash.	74.44, 37.22	
WQI	R. C. A., Rocky Point, N. Y.	16.77	WRDQ	53.55, 53.45, 53.28	WUW	U. S. A., Camp Maria, Tex.	73.35, 36.87	
WQJ	R. C. A., Rocky Point, N. Y.	14.12	WRDQ	45.8, 45.73, 37.43	WUQ	Port McIntosh, Texas	73.35, 36.87	
WOK	R. C. A., Rocky Point, N. Y.	16.46	WRDQ	12.9.5.3, 12.7.3.3	WUI	Port Riley, Kansas	67.72, 33.86	
WQL	R. C. A., Rocky Point, N. Y.	20.25	WRDQ	92.8, 92.52, 92.09	WUJ	Port Lewis, Wash.	74.44, 37.22	
WQN	R. C. A., Rocky Point, I. I.	57, 54, 50.45, 51.05	WRDQ	87.02, 86.77, 86.52	WUL	Port Totten, N. Y.	74.44, 37.22	
WQO	R. C. A., Rocky Point, N. Y.	44.61	WRDQ	86.08, 72.9	WUM	Tuscon, Ariz.	73.35, 67.42, 36.67, 33.75, 22.5	
WQP	R. C. A., Rocky Point, N. Y.	21.58	WRDQ	128.97, 127.98, 92.8, 92.47, 86.9, 86.7	WUN	Aberdeen Prov., Grda, Md.	73.35, 67.42, 36.67	
WQQ	R. C. A., Rocky Point, N. Y.	14.8	WRDQ	86.5, 86.1, 72.40	WUO	Port Benning, Ga.	73.35, 67.42, 36.67	
WQR	R. C. A., Rocky Point, N. Y.	18.73	WRDQ	53.57, 53.45, 53.28	WUP	Port Mills, P. I.	73.35, 67.42, 36.67	
WQS	R. C. A., Rocky Point, N. Y.	21.55	WRDQ	45.8, 45.73, 37.43	WUQ	Yuma, Ariz.	73.35, 67.42, 36.67	
WOT	R. C. A., New Brunswick, N.J.	21.60	WRDQ	92.8, 92.52, 92.09	WUR	Port McClellan, Ala.	73.35, 67.42, 36.67	
WOU	R. C. A., Rocky Point, N. Y.	21.85	WRDQ	87.02, 86.77, 86.52	WUS	Port Oglethorpe, Ga.	73.35, 67.42, 36.67	
WQV	R. C. A., Rocky Point, N. Y.	20.27	WRDQ	86.08, 72.9	WUT	Port Story, Va.	73.35, 67.42, 36.67	
WQW	R. C. A., Rocky Point, N. Y.	14.08	WRDQ	128.97, 127.98, 92.8, 92.47, 86.9, 86.7	WUU	Port Adams, R. I.	73.35, 67.42, 36.67	
WQX	R. C. A., Rocky Point, N. Y.	14.86	WRDQ	86.5, 86.1, 72.40	WUV	Port Thomas, Ky.	73.35, 67.42, 36.67	
WQY	R. C. A., Rocky Point, N. Y.	14.92	WRDQ	53.57, 53.45, 53.28	WUX	West Point, N. Y.	73.35, 67.42, 36.67	
WQZ	R. C. A., San Juan, P. R.	19.40, 18.76	WRDQ	45.8, 45.73, 37.43	WUY	Port Ethan Allen, Vt.	73.35	
WRB	P. A. A., Bangor, Me.	112.7, 97.71, 72.04, 52.72, 47.58, 37.43	WRDQ	128.97, 127.98, 92.8, 92.47, 86.9, 86.7	WUW	Port Crotchet, Texas	73.35, 67.42, 36.67	
WRBE	J. P. Mitchell, New York City	192.55	WRDQ	86.5, 86.1, 72.40	WUX	Ft. Bragg, Brownsville, Tex.	73.35, 67.42, 36.67	
WRBH	Police, Cleveland, Ohio	122.35	WRDQ	53.57, 53.45, 53.28	WVU	Port Sam Houston, Texas	73.35, 67.42, 36.67	
WRBN	John W. Weeks	96.15, 71.94, 48.30	WRDQ	45.8, 45.73, 37.43	WVU	Port Leavenworth, Kans.	69.7, 68.57, 34.84, 34.29, 22.86, 17.14	
WRBR	Frederick C.	48.23	WRDQ	128.97, 127.98, 92.8, 92.47, 86.9, 86.7	WVW	Port Crotchet, Texas	73.35, 67.42, 36.67	
WRBS	Packing Co., Petrel	129.3	WRDQ	86.5, 86.1, 72.40	WVX	Ft. Bragg, Brownsville, Tex.	73.35, 67.42, 36.67	
WRBV	Alaska Packer, Curlew	96.40, 54.3, 53.42	WRDQ	53.57, 53.45, 53.28	WVY	Port Sam Houston, Texas	73.35, 67.42, 36.67	
WRBY	Camargo	54.3, 54, 50.45, 51.05	WRDQ	45.8, 45.73, 37.43	WVD	Port Leavenworth, Kans.	69.7, 68.57, 34.84, 34.29, 22.86, 17.14	
		27.15, 27, 26.71						18.38, 14.70

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
WVL	U. S. A., Canal Zone, Panama	68.7, 34.36, 22.91, 17.18, 12.24, 12.22	CFH	Halifax, N. S.		CML	Santiago	
WVM	U. S. A., Monterey, Calif.	67.57, 33.78	CFI	Woman Lake, Ont.	100, 185.2, 109.5, 90, 86.7, 48.02	CMM	Matanzas	40
WVN	U. S. A., Tientsin, China	67.72, 33.86, 22.57, 16.93	CFJ	Red Lake, Ont.	100, 185.2, 109.5, 90, 86.7, 62.82, 42.02	CMO	Santiago	40
WVO	U. S. A., Boston, Mass.	67.5, 53.75, 67.45, 42.92	CFL	Tabouret, B. C.	185.2	CMR	Isla de Pines	40
WVP	Governors Isl., N. Y. City	42.92	CFM	Manicougan River, P. Q.	185.2	CMS	Pinar de Rio	40
WVR	Fort McPherson, Ga.	69.61, 42.92, 34.80	CFN	Grande Prairie, Alberta	175.3, 124.17, 86.7, 62.82, 46.7	CMV	St. Clara	40
WVT	Chicago, Ill.	68.49, 42.92, 34.25, 22.83	CFO	Lethbridge, Alberta	175.3, 124.17, 86.7, 62.82, 46.7	CMX	Camaguey	40
WVU	Fort Omaha, Nebr.	67.57, 42.92, 33.78, 22.52	CFQ	Edmonton, Alta.	98.7, 39.74	CMZ	Havana	40
WVW	Fort D. C., Russel, Wyoming	73.35, 36.67	CFR	Edmonton, Alta.	38.7, 39.74	CM2LA	Havana	29.98
WVX	Fort Douglas, Salt Lake City, Utah	74.45, 37.22	CFS	Mill Bay, B. C.	197.4, 131	CM2MK	Havana	31.9, 32
WVY	U. S. A., San Francisco, Calif.	34.88, DR90	CFT	Naum, B. C.	197.4, 131	CM6XJ	Cent. Tuineu	19.98
WVZ	Fort Haynes, Columbus, O.	73.53, 42.92, 36.76	CFU	Toronto, Ont.	175.3, 124.17, 86.7, 62.82, 46.7	CNA—CNZ MOROCCO		
WWA	D. of C., Radio Test Car No. 1, Var.		CFV	Peace River, Alb.	185.8, 131	CNC	Tangier	55, 43, 25
WWAB	D. of C., Buffalo, N. Y.	89, 88.8, 50.59, 50.54	CFW	Bones Bay, B. C.	197.4, 131	CND	Agadir	55, 43, 25
WWAC	D. of C., Nashville, Tenn.	89, 88.8, 50.68, 50.51	CFX	Smith Inlet, B. C.	197.4, 131	CNE	Rabat	44, 36
WWAH	D. of C., Albany, N. Y.	89, 88.8, 50.59, 50.51	CFY	Rivers Inlet, B. C.	197.4, 131	CMN	Rabat	
WWAJ	D. of C., Manitou Isl., Mich.	88	CFZ	Claxton, B. C.	197.4, 131	CNO	Casablanca Cazex	55, 43, 27, 25
WWAK	D. of C., Anacapa Light, Cal.	121.70	CGA	Drummondville, Ont.	16.50, 26.00, 32.13	CNR	Rabat	23.38, 32.26, A2-3, 84
WWAM	D. of C., Rock of Ages, Mich.		CGA	Drummondville, Ont.		CNW	Tanger	90
WWAO	D. of C., Huron Is., Mich.		CGB	Phone Channel to England		CPA—CPZ BOLIVIA		
WWAP	D. of C., Pittsburgh, Pa.		CGD	Gold Lake, Man.	62.82	CPAB	Bermijo	
WWAQ	D. of C., Jackson, Miss.		CGDJ	Drummondville, Ont.	146.3, 142.9	CPAC	Canieri	
WWAR	D. of C., Jackson, Miss.		CGE	Canadian Pacific Monarch.	198.7	CPAD	Camatindi	
WWAS	D. of C., Cincinnati, Ohio		CGF	Selkirk Mines, Man.	39.74	CPAL	La Paz	58.18, 52.63, 50.42, 40.11, 20.067, 16.322
WWAT	D. of C., Birmingham, Ala.		CGFW	The Pas, Man.	135, 62.82	CPAM	Machaceti	
WWAU	D. of C., Jackson, Mich.		CGH	Hebridean	181.8, 127.7	CPAY	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWAV	D. of C.		CGJ	Nauphilie	181.8, 127.7	CPC	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWAW	D. of C., Charleston, S. C.	89.8, 89, 50.03, 50.51	CGK	The Pas, Man.	148.5	CPF	La Paz	40.11, 20.067
WWAY	D. of C., Spectacle Reef, Mich.		CGL	Edmonton, Alb.	175.3, 124.17, 86.7, 62.82, 46.7	CPL	Santa Cruz	
WWB	D. of C., Baltimore, Md.		CGM	Hudson, Ont.	41, 62.82	CPS	La Paz	34.60, 30.64
WWBY	D. of C., Martins Reef, Mich.		CGO	Winnipeg, Man.		CPPT	La Paz	16.322
WWC	D. of C., Radio Test Car No. 6		CGP	Winnipeg, Man.		CPU	Marchureta	
WWE	Fourteen Port Shoal, Mich.		CGQ	Ocean Falls, B. C.	66.96	CPV	Yacuiba	68.18, 52.63, 50.42, 16.322, 34.60, 30.64, 40.11, 20.067
WWG	D. of C., Cheboygan Range, Mich.		CGS	Term Point, N. W. T.	195.8, 188.0, 185.2	CQA—CQZ—CRA—CRZ PORTUGUESE COLONIES		
WWH	D. of C., Stannard Light, Mich.		CGSN	Lac La Rigue, Sask.	175.3, 124.17, 86.7, 62.82, 46.7	CQA	Beira, Mozambique	34
WWM	D. of C., Marquette Light, Mich.		CGSR	Calgary, P. Q.	43.88, 36.3, 23.4	CQG	Guelimane, Mozambique	30
WWN	D. of C., Detroit, Mich.		CGT	McLean		CQJ	Macau, Macau	21.5
WWO	D. of C., Cleveland, Ohio	89.3, 89, 50.54, 50.51	CGV	C. G. Cutter, Stanley	55.50	CQK	Macau, Macau	32.5
WWQ	D. of C., Bellfonte, Pa.	89.8, 89, 50.83, 50.51	CGY	Campbell River, Can.	195.8, 188, 185.2	CRAP	Lorenco, Mozambique	31.6
WWR	D. of C., Detroit, Mich.		CGZ	Waskeasin, Sask.		CRAT	Porto Amelia, Mozambique	30.3
WWU	D. of C., Hadley Field, N. J.	89.6, 89, 50.68, 50.51	CJA	Flin Flon Mine, Man.	195.8, 180, 185.2	CRAV	Vila Francisco, Mozambique	30.3
WWX	D. of C., Wash., D. C.	24	CJD	Drummondville, Ont.	198.5	CRAX	Vila Paiva, Mozambique	31.2
WWY	D. of C., Pittsburgh, Pa.		CJE	Numerd Mt., Sask.	195.8, 180, 185.2	CRF	Cape Verde Islands	18.45
WWZ	D. of C., Key West, Fla.	88	CJG	Campbell River, B. C.	194.8	CRG	El General	
WXB	U. S. A., Fort Barrow, Alaska	68.7, 34.36	CJH	Cheepeel, B. C.	188.7	CRO	Costa Rica	
WXB	U. S. A., Anchorage, Alaska	69.81	CJK	Thuerston Bay, B. C.	198.4	CRS	Quando Arnold	18.564
WXH	U. S. A., Ketchikan, Alaska		CJL	Hecate Channel, B. C.	198.7, 131	CRZ	Loureco Port	18.36
WXIA	U. S. A., City of Havre		CJM	Knight Inlet, B. C.		CSA—CUZ PORTUGAL		
WXK	U. S. A., St. Louis, Mo.	115.1	CJN	Selwyn Inlet, B. C.	131	CSBZ	Guanza	35, 32, 26
WXR	U. S. A., Seward, Alaska	88.73, 34.36, 22.91, 17.18	CJR	Prince Edwards Isl.		CSF	Portugal	18
WYD	U. S. A., Wright Field, Ohio	73.53, 36.76	CJT	Cardeiro Channel, B. C.		CTAB	Adamastor	33
WYG	U. S. A., Kelly Field, Texas	73.35, 67.45, 33.75, 22.5	CJU	Geuers Hill, Nova Scotia	198.7	CTAH	Carrailler Maiyo	
WYN	U. S. A., Hatbox Field, Okla	73.35, 67.42, 30.04, 36.67, 33.75, 22.35	CJV	Calgary, Alta.	25.65	CTAO	Gil Eannes	
WYO	U. S. A., Hansley Field, Tex.	73.35, 67.42, 36.67, 33.75, 22.35	CJW	Wells Pass, B. C.	44.78	CTBH	Sagres	
WYQ	U. S. A., Luke Field, Hawaii	18.38	CJX	Margaret Bay, B. C.	44.78	CTBJ	Vasco de Gama	
WYS	U. S. A., Camp Clerk, P. I.	63.69	CJY	Jackson Bay, B. C.	131	CTH	Horta, Azores	30, 20
WYX	Wheeler Field, Hawaii	18.38	CKA	Kayoo Bay, B. C.	198.7	CTT	Faro	33
WYY	U. S. A., Dryden, Tex.	73.35, 67.42, 36.67, 33.75, 22.35	CKB	Geuers Hill, Nova Scotia	39.32, 54.64, 27.32	CTV	Monsanto	
WYZ	U. S. A., Fordsburg, N. M.	73.35, 67.42, 36.67, 33.75, 22.35	CKL	Calgary, Alta.	198.7	CTIAA	Santos	43.00
WZB	U. S. A., Midland, Tex.	42.92	CKM	Walker Lake, B. C.	197.4, 131	CUC	Lisbon	42.79, 42.55, 31.85, 31.68
WZAJ	U. S. A., Wright Field, Ohio	Variable	CKN	Lowe Inlet, B. C.	197.4, 131	CUD	Lisbon	DR25.17, 24.82, 24.48
WZB	U. S. A., Bracketville, Tex.	73.35, 36.67	CKP	Winnipeg, Man.	130.4	CUE	Lisbon	
WZC	U. S. A., Skagway, Alaska	69.61, 34.80	CKQ	Esquinealt, B. C.	25.65	CUF	Lisbon	30.165, 29.4
WZE	U. S. A., Kanakanak, Alaska	54.54	CKR	South Bay, B. C.	197.4, 131	CUH	Lisbon	DR37.05, DR33.426, DR31.595
WZF	U. S. A., Squaw Harbor, Alaska	68.74, 34.36	CKS	Holguin, B. C.	198.7	CUI	Lisbon	43.38, 40.92, 40.16, 39.13
WZG	U. S. A., Fort Bragg, N. C.	42.92	CKT	Vancouver, B. C.	44.78	CUS	Lisbon	DR20.76, DR19.89, DR18.8
WZJ	U. S. A., Scofield Barracks, Hawaii	18.38	CKU	Whitehorse, Yukon	90	CUW	Lisbon	DR15.641, DR22.396, DR21.47
WZK	U. S. A., St. Louis, La.	116.2	CKV	Baker Lake, N. W. T.	197.4, 131	CVA—CVZ RUMANIA		
WZL	U. S. A., Nogales, Ariz.	73.35, 36.57	CKW	Lowe Inlet, B. C.	21.55	CVW	Herastrau	13.23
WZM	U. S. A., Douglas, Ariz.	73.35, 36.67	CKZ	Winnipeg, Man.	22.51	CWA—CXZ URUGUAY		
WZN	U. S. A., Camp Stokesburg, P. I.	34.84	CMA	St. Johns, P. Q.		CWA	Cerrito	
WZO	Fort Bliss, El Paso, Tex.	73.35, 36.37	CMB	Havana	36	CWD	Cerrito	51.06
WZP	Fort Huachuca, Ariz.	73.35, 36.67	CMB2	Baracoa		CWE	Cerrito	45.39
WZQ	U. S. A., Camp J. Hay, P. I.	69.69, 34.84	CMB3	Holguin	74, 68, 64, 62, 36	CWF	Cerrito	34.92
WZK	Air Port, San Jose, P. I.	51.28	CMB4	S. Clara	90, 87, 57, 51, 45, 42, 38, 36	CWG	Cerrito	26.39
		CLM			50	CWH	Cerrito	22.83
		CLF				CWI	Cerrito	17.443
		CMA	Havana			D—GERMANY		
		CMB				DAAC	Europa	66.667, 18.160
		CMB2	Havana			DAAS	Liner von Utricho	190, 160
		CMB3	Havana			DABC	Walter Korte	190, 160
		CMB4	Havana			DAC	Elbe Weser	190
		CMB5	Havana			DAEK	Milwaukee	66.66, 18.1
		CMB6	Havana			DAEW	Hummel	190, 160
		CMB8	Havana			DAEX	Hagen	190, 160
		CMB9	Havana			DAHD	Arkna	190, 160
		CMB10	Havana			DAL	Hindenburg	190, 160
		CMB11	Havana			DALM	Bremervorhaven	175
		CMC	Havana			DALM	Brummer	180.72, 160.01, 153.06
		CMF	Havana			DALM	Brense	190, 160
		CMG	Havana					
		CMH	Havana					
		CMJ	Havana					

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
DAN	Nordkluh	52.91, 36, 26.45, 18, 66.67, 35.12, 23.81, 45.46	DFU	Konigs Wusterhausen	54.1	DTOR	Reguliers	190, 180.72, 169.01, 153.06
DANAB	Dox	153.06, 53.238, 36.45, 26.93, 190, 178	DFV	Konigs Wusterhausen	46.45	DTOW	Wilhelm Huth	190, 180.72, 169.01, 153.06
DAS	Swininuide	163.1, 160	DWA	Nauen	181.30			
DCD	Ausseneider	180	DGA	Nauen	14.634			
DCG	Elbe Feuerschiff	160	DGB	Nauen	14.691			
DCI	Elbe Feuerschiff	190, 160	DGE	Nauen	30.38			
DCK	Elbe Feuerschiff	190, 160	DGF	Nauen	13.321			
DCR	Stubbenkrammer	190, 160	DGG	Nauen	13.274			
DCS	Tonning	170	DGH	Nauen	22.782			
DCU	Robbenplate	190, 160	DGI	Nauen	28.89			
DCV	Bremen	180	DGJ	Nauen	22.42			
DDAO	Altenbruch	190, 160	DGK	Nauen	44.91			
DDAS	Bremen	66.667, 18.160	DGL	Nauen				
DDBR	Berlin	175	DGM	Nauen	14.058			
DDCB	Columbus	66.667, 18.160	DGN	Nauen	14.164			
DDCG	Risolute	175	DGO	Nauen				
DDCJ	Coblenz	175	DGP	Nauen	14.465			
DDCP	Cap. Polonio	66.667, 18.160	DGQ	Nauen	14.634			
DDDA	Wiser	175	DGR	Nauen				
DDDB	Werra	175	DGS	Nauen				
DDDC	Saarbrucken	175	DGT	Nauen				
DDDF	Sierra Cordoba	175	DGU	Nauen	31.088			
DDDQ	Serflinger	175	DGV	Nauen				
DDDT	Deutschland	66.667, 18.160	DGX	Nauen	14.896			
DDDX	Hamburg	66.667, 18.160	DGY	Nauen	14.955			
DDEA	Cap. Areona	66.667, 18.160	DGZ	Nauen	16.778			
DDED	New York	66.667, 18.160, 190,	DHA	Nauen	20.541			
DDEF	Reliance	160	DHB	Nauen	27.42			
DDFY	Micklenberg	151	DHC	Nauen	22.682			
DDGR	Orion	66.667, 18.160	DHD	Nauen	30.272			
DDGT	Gotha	175	DHE	Nauen	40.96			
DDJD	Frier	175	DHO	Nauen	14.985			
DDKD	Crefeld	175	DIA	Konigs Wusterhausen	38.07			
DDKO	Koln	175	DIB	Konigs Wusterhausen	57.085			
DDKV	Ditmar Koel	190, 160	DIC	Konigs Wusterhausen	56.24			
DDLL	Lutzow	175	DID	Konigs Wusterhausen	55.20			
DDMM	Hamburg	175	DIF	Konigs Wusterhausen				
DDNE	Madrid	175	DIG	Konigs Wusterhausen	14.792			
DDNY	Albert Ballin	66.66, 18.160	DIH	Nauen	15.040			
DDOE	Sierra Morena	175	DIJ	Konigs Wusterhausen	15.43			
DDOY	Norderney	190, 160	DIK	Konigs Wusterhausen	16.043			
DDRD	Dresden	175	DIL	Konigs Wusterhausen	16.855			
DDRM	Karlsruhe	175	DIM	Konigs Wusterhausen	17.3			
DDRQ	Auguste Kampf	180, 180.72, 169.10,	DIN	Konigs Wusterhausen	18.34			
DDRV	Wotan	153.06	DIO	Konigs Wusterhausen	19.9			
DDSV	Kustin Mites	190, 160	DIP	Konigs Wusterhausen	20.819			
DDSY	Seydite	175	DIQ	Konigs Wusterhausen	29.15			
DDTZ	Fielda	175	DIR	Konigs Wusterhausen	28			
DDUF	Stuttgart	175	DIS	Nauen	29.54			
DDUV	Sierra Ventana	175	DIT	Konigs Wusterhausen	29.66			
DDVN	Pimpelkoef Berlin	175	DIU	Konigs Wusterhausen	31.94			
DDXB	Genl Artigas	175	DIV	Konigs Wusterhausen	14.6, 3283			
DDYB	Vorek	175	DIW	Konigs Wusterhausen	34.76			
DDZI	Amerika	70, 25	DIX	Konigs Wusterhausen	36.58			
DEL	Nauen		DIV	Konigs Wusterhausen	39.80			
DEN	Nauen		DIZ	Konigs Wusterhausen	51.61			
DENN	Graf Zeppelin	37.3	DJG	Konigs Wusterhausen				
DEP	Nauen		DKA	Konigs Wusterhausen	91.7			
DES	Nauen		DKB	Konigs Wusterhausen	85.5			
DFA	Nauen	15.582	DKC	Konigs Wusterhausen	83.4			
DFB	Nauen	17.123	DKD	Konigs Wusterhausen	69.8			
DFC	Nauen	23.103	DKE	Konigs Wusterhausen	64.2			
DFD	Nauen	20.457	DKF	Konigs Wusterhausen	61.9			
DFE	Nauen	30.582	DKG	Konigs Wusterhausen	57.2			
FFF	Nauen	30.9	DKH	Konigs Wusterhausen	54.6			
DFG	Nauen		DKJ	Konigs Wusterhausen	52.7			
DFI	Nauen		DKL	Konigs Wusterhausen	48			
DFH	Nauen	40.91	DKN	Konigs Wusterhausen	43.8			
DFJ	Nauen	15.228	DKO	Konigs Wusterhausen	40			
DFK	Nauen		DKP	Konigs Wusterhausen	36.8			
DFL	Nauen	27.65	DKQ	Konigs Wusterhausen	35.7			
DFM	Nauen	15.416	DMKR	Karlsruhe				
DFO	Nauen	30.832	DOA	Coblenz	37.5, 67.76, 82.9			
DFOA	Amsel	190, 160	DPOA	Altland	190, 160			
DFOB	Bahrenfeld	190, 160, 180.72, 169.10,	DPOB	Hilde	190, 180.72, 169.1, 153.6			
DFOC	Granz	190, 160	DPOC	Ernst von Briesen	190, 180.72, 169.1, 153.06			
DFOD	Ditmar Koel	190, 180.72, 169.1, 153.06	DPOD	Dolly Kuhlin	190, 160			
DFOE	Bremen	190, 160	DPOE	Heinrich Freise	190, 160			
DFOF	Weser	190, 160	DPOF	Friederic Rex.	190, 160			
DFOG	Weisbaden	190, 160	DPOH	Jacob Goldschmidt	190, 160			
DFOH	Huxtee	190, 160	DPOI	Prez Von Hindenberg	190, 160			
DFOL	Pickhuber	190, 160	DPOJ	Johann Stadtlander	190, 160			
DFOJ	Hans Joachim	190, 160	DPOK	Konsul Dubbers	190, 160			
DFOK	Kongingsberg	190, 160	DPOL	Skoopenbank	190, 160			
DFOL	Leipzig	190, 160	DPM	Fritz Homann	190, 160			
DFOM	Marie Schroder	190, 160	DPN	Nordland	190, 160			
DFON	Nachtigall	190, 160	DPOO	Oscar Neynaber	190, 160			
DFOO	John Mahn	190, 180.72, 169.1, 153.06	DPOP	Spica	190, 160			
DFOP	Dortmund	190, 160	DPOQ	Heinrich Buerin	190, 180.72, 169.01, 153.06			
DFOQ	Fleensburg	190, 180.72, 169.01, 153.06	DPOR	Orion	190, 180.72, 169.01, 153.06			
DFOR	Mariene	190, 160	DPOS	Julius Pickenpack	190, 180.72, 169.01, 153.06			
DFOS	Hauseat	190, 160	DPOT	Schlewig	190, 180.72, 169.01, 153.06			
DFOT	Neufundland	190, 160	DPOU	Hamburg	190, 180.72, 169.01, 153.06			
DFOU	Stubbenhuk	190, 160	DPOW	August Wriedo	190, 160			
DFOV	Vonvarts	190, 160	DPOY	Elsie Schroder	190, 160			
DFOW	Edward	190, 160	DPOZ	Fritz Schroder	190, 160			
DFOX	Antaguehitrat	190, 160	DTOA	Kap Kanin	190, 180.72, 169.01, 153.06			
DFOY	Marie Richardson	190, 160	DTOC	Koblenz	190, 180.72, 169.01, 153.06			
DFOZ	Carsten Rehder	190, 160	DTOK	Adolf Kuhling	190, 180.72, 169.01, 153.06			
DFP	Nauen	37.89	DTOM	Morve	190, 180.72, 169.01, 153.06			
DFQ	Nauen	16.667						
DFR	Nauen	19.237						
DF3	Nauen							
DFT	Nauen	38.40						
EAA—EHZ SPAIN								
EAD	Cadiz		EAH	Madrid		180	32.93, 31.65, 16.456, 14.735, 15.456	
EAH	Madrid		EAJ	Canary Islands		170		
EAJ	Reina Maria Eugenia		EAJ	Magallines		160	30.864, 26.104	
EAJ	Madrid		EAK	Las Palmas, Canary Is.		35.83, 30.549, 21.806, 20.08, 20.046, 19.91		
EAM	Madrid		EAM	Barcelona		43.89, 30.7, 21.85		
EAN	Madrid		EAN	La Palma		29.17		
EAND	Cabo San Agustin		EAN	Canary Islands		15.576, 15.385, 15.259		
EANE	Cabo Santo Fomi		EAN	Basile		35.85, 23.9		
EAW	Madrid		EAX	Barcelona		61.73, 50.70, 43.70		
EAX	Basile		EAX	Leon y Castillo		37.41, 31.8, 21.79, 20.13		
EDK	Madrid		EAY	Madrid		17.4		
EDZ			EAY	Basile		4		
EEZ	Madrid		EAY	4		31		
EEZ	Madrid		EAY	Madrid		44.87, 29.97, 28.52, 25.75, 25.07, 22.44, 22.08, 16.502, 14.962		
EHX	Madrid		EHX	Madrid		29.25		
EHY	Madrid		EHY	Madrid		29.70		
ELA—ELZ LIBERIA								
ELA	Monrovia		ELB	Bassa		34.284, 38.50, 29.09, 19, 17.142, 16.26, 15.16, 15.045		
ELC	Monrovia		ELM	Monrovia		84.98		
ELM	Monrovia		ELP	Cape Palmas		60		
ELR	Cape Mount		ELR	Linoe		75.57		
ELS	Linoe		ELS	Linoe		60, 85.47		
ESA—ESZ ESTONIA								
ESQ	Air Service		FGA	Porto		175		
ESO	Fallinn		FGA	Porto		52.63, 42.85, 32		
ESP	Parnu		FGA	Porto		127		
ESR	Rubnu		FGA	Porto		123		
F—FRANCE (Including colonies and protectorates)								
FALD	Aldeharen		FBD	Beyrouth, Syria				
FAMJ	Jeanne d' Arc		FBD	Beyrouth, Syria				
FAMP	Lamotte Picquet		FBT	Tunis, North Africa		35, 30		
FBD	D'regregor, Syria		FBT	Ville Dip				
FCH	Beyrouth, Syria		FCF	Casablanca, Morocco		53, 51.8, 26		
FCH	Beyrouth, Syria		FEAI	Coengula, Africa				
FBY	Beyrouth, Syria		FFP	La Havre				
FBY	Beyrouth, Syria		FFS	S. Maries		35.5, 23.5		
FBY	Beyrouth, Syria		FFG	Shanghai, China				
FBY	Beyrouth, Syria		FFG	Koukaga, China		28.5		
FBY	Beyrouth, Syria		FGA	Dakar, Fr. W. Africa		37, 31, 22.50		
FBY	Beyrouth, Syria		FGA	Port Etienne, Fr. W. Africa		50		
FBY	Beyrouth, Syria		FGA	Port Etienne, Fr. W. Africa		34.98, 33		
FBY	Beyrouth, Syria		FGA	Abidjan, Fr. Old Africa		32.37		
FBY	Beyrouth, Syria		FGA	Agades, Fr. Old Africa		43		
FBY	Beyrouth, Syria		FGA	Chingnetti, Fr. Old Africa		27.5		
FBY	Beyrouth, Syria		FGA	Bamako, Fr. W. Africa		34, 22		
FBY	Beyrouth, Syria		FGA	Kabarrah, Fr. W. Africa		29		
FBY	Beyrouth, Syria		FGA	Ramakko, Fr. W. Africa		13		
FBY	Beyrouth, Syria		FGA	Kidal, Fr. W. Africa		41		
FBY	Beyrouth, Syria		FGA	Tindu, Fr. W. Africa		32		
FBY	Beyrouth, Syria		FGA	Tahona, Fr. Old Africa		42		
FBY	Beyrouth, Syria		FGA	Agades, Fr. W. Africa		34.50		

Call Letters	Location	Wavelength (meters)	Cell Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
FAA	Douala, Fr. Africa	34.50, 27.50	FRG1	Laos, Fr. Indo China	38	FZQ	Hanoi, Fr. Indo China	23.50, 20
FIB	Yaounde, Fr. Cameroons	33.33, 26	FRH	Pompeint, Fr. Indo China	41.20	FZR	Saigon, Fr. Indo China	31.50, 18.50
FIB1	Yaounde, Africa		FRI	Puinton, Fr. Indo China	60	FIS	Saigon, Fr. Indo China	24.91, 16.32
FIC	Saroua, Fr. Cameroon	33.33, 26	FRK1	Tonkin, Fr. Indo China	35, 37.85, 28.02	FIT	Tananarive, Madagascar	33.165, 24.45, 16.76
FIC1	Saroua, Cameroone-Africa		FRK2	Phulien, Fr. Indo China	36, 37.85, 28.02	FIZ	Tananarive, Madagascar	39.78, 20.34, 1344
FID	Maroua, Fr. Cameroon	33.33, 26	FRL	Laichan, Fr. Indo China		FIZU	Tananarive, Madagascar	12.2, 15.4, 34.8, 34.48
FID1	Maroua, Cameroons-Africa		FRL1	Laichan, Fr. Indo China	34.50	FIZV	Madagascar, Africa	15.09, 12.24
FIE	Batouri, Fr. Cameroon	33.33, 26	FRN	Nao-Tcheeon, Fr. Indo China	28	FZW	Tananarive, Madagascar	39.215, 24.435, 13.42
FIF	Fr. Cameroon	37	FRO	St. Assise	15.45	FZX	Tananarive, Madagascar	
FIG	Fr. Cameroon	33.50	FRP1	Poulo, Fr. Indo China	40	FBZ	France	19.50
FIH	Fr. Cameroon	33.50	FRQ1	Phuquoc, Fr. Indo China	42.50	FSKR	Constanten, Algiers	42.80
FIII	Fr. Cameroon	37	FRS	Saigon, Fr. Indo China		F8MC	Morocco	43.60
FJ1	Bafia, Fr. Cameroon	43	FRS1	Saigon, Fr. Indo China	22.40			
FIL	Diego Luariz, Madagascar	55.04, 36.8	FRS2	Saigon, Fr. Indo China	21.50			
FIM	Draoudgi, Madagascar	54.5, 37.5	FRS3	Saigon, Fr. Indo China	38.50	GAA	Rugby	14.72
FIN	Hollyville, Madagascar	54	FRS4	Saigon, Fr. Indo China	24.80	GAB	Rugby	16.63
FIQ	Majunga, Madagascar	53.5, 38	FRS5	Saigon, Fr. Indo China	28.12	GAP	Rugby	16.86
FIP	M' de Radio, Madagascar	53	FRU	Ifue, Fr. Indo China	62.50	GAQ	Rugby	15.81
FIQ	Mutasaumu, Madagascar	52.5	FRV	Vientiane, Fr. Indo China		GAS	Rugby	16.38
FIR	S. Marie de, Madagascar	52	FRV1	Vientiane, Fr. Indo China	36.50	GAU	Rugby	16.11
FIS	Tamatave, Madagascar	51.5, 46	FRW	Sam Naea, Fr. Indo China	38	GAW	Rugby	16.48
FIT	Tulear, Madagascar	51, 38.5	FRZ	Vink, Fr. Indo China	72	GAX	Rugby	16.06
FIU	Tananarive, Madagascar	44.5, 37	FSC	Poulo-Canton, Fr. Indo China	28.30	GBA	Rugby	21.44
FIV1	Busy, Madagascar	50.5	FSE	St. Assise	22.32	GBB	Rugby	22.08
FIX1	Fomboni, Madagascar	50	FSF	Norways, Fr. Indo China	28.10	GBC	Rugby	60.30, 34.56, 23.47, 17.56
FIY1	Madagascar	55.5	FSG	Poulo-Gambir, Fr. Indo China	27.803	GBH	Grimsby	25.927, 25.923, 25.891, 25.886
FIZ1	Saharaho, Madagascar	50, 39	FSH	Hionlon, Fr. Indo China	28.503	GBI	Grimsby	34.204, 34.198, 34.188, 34.134, 16.224, 16.208
FJF	St. Dennis, Reunion	31	FSI	St. Assise		GBJ	Bodmin	34.048, 34.040, 34.013, 33.988, 33.979, 16.154, 16.138
FJP	Noumed, New Caledonia	24	FSO	St. Assise		GBK	Rugby	34.429, 32.422, 32.397, 32.373, 32.366, 16.583, 16.566
FJW	Wallis, New Caledonia	22.4	FSQ	St. Assise		GBL	Oxford	
FLE	Eiffel Tower, Paris, France	73.50	FTA	St. Assise	25.125	GBM	Leafields	56.33, 42.96, 28.16
FLJ	Iassy-les Moulineaux, France	32.5	FTB	St. Assise	40.05	GBT	Vikingen	33.8
FMB	Tamatave, Madagascar	14.5	FTC	St. Assise	14.25	GBMT	Vikingen	32.54, 27.37, 22.132, 4.23
FMN	Beyrouth, Syria		FTD	St. Assise	15.12	GBN	Oxford	
FNAQ	Aeropostale 1	57, 53, 26.70	FTE	St. Assise	16.44	GBO	Oxford	15.275
FNAR	Aeropostale 2	57, 38.6, 26.7	FTF	St. Assise	38.61	GBP	Rugby	27.855
FNAS	Aeropostale 3	57, 53, 26.7	FTG	St. Assise	43.92	GBQ	Rugby	22.28
FNAT	Aeropostale 4	57, 53, 26.7	FTH	St. Assise	27.42	GRB	Rugby	
FNB	Le Bourget	45.5, 43, 55, 25	FTI	St. Assise	27.72	GRD	Cunard Aquitania	36.54, 26.59, 17.81
FNBA	Campans	36.5, 28.5, 23	FTJ	St. Assise	18.439	GRS	Rugby	24.41
FNBC	Alasina	36.5, 35.5, 23	FTK	St. Assise	18.80	GBT	Rugby	20.78
FNBG	Florida	36, 22, 17	FTL	St. Assise	30.15	GBW	Rugby	36.5, 26.59, 17.81
FNBN	Mendoza	36.5, 35.5, 27, 24	FTM	St. Assise	15.50	GBW X	Rangitane	28.49
FND	Dijou	55, 45.5, 43, 25	FTN	St. Assise	24.46	GBX	Rugby	38.5, 26.59, 17.81
FNEK	Kroumie	42, 38, 42	FTO	St. Assise		GBXM	Orontis	38.5, 26.59, 17.81
FNEY	Michel Venture	38, 35.5	FTU	St. Assise		GBZL	Arctic Queen	38.5, 26.59, 17.81
FNFR	Kabyle	38, 42	FTV	St. Assise	30.97	GBZW	Cunard Beringaria	36.54, 26.59, 17.81
FNFT	El Golea	38, 45	FTX	St. Assise	31.20	GCA	Rugby	30.885
FNHN	El Kantara	185	FTY	St. Assise	38.04	GCB	Rugby	32.33
FNHX	Marchal Lyantey	38, 42	FTZ	Tananarive, Madagascar		GCC	Northumberland	
FNHZ	Djeine	38, 22, 44	FUA	Brest		GCF	Cathay	36.5, 26.59, 17.81
FNH	Koutoubia	22, 36	FUE	Mengam (Brest)		GCJS	Lady Rachael	190, 17.75
FNH	Nicolas Paquet	45, 38, 68, 42	FUL	Toulon		GCK	Valinta	
FNKA	Ils St. Paul	35.5, 23.5	FUR	Toulon		GCKZ	Lord Melchett	
FNKO	Marc Achelle	38.5	FUT	Toulon		GCP	Rugby	27.88
FNKU	Frederic Sauvage	38.5	FUT	Toulon		GCQ	Rugby	34.25
FNLC	Americque		FVA	Algiers, Algeria	31	GCS	Rugby	33.26
FN LJ	Q'Allentique	35.20, 26, 23	FW	St. Assise	15.43, 31.2	GCTZ	Naldera	36.5, 26.59
FNLP	Bauve		FW3	Paris	15.42, 31.2	GCU	Rugby	30.15
FNLS	Brazza	36, 24.50	FW4	St. Assise	24.4	GCVB	Narkundo	36.5, 17.8
FNMQ	Foucauld	36, 24.5	FWX	Beyrouth, Syria	22.62, 20.15	GCW	Rugby	30.845
FNP	Pipingman	55, 43, 27, 25	FXC	Beyrouth, Syria	37.57	GCWD	Rhodora	36.5, 26.59
FNRD	Basse Terre		FXD	Beyrouth, Syria	33, 28.28, 39.60, 22.002, 18.66, 14.925	GCX	Rugby	33.63
FNOI	Alexandrine		FXE	Beyrouth, Syria	43, 66, 56, 25.80, 18.43	GCYL	Arundel Castle	36.5, 23
FNRQ	Cuba		FXI	Beyrouth, Levant	33	GDP	Rugby	44.15
FNR	Flandre		FXJ	Beyrouth, Levant	39.60	GDFK	Fantome 2	36.5
FNRZ	France	36, 24.5, 180	FXK	Beyrouth, Levant	28.275	GDKJ	California	
FNS	Strasbourg	55, 43, 27, 25	FXL	Beyrouth, Levant	56	GDKB	Dorsetshire	36.5, 26.59
FNSM	Ile de France	36, 24.5	FXM	Beyrouth, Levant	43	GDKC	Yorkshire	36.5, 26.59
FNTQ	Colombie	36.5, 23.5, 18	FXN	Beyrouth, Levant	22	GDLJ	Homerica	36.5, 26.59
FNUQ	Paris	38, 24.5	FYA	Pontoise (Paris)	39.02, 29.806, 22.413, 16.07	GDN	Tucania	
FNU	La Fayette	38, 24.50	FYB	Pontoise (Paris)	36.63, 26.58, 28.35	GDP	Owpea	36.5, 26.59, 17.81
FNY	Champlain		FYC	Paris T. S. F.	40.37, 24.793, 18.785	GDS	Dungencoe Lighthouse	
FOAI	Biarritz		FYD	Pontoise (Paris)	37.15, 29.32, 23.077	GDVS	Rugby	43.45
FOAJ	Athos 2	36.3, 24	FYM	Croix d'Hins	69.124, 44.117, 29.07	GDVZ	Aorangi	36.5, 17.75
FOAT	Georges Philippae	36, 26.5, 23.80			15.217	GDW	Moldavia	36.5, 26.59, 17.81
FOAV	Chantilly					GDXF	Rugby	40.11
FOBJ	D' Artagnan	36, 35.5, 34				GD XS	M. V. Britannie	36.5, 26.59, 17.81
FOBJ	Felix Roussel	36, 35.5, 23				GD ZIP	Somersetshire	36.5, 26.59
FOBJ	Sphinx					GD DIV	Makinal	36.1, 23.1
FOEN	Roxane					GE	Caddington	
FOHB	Canada	36, 24.5				GED	Croydon	
FOHH	Patria	36, 24.5				GEFT	II. M. S. Concord	
FOHI	Providence	36.5, 35.5, 27, 24				GEG	Lymne Kent	
FONO	Edmond René					GEM	Manchester	
FOHQ	Sierents					GEO	Singapore, China	
FOQN	Veleta 2	175, 36				GEQ	Singapore Str. Settlements	44.40
FOS						GER	Renfrew, Scotland	
FOTC	Victrix	26.3				GEY	Channel Islands	
FOTI	Lutetia	25, 22.6, 35				GEZ	Gen'l Call All British Ships	
FOTN	Marcellin					GFA2	London	54
FOTN	Massilia	36, 24.50				GFA3	London	32.29
FOTP	Bruneaire	36, 27				GF B2	Croydon	43
FOVX	Michèle Francois	35.5				GF B3	Mooltan	
FUWU	Rosemonde	38.5				GF BD	Malojo	36.5, 26.59, 17.81
FOXW	Senniville	35.5, 22.5				GF BJ	Mongolia	36.5, 26.59, 17.81
FOXT	Victoria	46, 36, 24.5				GF BL	Ballarat	36.5, 26.59, 17.81
FOYQ	St. Jeanne d' Arc	37, 21				GF BM	Bahanal	36.4, 26.59, 17.81
FOYQ	Papute	40, 23				GF BN	Baradine	36.5, 26.59, 17.81
EPB1	Austral	36, 23				GF BP	Barrabool	36.5, 26.59, 17.81
FPBC	Vendémiaire	36.60, 23				GF BQ	Bendigo	36.5, 26.59, 17.81
FPBQ	Surges de Joly	190						
FPCA	Esperance	45, 36						
EPE	Taihoa, Fr. Oceania	40						
FPI	Port de France							
FPQ	Destrellian							
FQE	St. Assise	24.67						
FQN	St. Pierre, Fr. St. Pierre	57.70, 50, 1955, 18.30						
FQO	St. Arassie, France	24.67						
FRA	Hanoi, Fr. Indo China							
FRB	Battambang, Fr. Indo China	38.50						
FRD	Dalat, Fr. Indo China	29						
FRE	St. Assise	15.45						
FRF1	Fort Bayard, Fr. Indo China	33.30						
FRG	Luangprabung, Fr. China							

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
GEO	Andoca		GJVR	British Hussar	38.48, 26.50, 17.81	GNP	Ongar	15.182
GFD	British Colonel	38.5, 26.50, 17.81	GJZT	Southern King	38.5, 26.50	GNPZ	Thomas Bartlett	150
GDF	Comorin	38.5, 26.50, 17.81	GKB	Northholt-London		GNRC	Orford	38.5, 26.50, 17.81
GFF	Felixstowe		GKC	Northholt-London		GNS	Ongar	25.93
GFB	Worthy Down		GKFB	Cavina	38.5, 26.50, 17.81	GNTS	Duchess of Athol	38.5, 26.50
GFH	Aldergrove		GKFY	Minnetonka		GNTV	Duchess of Bedford	38.5, 26.50
GFI	Ismailion, Egypt	40.32	GKH	Orkney Islands, Scotland		GNV	Newhaven	150
GJ	London	22.22	GKJ	Orkney Islands, Scotland		GNWN	Dromore Castle	76, 22.4
GJF	London	44.44	GKMV	Earl Essex	177.5	GNXP	Niagara	37.5, 17.85
GJF2	London	29.885	GKP	Dolls Hill	62.04, 11	GNZC	Margaret Rose	177.5
GJF3	London	54.99	GKPV	British Progress		GOE	Grimsby	31.98
GFK2	Croydon	40.5	GKPVX	Fagenta	177.5	GOF	Grimsby	29.40
GFK3	Croydon	38.49, 26.50, 17.81	GKQ	Dolls Hill	27.00	GOI	Grimsby	34.168
GFKV	Atranto		GKQ	Dolls Hill	52.19, 47.02	GOJ	Bodmin	34.013
GFL	Calahot		GKQX	Ranpura	38.5, 26.50, 17.81	GOK	Bodmin	32.397
GFM	Mountbatten	48.15	GKZ	Wick, Scotland		GOL	Bodmin	32.03
GFM2	Mountbatten	70	GKR	Arwyco	38.22, 6	GOM	Dorchester	37.78
GFM3	Pole Star	180	GKZ	Arwyco	38.81, 22.01, 15	GON	Ongar	31.76
GFM4	Windsor Castle	38.5, 26.50, 17.81	GKS	Dolls Hill	28.50, 17.81, 28.49,	GOQ	Ongar	39.525
GFM5	Polar Chief	28, 27	GKT	Portishead	38.54, 24.17, 18.25	GOR	Ongar	33.98
GFM	London	23				GOS	Ongar	32.34
GFM2	London	21.58				GOV	Ongar	33.98
GFM3	London	32				GOZ	Dorchester	57.58
GFM4	London	40.27				GPK	Portpatrick, Scotland	
GFM5	London	43.16				GPLY	Achimota	38.5, 26.50, 17.81
GFN	Vandyck					GQPK	Parkinson Quay	
GFO	Sealand, Wales					GQQM	Queen Victoria Lifeboat	197
GFP	Oxfordness Light House					GQNS	New Seville	38.5, 26.50, 17.81
GFO	British Somaliland	22.22				GQVP	Lancashire	
GFO2	British Somaliland	44.48				GQWF	Lady Astley	A1-2-3, 150
GFR	Flowndown					GQWP	Tewera	
GFRQ	Orama	38.5				GQXK	Tekoura	A1-2-3, 150
GFSB	Empress of Australia	38.5, 17.8				GRA	London	
GFSN	Onocravon					GREN	Grenada, B. W. I.	
GFS	British Grenadiere	38.5, 26.50, 23.75, 17.81				GRL	Fishguard	
GFSV	British Gunner	38.5, 17.81				GRLJ	Georgic	38.54, 26.35, 17.06
GFU	Uxbridge	198, 178.5, 150.1				GRM	Artrum, Ireland	
GFP	Druban					GRNW	Corfa	38.5, 26.50, 17.81
GFP	Bagdad, Iraq	22.22				GRNX	Carthage	38.5, 26.50, 17.81
GFRV2	Bagdad, Iraq	44.55				GRPZ	Strathnaver	38.5, 26.50, 17.81
GFWB	Anglo Norse	38, 27				GRQ	Dolls Hill	
GFWV	British Chancellor	38.34, 26.35, 17.06				GRSX	Strathaird	38.49, 26.50, 17.81
GFWQ	British Trader	38.5, 17.81				GRTH	Lifeboat Wm. C. Kate	A3, 190, 180
GFW	Ambala, India	44.44, 22.21				GRWC	Ditimer	A3, 177.5
GFWK	S. Gerardo					GRWD	Bass Rock	177.5
GFWV	Majestic	38.5, 26.50				GRWF	Pomona	177.5
GFX	British Ismailia, Egypt	22.24				GRWK	Stanpel	177.5
GFX2	Ismailia, Egypt	44.48				GRWJ	Thomas Hawkins	177.5
GFX3	Ismailia, Egypt	29.985				GRWL	Wm. Caldwell	177.5
GFX4	Ismailia, Egypt	40.43				GRWN	Emu	177.5
GFX5	Ismailia, Egypt	22.22				GRWS	Tholland	26.50, 17.81, 38.54
GFXK	J. W. Mackay	54.19, 13.488				GRXC	Erin	38.54, 28.35, 23.42, 17.09
GFXQ	Empress of Canada	38, 14				GSB	Baffin Land	
GFXW	British Enterprise	38.19, 26.50, 17.81				GSDT	Normandy	190
GFY	Ismailia, Egypt	21.65				GSL	Antirris	
GFY3	Ismailia, Egypt	22.44				GSMB	Cragpove	
GFX	Ismailia, Egypt	43.23				GSMO	M. C. Leonie	38.5, 26.50, 17.81
GFX5	Ismailia, Egypt	22.22				GSRJ	Arctic Prince	
GFXK	J. W. Mackay	54.19, 13.488				GSRL	Vacuoline	
GFXQ	Empress of Canada	38, 14				GSRZ	Staffordshire	
GFXW	British Enterprise	38.19, 26.50, 17.81				GSRV	Duchess of Richmond	
GHA	Calapania, Malta					GSW	Stonehaven, Scotland	
GHB	Bagdad, Iraq					GSXB	Tehama	160
GHC4	Bagdad, Iraq	43.103				GSXW	Rangili	36
GHC5	Bagdad, Iraq	21.567				GSYN	Duchess of York	38.5, 26.50
GHK	Ismailia, Egypt	26.5				GZSN	Rangitata	38.5, 26.50, 17.81
GHK2	Ismailia, Egypt	41				GTCV	Laurewood	
GHL	Aldershot	38.79, 37.69, 22.99, 18.84				GTLB	Thomas Leeds	81.52
GHM	Aldershot	38.79, 37.69, 22.99, 18.84				GTLC	Tally Ho	81.52
GHN	Aldershot	38.79, 37.69, 22.99, 18.84				GTLD	Daily Mail	81.52
GHO	Aldershot	38.79, 37.69, 22.99, 18.84				GTLJ	Daily Mirror	177.5
GHQ	Dolls Hill					GTLK	Daily Herald	177.5
GIA	Oxford	15.275				GTLM	Daily Express	177.5
GIB	Oxford	25.04				GTLN	Stender	177.5
GIC	Oxford	34.72				GTLQ	S. Sebastian	177.5
GID	Oxford	22.13				GTLR	Ferrol	177.5
GIF	Oxford	32.54				GTLT	Frascate	177.5
GIG	Oxford	44.28				GTLV	Saurian	177.5
GIJ	Oxford	42.96				GTLX	Wm. Humphries	177.5
GIK	Oxford	50.24				GTLZ	Arthur Cavanagh	177.5
GIL	Oxford	15.40				GTMB	Michael Griffith	177.5
GIM	Oxford	21.94				GTMO	Normandy	177.5
GIN	Oxford	27.37				GTMF	Gordon Richards	177.5
GIO	Oxford	47.02				GTMJ	Kuroki	177.5
GIP	Dolls Hill	11				GTMK	Caldy	177.5
GIQ	Dolls Hill	27.8				GTMQ	Seebeck	177.5
GIR	Dolls Hill	52.49				GTMR	Traocla Prince	177.5
GIS	Dolls Hill	16				GTMV	Macaco	177.5
GIS	Dolls Hill	16				GTMV	Tenedor	177.5
GIT	Dolls Hill	22.01				GTMV	Charmouth	177.5
GIU	Dolls Hill	38.81				GTMV	Tracocle Prince	177.5
GJFV	British Corporal	38.54, 26.35, 17.06				GTMV	Charmouth	177.5
GJFW	British Mariner	38.59, 26.50, 17.81				GTMW	Ermine	177.5
GJFX	British Workman	38.5, 26.50, 17.81				GTMX	Kenneth McRae	177.5
GJKT	British Councillor	38.5, 26.50, 17.81				GTMY	Lily McRae	177.5
GJKV	British Commander	38.5, 26.50, 17.81				GTMZ	Rivisby	177.5
GJLB	British General	38.5, 26.50, 17.81				GTPJ	Victor	177.5
GJLM	British Advocate	38.5, 26.50, 17.66				GTPZ	Bostonian	177.5
GJLN	British Engineer	38.5, 26.50, 17.81				GTPY	Warwich Castle	38.5, 26.50, 17.81
GJLQ	British Sergeant	38.5, 26.50, 17.81				GTPZ	Winchester Castle	38.5, 26.50, 17.81
GJMS	British Commerce	38.5, 26.50, 17.81				GTRM	Tenidos	177.5
GJMZ	Creatpower	177.5				GTSD	Daily Telegraph	190
GJNQ	British Commodore	38.54, 26.35, 17.06				GTSD	Monarch of Bermuda	110, 71.8, 71.18, 54.94, 33.9
GJNV	British Lord	38.5, 26.50, 17.81				GTSL	Passages	190
GJPR	Adda	38.49, 26.50, 17.81				GTVM	Lady Beryl	190, 777.5
GJQM	British Premier	38.5, 26.50, 17.81				GTVM	Malayan	177.5
GJRJ	British Captain	38.5, 26.50, 17.81				GUR	Folkestone Harbor	150
GJRU	Ownsay	38.49, 26.50, 17.81				GXA	British Navy	
GJSF	British Lady	38.54, 26.50, 17.06				GYA	London	
GJSL	Camaroon Castle	38.5, 23				GYB	Cleethorpes	
GJVQ	British Yoeman	38.5, 26.50, 17.81						

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
LCPT	Kong Ring...	36, 27	LOL	Darsena Norte...	34.52	OHA	Oka—OKZ CZECHOSLOVAKIA	
LCPW	S. C. Brovig...	19.15	LOM	Buenos Aires...	40.3	OKU	Helsinki...	44.15
LCQ	Jeloy...	15.07	LOR	Buenos Aires...	34.64	OKH	Praha...	44.04, 22.03, 14.286
LCR	Tyhol...	15.065	LOW	Trelew...	34.40	OKI	Praha...	33.67, 18.66
LCSS	Dalavangen...	36.8, 33.7, 27.3, 26.3	LP1	Buenos Aires...		OKIMP	Praha...	58.3, 49.75
LCSG	Laneing...	35.1, 33.7	LP2	Monte Grande...		OKN	Praha...	
LCT	Markland...	30.3, 35.85	LP3	Monte Grande...		OKU	Praha...	40.85
LCTE	Thor 1...	35.1, 33.7	LP4	Monte Grande...				
LCTF	Thorshammer...	34, 27	LP5	Monte Grande...				
LCTJ	Maudie...	35.1, 33.7, 27.3, 26.3	LPD	General Pachico Radio...	36	ONA	Banana, Belg. Congo...	48.68, 38.87, 22.72
LCTM	Lindvianen...	36.8, 33.7, 27.3, 26.3	LPF	Formosa...	44.06	ONC	Coquilhatville, Belg. Congo...	24.39
LCTX	Polartank...	35.1, 33.7	LPG	General Pacheco...	36	OND	Slands Welvaren...	180
LCUC	Nordanger...	36.1, 28.6, 24, 18	LPH	Monte Grande...	33.84	ONH	Bruxelles, Belg. Congo...	55
LCUG	Fanny Hoegh...	35.1, 33.7	LPJ	Buenos Aires...	27.27	ONLB	Leopoldville...	36, 24, 18
LCUH	Norwegia...	35.1, 33.7, 27.3, 26.3	LPL	Correntoso...	32	ONMB	Lindbergh II...	180
LCUO	Nielsoo Alonso...	35.1, 33.7	LPM	Buenos Aires...		ONNB	Teniers...	180
LCUV	Orwell...	36, 27	LPN	Bariloche...		ONOB	Remorquerer...	180
LCVB	Turicum...	35.1, 33.7, 27.3, 26.3	LPQ	Laguna Blanca...		ONRB	Annie...	180
LCWF	Roald Amundson...	36, 27	LPV	Alto de Sierra...	58.02	ONRC		
LCWK	Ronald...	35.1, 33.7, 27.3, 26.3	LPX	Buenos Aires...		ONSB	Ibia...	180
LCXL	Dagfred...	35.1, 33.7	LQB	Monte Grande...	30.94	ONTB	Marcelle...	180
LCXM	Vestfold...	36, 24	LQC	Buenos Aires...	19.10	ONVA	Anvusville...	34, 24, 18
LCXQ	Su Jas Rose Clark...	36, 27	LQD	Buenos Aires...	17.043	ONWB	Georgette...	180
LCY	Jeloy...	36, 12	LQE	Buenos Aires...	15.463	ONXB	Marguy...	180
LCYZ	Stella Polaria...	36, 24	LQK	Buenos Aires...	27.8	DOC	Coquilhatville, Belg. Congo...	36.42
LCZ	Jeloy...	36, 11	LQL	Buenos Aires...	7.246	DDCB	Director Bulecke...	195
LCZI	Brusen 10...	110	LQM	Buenos Aires...	7.300	DOFA	Samson...	195
LDAH	Tennessee...	36, 27	LQN	Buenos Aires...	25.109	DDG	Fernand Hardyn...	180
LDAL	Thalatta...	33.8	LQO	Buenos Aires...	25.816	DDGB	Elizabethville, Belg. Congo...	35.67
LDAN	Theodore Roosevelt...		LRA	Orkney Is...	14.045	DDIB	Elizabethtville, Belg. Congo...	180
LDDO	Tyr...		LRO	Buenos Aires...	27	OOJB	Bonne Esperance...	180
LDDE	Kosmos 2...	36.8, 33.7, 27.3, 26.3	LSP	Buenos Aires...	138.57	OKK	Jeanne D'Arc...	180
LDGC	Solstraf...	33.6	LSA	Monte Grande...	30.8	OKKB	Leopoldville, Belg. Congo...	31.20
LDGM	Ole Wegger...	36, 27	LSB	Monte Grande...		OL	Elisa...	180
LDGQ	Dagrun...	35.1, 33.7	LSC	Monte Grande...		ODL	Leopoldville, Belg. Congo...	30.41
LDHM	Sando...	35.1, 33.7	LSD	Monte Grande...	33.97	ODM	H. B. L...	180
LDHN	Akkara...	33.7	LSE	Monte Grande...	14.62, 30.802	ODMB	Leopoldville, Belg. Congo...	34.58
LDIB	Skytteren...	35.1, 33.7	LSF	Monte Grande...	15.30	ODNB	Melanie Rachel...	180
LDIM	Taiyim...	31.8	LSG	Buenos Aires...	15.02	ODPB	Maria Maurice...	180
LDIN	Templar...	36, 27	LSH	Monte Grande...	14.5	ODRB	Providentia...	180
LDIQ	Egero...	35.1, 33.7	LSI	Monte Grande...	20	OOS	May...	180
LDIY	Tai Ping...	33.8	LSJ	Buenos Aires...	82.45	OODS	Roger Henri...	180
LDJP	Hudd 3...	35.1, 33.7, 27.3, 26.3	LSK	Buenos Aires...	20	OOT	Stanleyville, Belg. Congo...	34.30
LDKS	Kosmos...	35.1, 33.7, 27.3, 26.3	LSL	Buenos Aires...	37.969, 29.126	OOTB	Prince Charles...	180
LDLI	Raavik...	36, 27	LSM	Buenos Aires...	20.13, 20.69, 15.87,	OOU	Stanleyville, Belg. Congo...	30.94
LDLN	Storas...		LSN	Buenos Aires...	14.18, 14.10, 13.41	OOUB	Princess J. Charloote...	180
LDMD	Solgiunt...	36, 27		Buenos Aires...	18.87, 18.83, 15.27,	OOWB	Stanleyville, Belg. Congo...	32.45
LDMQ	Arna...	35.1, 33.7			30.33, 24.61, 20.85	OYB	E. H. 15...	180
LDNB	Tudor...	36, 27			14.27	OYB	Albatros...	180
LDNE	Bisca...	36		Buenos Aires...	52.61	OYB	Sophie Francois...	180
LDNV	South Africa...	35.1, 33.7		Buenos Aires...	15.82	OYB	N. D. du Pupet...	180
LOOB	Thermophila...	36, 27		Buenos Aires...	22.14	OPAB	Andre Marcel...	180
LDQI	Minister Wedel...	35.1, 33.7		Buenos Aires...	32.93	OPC	Agnelle Emile...	180
LDOK	Silva...			Buenos Aires...	26.71	OPCA	Coquillatville, Belg. Congo...	17.49
LOPE	Skudd 5...	35.1, 33.7		Buenos Aires...	44.58, 26.71	OPDB	Mathilde...	180
LDPL	Velma...	35.1, 33.7		Buenos Aires...	30.48, 26.71	OPEA	Maria Ludevica...	180
LDPO	Thorshaon...	35.1, 33.7, 27.3, 26.3		Monte Grande...	28.99	OPEB	Elizabethville...	34, 24, 18
LDPP	Thorsholm...	35.1, 33.7, 27.3, 26.3		Monte Grande...	14.49	OPGB	Basile Georges...	180
LDQE	Bouvet 1...	35.1, 33.7		Monte Grande...	27.17	OPHB	Gabriella...	180
LDQQ	Nore...	36, 27		Guatemala City...		OPL	Helipolis...	36.5, 26.80, 17.81
LDQR	Norfold...	36, 27		Buenos Aires...	110.63.03, 55.99, 34.01	OPM	Leopoldville, Belg. Congo...	14.97
LDQS	Novvinn...	36, 27				OPMB	Leopoldville, Belg. Congo...	29.50
LDQT	Norbis...	36, 27				OPTA	Joseph Marcel...	180
LOQU	Vigdis...	36, 27				OPTB	Trins Boudejin...	180
LDQX	Vestvangelen...	35.1, 33.7, 27.3, 26.3				OPUB	Brussels Airport...	45
LDRK	Austvangelen...	36.8, 33.7, 27.3, 26.3				OPWB	Lindbergh HI...	180
LDRM	Troja...	36, 27				OPXB	Albert Madeline...	180
LDRZ	Haja Rindsch...					OPRB	Cataliny...	180
LDSS	Havdert...	60, 30				OPSB	Raphael Gabrielle...	180
LDSD	Norden...	35.1, 33.7				OPTA	Thysville...	34, 24, 18
LDSP	Korsbik...	27.3, 26.3				OPTB	Raphael Georges...	180
LDSQ	Fjordlaas...	35.1, 33.7				OPUB	Frana Legein...	180
LDSR	Vardaas...	35.1, 33.7				OPWB	Neptune...	180
LDST	Svend Foyn...	36, 24				OPXB	Reinades Anges...	180
LDVA	Pontos...	36, 27				OPTB	Angelus...	180
LDW	Fauske...					OPQ	Bertha Lind...	180
LECA	Svend Foyn 2...	35.1, 33.7, 27.3, 26.3				OPQ	Rigoma, Belg. Congo...	49.46, 38.88, 22.05
LEHM	Vialehari...	36, 27				OPQ	Bumba, Belg. Congo...	44.47, 37.05, 24.82
LFBA	Bergensfjord...	36, 27				OPQ	Coquilatville, Belg. Congo...	45.25, 33.46, 24.39, 17.49
LFSA	Stavangerfjord...	36, 27				OPQ		
LGB	Bergar...	36.71, 26.90, 18.10				OPQ		
LGF	Fauske...	47.5, 30				OPQ		
LGJ	Jeloy...	45.8, 37.5, 26.9, 23.75				OPQ		
LGN	Bergen...	30				OPQ		
LGN	Bergen...	35.93, 27.15, 18.20				OPQ		
LGS	Svalbard...	39, 32.5, 25.98				OPQ		
LHIA	Sudero...	35.1, 33.7				OPQ		
LMB	Bergen...	104, 43				OPQ		
LMJ	Jan Mayen...	36, 31				OPQ		
LMO	Ost...	106, 50.5				OPQ		
LMT	Toromo...	43				OPQ		
LOA—LVZ ARGENTINA								
LOAD	Almiciente Brown...							
LOAH	Frigata Sarmiento...	36.45						
LOBW	Chaco...	36, 18						
LOC	Formosa...	36						
LOFA	Chudad de Corrientes...	36, 18						
LOFB	Cindad de Concepcion...	36, 18						
LOFO	Astra 111...	72.02, 36						
LOFH	Berna...	36, 18						
LOFL	Bruselas...	72.02, 36, 18						
LOFK	Cludad de Buenos Aires...	36, 18						
LOFM	Ernesto Tornquist...	36, 27						
LOFP	General Alvear...	72.02, 36, 18						
LOFQ	Harpon...	36, 27						
LOGJ	Washington...	36, 18						
LOGO	Cludad de Asuncion...	36, 18						
LOGR	Iguazu...	36, 18						
LOGS	Guayra...	72.02, 36, 18						
LOGV	Triton...	72, 36, 18						
LOGW	General Artigas...	72, 36, 18						
LOK	Buenos Aires...	34.97						
OFA—OGZ OHA—OHZ FINLAND								
OPF	Helsinki...	33.7						
OPR	Helsinki...	131						
OFT	Uto...	111.11						
OHB	Helsinki...	33.7						
OPCQ	Aranda...	80						
OPCW	Suursaari...	80						
OPCHW	Sumen Nelt...	80						
OPCHI	Lappenia...	90						
OPFI	Helsinki...	101						
OPHM	Hanko...	154.6						
OPHQ	Hanko...	102						
	Merinkulkuhallitus...							
QQT	Buta, Belg. Congo...	49.75, 32.19, 24.83						
QQU	Basankusu, Belg. Congo...	49.02, 32.06, 25.08						
QQV	Albertville, Belg. Congo...	45.68, 31.76, 28.15						
QQW	Bandundu, Belg. Congo...	45.42, 37.24, 25.64						
QQX	Kabinda, Belg. Congo...	60.88, 31.20, 23.87						
QQY	Niangan, Belg. Congo...	63.42, 31.07, 22.52						
ORA	Ruysselede...	15.19						
ORAB	Raymond Camiel...	180						
ORB	Ruysselede...	27.15						
ORC	Ruysselede...	38.58						
ORCB	Gonge Jan...	180						
ORDB	Gabrielle Marie...	180						
OREB	Alex Rachet...	180						

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ORFB	General Jacques	180	O XPS	Prins Christian	151	PDO	Kootwijk.	36.7, 36.87
ORG	Ruysselede...	15.625	O XQ	Lyugby...	31.5	PDOO	Dempo.	36, 24
ORH	Elizbethville, Belg. Congo.	15.44	O XQD	Aalberghus...	55, 22.4	PDP	Kootwijk.	32.48, 32.47
ORHB	Hector Franz...	180	O XQF	Freja...	185	PDQ	Kootwijk.	27.3, 27.28
ORJB	Ona Welzijn...	180	O XR	Skamlebak...	23.238	PDR	Kootwijk.	28.038
ORK	Ruysselede...	29.04	O XRE	Olympia.	70, 25	PDS	Kootwijk.	27.94
ORL	Leopoldville, Belg. Congo...	14.56	O XSE	P. N. Damu...	70, 25	PDT	Kootwijk.	40.8
ORLA	Albertville...	34, 24, 18	O XSS	Storebalt...	151	PDV	Kootwijk.	24.89, 24.88, 24.87
ORNB	Germanine Denise...	180	O XT	Skamlebak...	167.038	PDW	Kootwijk.	50.68
ORO	Ruysselede...	15.966	O XU	Zealand...	34.90	PDX	Kootwijk.	32.60
OROB	Roger Denise...	180	O XUA	Sleipner...	75, 22.4	PECC	Flandria...	38, 24
ORP	Ruysselede...	22.78	O XV	Shamlebak...	17.452	PEHI	Gelria...	38, 24
ORPB	Martial Foch...	180	O XVE	Amerika...	70, 25	PEWD	Indrapoero...	38, 24
ORR	Ruysselede...	31.04	O XVS	Kjøbenhavn...	151	PEWZ	Insulinde...	38, 24
ORRB	Madeleine Héritte	180	O XW	Zealand...	53.14, 52.40	PEZP	Jan Pieterszoon...	38, 24
ORS	Stanleyville, Belg. Congo...	14.57	O XWD	Cimbra...	178	PFA	Kootwijk.	16.82
ORSB	Fran Marie...	180	O XWE	Guldborg...		PFB	Kootwijk.	16.47
ORT	Ruysselede...	55.81	O XXB	Nordpol...	70, 25	PFC	Kootwijk.	16.25
ORTA	Kening Albert...	176.5	O XXE	Otto Peterson...	70, 25	PFD	Kootwijk.	18.35, 18.34
ORU			O XY	Lingby...	19.00, 31.60, 49.26,	PFDM	Johan de Witt...	38, 24
ORUB	Maurice Andre...	180	O YD	Dronning Alex...	31.51	PFE	Kootwijk.	16.24, 16.23
ORVB	Van Eyke...	180	O YE	Nordkop...	75, 22.4	PFF	J. van Oldenbaemevel...	38, 24
ORWB	Atlantic...	180	O XZ	Zealand...	80, 30	PFKW	Kootwijk.	14.40, 14.402
ORXB	Anna...	180	O XZE	Bornholm...	30.46, 36.101	PFVA	Koninginder Netherland...	38, 24
ORYB	De Zeeuw...	180	O YA	Eskimoaen...	178	PGA	Marinx V. St. Aldegonde...	38, 24
ORXB	Maria Stella...	180	O YAE	Nordborg...	200, 150, 100, 17	PGB	Kootwijk.	38.314, 38.29
OSAB	Van der Goes...	180	O YB	Eliae...	80, 30	PGC	Kootwijk.	38.787
OSB	Kikvit, Belg. Congo...	45.9, 30.65, 22.21	O YBA	Aaros...	200, 150, 100, 17	PGD	Kootwijk.	32.02, 32
OSC	Boende, Belg. Congo...	49.51, 30.41, 24.96	O YD	Juliemeaha...	75, 22.4	PGDU	Neitje Jacoba...	160
OSCB	Van der Weyden...	180	O YED	Kjøbenhavn...	39.630	PGOB	Oranidea...	36, 24
OSD	Kigale, Belg. Congo...	47.28, 34.42, 23.43	O YF	Holendenghus...	75, 22.4	PGRJ	Patria...	36, 24
OSDB	Cooeteen Bellonte...	180	O YFD	Flynderborg...	32.223	PGSY	Piet Cornelis...	36, 24
OSE	Kanda-Kanda, Belg. Congo...	51.68, 36.76, 23.54	O YGE	E. M. Dalgas...	178	PGVC	Pres. Jan Leis...	160
OSF	Eolo, Belg. Congo...	50, 36.9, 24.27	O YIE	Odin...	60, 20	PGVD	Pres. J. V. Wierdsma...	160
OSFB	Winiped...	180	O YK	Zealand...	200, 150, 100, 17	PGVH	Prins der Nederlanden...	38, 24
OSG	Lulvabourg, Belg. Congo...	52.60, 31.49, 22.81	O YOD	Odense...	75, 22.4	PGVH	Prins der Nederlanden...	38, 24
OSGB	Irene Joseph...	180	O YOE	Bornholm...	50, 30	PGVL	Princes Julian...	157
OSH	Gule, Belg. Congo...	50.42, 34.30, 24.14	O YOP	Thorshava...	38.91, 36.23	PHEG	Rotterdam...	36, 24
OSI	Gale, Belg. Congo...	32.94	O YPD	Odin...	178	PHMD	Amsterdam...	16.88
OSIA	Q' Avenir...	36, 24, 17	O YQE	Sonja...	70, 25	PHMH	Sibajak...	36, 24
OSIB	Irma Alice...	180	O YRE	Aase Marsk...	80, 30	PHMS	Siberie...	157
OSJB	Oceanic...	180	O YSE	Nordhavet...	80, 30	PHO	Simon Bolei...	36, 24
OSK	Kitegi, Belg. Congo...	44.02, 37.95, 23.23	O ZAE	Chr. Sass...	70, 25	PHOB	Haizen...	16.88
OSKB	Julien Marie...	180	O ZBB	Hellig Olav...	75, 22.4	PHSN	Slamat...	36, 24
OSL	Leopoldville, Belg. Congo...	25.22	O ZBE	Nell Marsk...	70, 25	PHWP	Statindam...	197
OSLB	General Liman...	180	O ZCB	Oscar II...	70, 25	PHXF	Tarana...	173, 157
OSMB	Maurice Roger...	180	O ZCE	Dana...	70, 25	PHZU	Tjernai...	36, 24
OSNB	Franz Elsa...	180	O ZDB	United States...	70, 25	PIA	Kijkduin...	187.5
OSPB	Philomina...	180	O ZDD	Ydun...	178	PIB	Brandaris...	187
OSQB	Maria Johanna...	180	O ZEB	Nicoline Marsk...	70, 25	PIC	Scheveningen...	187.5
OSRB	Roger Blone...	180	O ZED	C. F. Tietjen...	72, 32, 178	PIFA	Venezuela...	36, 24
OSSE	Stanleyville, Belg. Congo...	22.65	O ZFD	Osbornholm...	178	PIXB	Zeelandia...	36, 24
OST	Ostend...	180	O ZFE	Europa...	70, 25			
OSUB	Roger Louise...	180	O ZGD	Columbia...	36.45			
OSV	Stanleyville, Belg. Congo...	22.65	O ZHB	Viking...				
OSVB	Onder Ons...	180	O ZHE	TH. Stauning...				
OSWB	Wilde Roos...	180	O ZK	Faroe Islands...				
OSYB	Suzanne...	180	O ZL	Frederik III...				
OSZA	Lindbergh...	178.5	O ZOC	Oregon...				
OTAB	Annie Madeleine...	180	O ZOE	Danmark...				
OTC	Coquihaville, Belg. Congo...	45.21	O ZPE	Arria...				
OTCA	Stephanie...	180	O ZRE	Peter Marsk...				
OTGB	Gabrielle Lucien...	180	O ZTMK	Copenhagen...	32.00			
OTH	Elizabethville, Belg. Congo...	46.7	O Z7RG	Copenhagen...	31.56, 42.12			
OTHB	De Hoop...	180						
OTJB	Brenghel...	180						
OTL	Leopoldville, Belg. Congo...	43.74						
OTLB	Leontine...	180						
OTNB	Patria...	180						
OTPY	Rockall...	180						
OTRB	Stanleyville, Belg. Congo...	43.10						
OTV	Wandelbar...	180						
OTVA	Rust Roest...	178.5						
OTVB	Vierge Marie...	180						
OTW	Westhinder...	180						
OTXB	Hubertine Madeleine...	180						
OTZA	Zinnia...	180						
OUA-OZZ DENMARK								
O XAF	Mangen...	185	PAA	Amsterdam...	47.92, 34.76, 24,			
O XAS	Prinsesse Alexandrine...	151			71.38			
O XB	Blaavand...	184.9	PACE	Arend...	36, 24			
O XBE	Stjerneborg...	52, 34	PACM	Van Galen...	36, 24			
O XBF	Merci...	182	PACN	Nitte de With...	36, 24			
O XBS	Kalundborg...	151	PACP	Van Nes...	36, 24			
O XC	Ringsted...	182	PAHA	Stoomloodboot 21	187.5			
O XCD	Tacoma...	200, 150	PAHB	Stoomloodboot 22	187.5			
O XCF	Irma...	151	PB1	Rotterdam...	96	PKCD	Tredg I...	80
O XCS	Christian IX...	151	PB6	The Hague...	97.4	PKCE	Dredg II...	80
O XDE	Nordfjærer...	52, 24	PB7	Groningen...	97.4	PKCF	Orion...	80
O XDF	Ella...	200, 150	PB8	Rotterdam...	98	PKD	Polkung...	22.94, 32.89
O XDS	Danmark...	151	PB9	Till...		PKEC	Amboina...	29.8, 23.7, 22.5
O XEF	Platissa...	185	PCA	Amsterdam...		PKF	Houtman...	36, 24
O XFF	Vega...	185	PCB	Maas...	187.5	PKG	Palembang...	34.4, 24.45
O XFS	Freza...	151	PCD	Noordhinder...	187.5	PKH	Borneo...	28.84, 22.2
O XGE	Nordborneholt...	200, 150	PCF	Haaks...	187	PKI	Soerabaja...	47
O XGF	Agda...	185	PCG	Terschellingbank...	187.5	PKK	Bengkala Is...	
O XGS	Nyborg...	151	PCJ	Scheveningen...	53, 35.3, 23.5, 22.8	PKM	New Guinea...	39.40
O XHF	Chicago...	185	PCK	Hilversum...	31.28, 19.71	PKP	Rengat Sumatra...	30.21, 39.55, 24.77,
O XHS	Heimdal...	151	PCR	Kootwijk...	28.8, 16.3		24.71, 15.56	
O XIF	Immanuel...	185	PCS	Kootwijk...	38.8, 18.4	PKV	Makasser...	39.06, 35.97, 22.71,
O XJF	Mackenzie...	185	PCSF	Kootwijk...	27.94		22.82	
O XKF	West Bound...	185	PCT	Antje...	173, 157	PKW	Sumatra...	44.52
O XKS	Korsor...	151	PCU	Kootwijk...	40.8, 20.69	PKX	Malabac...	
O XL	Skamlebak...	52.402		Gravenhage...	3 3, 9, 3 6, 21.938,	PKY	Malabac...	
O XLF	Anina...	185	PCV	Kootwijk...	19.967, 1' 5. 9 8 7,	PKSAN	Sourbaya...	70
O XMF	Vestkyrsten...	185	PCW	Kootwijk...	13.393, 44.46	PLA	Malabar Java...	49.7
O XN	Thyboron...	180	PCW X	Balveren...	38, 24	PLD	Tjimini...	
O XNF	Esbjerg...	185	PCX	Kootwijk...	16.60, 28.03, 15.636	PLE	Malabar...	18.8
O XNS	Niels Holst...	151	PCZ	Kootwijk...	38.3, 16.85	PLF	Malabar...	15.93, 15.74
O XOB	Bergenhus...	182, 178	PDI2	Betje...	14.65	PLH	Malabar...	18.8
O XOS	Odin...	151	PDBL	Kootwijk...	173, 157	PLI	Malabar...	20.5
O XPB	Trondhjem...	178	PDK	Kootwijk...	28.82, 28.8	PLK	Malabar...	20.7
		PDKD	Kootwijk...	38, 24	PLL	Malabar...		
		PDL	Kootwijk...	16.82, 14.55	PLL	Bandoeeng...	22.06	
		PDLA	Columbia...	36, 24	PLM	Malabar...	24.46	
		PDM	Kootwijk...	16.182, 38.63	PLN	Bandoeeng...	27.75, 25.3	
		PDMM	Costa Rica...	38, 24	PLO	Bandoeeng...	26.2	
					PLP	Malabar...	27.3	
					PLQ	Malabar...	28.09	
					PLR	Bandoeeng...	28.82, 27.88	
					PLS	Tjililin...	28.94	
					PLU	Malabar...	30.487	
					PLV	Malabar...	31.87, 31.86	

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PLW	Malabar	36.92	PQR	Rio Branco, Acre.	38.37	PREC	Sao Paulo.	38.71
PLX	Malabar	11.44	PQRA	Rio Branco Acre.	37.15	PRED	Dios Corregos.	38.41
PLY	Malabar	12.6	PQRC	Rio Branco Acre.	20.33	PREE	San Carlos.	38.41
PLZ	Malabar	13.04	PQRD	Rio Branco Acre.	14.53	PREG	S. Carlos.	38.57
PMA	Malabar	15.54, 16.48	PQSA	Santarem.	97.7	PREH	Garca.	
PMB	Malabar	14.59	PQSB	Santarem.	40.677	PREI	Jahu.	
PMC	Tjimindi.	16.56, 16.53	PQSC	Santarem.	22.404	PREJ	Pederneiras.	
PMD	Malabar	37.5	PQSD	Santarem.	20.29	PREK	Campinas.	38.45
PME	Malabar	38.11	PQTA	Tarauaca.	97.4	PREL	Bauru.	
PMF	Malabar	39.93	PQTB	Tarauaca.	27.57	PREM	Rio Clara.	
PMG	Malabar	40.22, 40.18	PQTC	Tarauaca.	26.249	PRF	Marlia.	38.87
PMH	Malabar	44.64	PQU	Itatuba.	96.64	PRFA	Fortaleza.	62.37
PMI	Tjilin.	51	PQUA	Itatuba Para.	41.509	PRFB	Florianopolis.	44.71
PMW	Riouw Is.	40.76, 32.12	PQUB	Itatuba Para.	38.88	PRFC	Florianopolis.	44.06
PNX	Degoei	26.95	PQUC	Itatuba Para.	20.08	PRFD	Florianopolis.	30.89
POV	Bintang Is.	100, 50.7	PQVA	Porto Velho.	44.49	PRFE	Florianopolis.	23.22
POW	Sumatra	100, 70.6, 50.7	PQVB	Porto Velho.	32.12	PRFF	Florianopolis.	146.3
POZ	Beraoe Borneo.	37.08	PQVC	Porto Velho.	20.04	PRFG	S. Gabriel.	76.8
PPA—PYZ BRAZIL								
PPD	Recife	83.4	PQW	Altamira Para.	38	PRFI	Corumba.	22.87
PPE	Rio de Janeiro.	34.4	PQWA	Altamira Para.	19.93	PRFJ	Pelotas.	139.6
PPG	Rio de Janeiro.	83.3	PQWB	Xapuri.	95.89	PRFK	Rio de Janeiro.	40.84, 38.12, 26.8
PPH	Sepetiba.	25.146	PQXA	Xapuri.	22.865	PRFL	Livramento.	76.8
PPJ	Pernambuco.	83.4	PQXB	Xapuri.	19.907	PRFN	Rio de Janeiro.	25.01
PPK	Porto Alegre.	83.4	PQXC	Xapuri.	95.38	PRFO	Rio de Janeiro.	27.78
PPM	Sepetiba.	29.06	PQY	Araguaya.	38	PRG	Fortaleza.	54.446
PPN	Natal Norte.	83.4	PQYA	Araguaya.	38.85	PRGA	Avenida Rio de Janeiro.	83.4
PPO	Olinda.	62.25, 54.35, 27.21	PQYB	Araguaya.	27.829	PRGB	Bahia.	83
PPP	Pelotas.	83.4	PQYC	Araguaya.	18.88	PRGC	Bahia.	83.4
PPU	Sepetiba.	15.575	PQYD	Araguaya.	94.8	PRGF	Florianopolis.	83.4, 75, 35, 34.48
PPV	Sepetiba.	21.818	PQZ	Soure. Para.	42.976	PRGI	Fernando de Noronha.	83.4
PPW	Sepetiba.	27.62	PQZA	Soure.	34.92	PRGK	Porto Alegre.	83.3
PPX	Sepetiba.	14.47	PQZB	Soure.	19.51	PRGM	Maceio.	83.4
PPX2	Sepetiba.	43	PQZC	Soure.	61.86	PRGN	Natal, Norte.	83.4
PPZ	Recife.	16.515	PRA	Porto Alegre.	60.97	PRGP	Pelotas.	83.4
PQA	Bocacao Acre.	106.4	PRB	Rio de Janeiro.	160	PRGR	Recife.	83.4
PQAB	Bocacao Acre.	50.89	PRBD	Joao Pessoa.	160	PRGS	Santos.	83.4
PQAC	Bocacao Acre.	34.09	PRBE	Campina Grande.	160	PRGV	Victoria.	83.4
PQAD	Bocacao Acre.	21.731	PRBF	North Natal.	160	PRH	Fortaleza.	27.22
PQB	Belem. Para.	105.7	PRBH	Joao Pessoa.	70.1	PRI	Iguassu.	82.12
PQBA	Belem. Para.	56.39	PRBI	Campina Grande.	70.1	PRIA	Iguassu.	76
PQBB	Belem. Para.	43.73	PRBJ	Recife.	70.1	PRIB	Iguassu.	31.76
PQBC	Belem. Para.	37.593	PRBK	Rio Branco.	70.1	PRIC	Iguassu.	18.99
PQBD	Belem. Para.	35	PEBL	Limeiro.	70.1	PRID	Iguassu.	33.58
PQBE	Belem. Para.	32.868	PRBM	Caruaru.	70.1	PRIE	Cachoeira.	86.8
PQBF	Belem. Para.	28.89	PRBN	Granbums.	70.1	PRIF	Niteroy.	81.08
PQBG	Belem. Para.	27.27	PRBO	Rio de Janeiro.	170	PRIG	Niteroy.	38.61
PQBH	Belem. Para.	21.708	PRBP	Rio de Janeiro.	170	PRIH	Niteroy.	27.397
PQCA	Cruzeiro.	105.3	PRBQ	Recife.	63.02	PRII	Niteroy.	22.03
PQCB	Cruzeiro.	21.69	PRBR	Seria Grande.	63.02	PRIJ	Recife.	15.584
PQCC	Cruzeiro.	20.43	PRBS	Rio de Janeiro.	27.3	PRIK	Recife.	14.45
PQD	Teffe.	104.9	PRBT	Porto Alegre.	28.45	PRL	Cachoeira.	56.3
PQDA	Teffe.	37.45	PRBU	Belem.	28.45	PRIM	Cachoeira.	32.68
PQDB	Teffe.	24.732	PRBV	Campina Grande.	80	PRIN	Cachoeira.	24.54
PQDC	Teffe.	21.883	PRBW	Recife.	80	PRIQ	S. Paulo.	41.041
PQE	Maues.	104.8	PRBX	Natal Norte.	80	PRIQ	S. Paulo.	37.5
PQEA	Maues.	50.406	PRBY	S. Paulo.	83	PRIR	S. Paulo.	33.78
PQEB	Maues.	38.496	PRBZ	S. Vincente.	83	PRI	S. Paulo.	27.78
PQEC	Maues.	33.078	PRC	Rio de Janeiro.	54.06	PRT	S. Paulo.	22.935
PQED	Maues.	21.806	PRCA	Corumba.	105.8	PRIU	Recife.	44.31
PQFB	Joao Priscos.	104.2	PRCB	Corumba.	42.92	PRIV	Recife.	43.103
PQFC	Joao Pessos.	21.567	PRCC	Corumba.	23.37	PRIW	Recife.	31.03
PQG	S. Gabriel Amazonas.	103.8	PRCD	Porto Alegre.	44.84	PRIX	Recife.	27.6
PQGA	S. Gabriel.	43.988	PRCE	Porto Alegre.	29.296	PRIY	Recife.	27.6
PQGB	S. Gabriel.	31.12	PRCF	Porto Alegre.	23.36	PRIZ	Recife.	22.97
PQGC	S. Gabriel.	21.51	PRCG	Porto Alegre.	14.59	PRJ	Theresina.	54.25
PQH	Humayta.	103.5	PRCH	Porto Alegre.	149.3	PRJA	Rio de Janeiro.	76
PQHA	Humayta.	60.2	PRCI	Rio de Janeiro.	147.8	PRJB	Bauru.	57.91
PQHB	Humayta.	38.241	PRCJ	Rio de Janeiro.	44.94	PRJE	Rio Preto.	61.24
PQI	Beuna Vista.	174	PRCK	Rio de Janeiro.	44.09	PRJH	Bahia.	76
PQIA	Amazonas.	103.1	PRCL	Rio de Janeiro.	35.05	PRJL	Bahia.	34.88
PQIB	Amazonas.	37.93	PRCM	Rio de Janeiro.	34.965	PRJM	Caravellas.	76
PQIC	Amazonas.	20.82	PRCN	Rio de Janeiro.	28.45	PRJN	Caravellas.	34.88
PQJ	Benjamin Constant.	174	PRCO	Rio de Janeiro.	25	PRJO	Rio de Janeiro.	24.88
PQJA	Minas Gerases.	102.7	PRCP	Rio de Janeiro.	22.59	PRQJ	Fernando de Noronha.	76
PQJB	Minas Gerases.	37.807	PRCQ	Rio de Janeiro.	22	PRJS	Fernando de Noronha.	34.88
PQJC	Minas Gerases.	20.804	PRCR	Rio de Janeiro.	21.645	PRJT	Fernando de Noronha.	34.48
PQK	Maraba.	102.24	PRCS	Rio de Janeiro.	21.24	PRJU	Rio de Janeiro.	76
PQKA	Maraba.	38	PRCT	Rio de Janeiro.	20.006	PRJW	Florianopolis.	75
PQKB	Maraba.	37.77	PRCU	Rio de Janeiro.	19.48	PRJX	Florianopolis.	34.88
PQKC	Maraba.	20.768	PRCV	Rio de Janeiro.	19.32	PRKY	Florianopolis.	24.49
PQLB	Labrea.	101.7	PRCW	Rio de Janeiro.	15.457	PRK	Florianopolis.	27.13
PQLC	Labrea.	37.735	PRCX	Rio de Janeiro.	14.23	PRKA	Maceio.	75
PQLD	Labrea.	20.71	PRCY	Rio de Janeiro.	63.56	PRKD	Maceio.	34.88
PQLE	Labrea.	20.134	PRDZ	Gaya.	33.04	PRKE	Natal Norte.	75
PQM	Manaos.	100.5	PRD	Rio de Janeiro.	36.10	PRKF	Natal Norte.	34.88
PQMA	Manaos.	51.107	PROA	Fortaleza.	44.08	PRKL	Natal Norte.	34.48
PQMB	Manaos.	42.887	PRDB	Fortaleza.	27.9	PRKM	Pelotas.	76
PQMC	Manaos.	37.57	PRDC	Fortaleza.	23.264	PRKO	Pelotas.	34.88
PQMD	Manaos.	28.195	PRDD	Fortaleza.	147	PRKP	Pelotas.	34.48
PQME	Manaos.	29.68	PRDF	Paranagua.	43.96	PRKQ	Porto Alegre.	76
PQMF	Manaos.	14.49	PRDG	Paranagua.	31.712	PRKS	Porto Alegre.	34.88
PQMG	Manaos.	14.39	PRDH	Paranagua.	23.17	PRKT	Porto Alegre.	34.48
PQHA	Senna.	99.67	PRDI	Paranagua.	146.5	PRKY	Recife.	34.88
PQHB	Senna.	44.28	PRDJ	Bello Horizonte.	43.77	PRKZ	Recife.	34.48
PQNC	Senna.	37.45	PRDK	Bello Horizonte.	32.26	PRK	Victoria.	61.98
PQND	Senna.	29.63	PRDL	Bello Horizonte.	28.638	PRLA	Sepetiba.	25.93
POO	Alacobaca.	160, 39.35, 37.38,	PRDM	Maceio.	30.87	PRLB	Sao Paulo.	50.6
PQOA	Alacobaca.	20.55	PRDN	Natal, Norte.	24.74	PRLC	S. Paulo.	37.735
PQOB	Alacobaca.	39.34	PRDO	Mossoro.	43.509	PRLD	S. Paulo.	28.195
PQOC	Alacobaca.	37.38	PRDP	Mossoro.	34	PRLF	Sepetiba.	51.87
PQOD	Alacobaca.	37.24	PRDQ	Mossoro.	23.09	PRLG	Sepetiba.	25.93
PQOE	Alacobaca.	20.55	PRDR	Mossoro.	143.6	PRLL	Recife.	133.4
PQPF	S. Paulo de Olivencia.	99.02	PRDS	Natal, Norte.	43.42	PRLM	Recife.	14.09
PQPA	S. Paulo de Olivencia.	45.045	PRDT	Natal, Norte.	39.3			44.12
PQPB	S. Paulo de Olivencia.	37.29	PRDU	Natal, Norte.	38.12			
PQPC	S. Paulo de Olivencia.	29.478	PRDV	Natal, Norte.	34			
PQPD	Livramento.	86.09	PRDW	Natal, Norte.	29.59			
PQPE	Livramento.	32.19	PRDX	Natal, Norte.	23.04			
PQPF	Livramento.	24.71	PRDY	Natal, Norte.	143.9			
PQPH	Campinas.	85.47	PRDZ	Bello Horizonte.	144.9			
PQPI	Campinas.	32.05	PRE	Rio de Janeiro.	27.08			
PQPJ	Campinas.	24.77	PREA	Araraqua.	38.47			
PQQ	Campinas.	98.89, 45.98, 37.24,	PREB	Duartina.				
	Caruaruy.	20.43						

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PRLN	Bahia	30.00	PRRO	Rio de Janeiro	65.84	PSABI	Guanabara	
PRLO	Bahia	25.8	PRRV	Boa Vista	38	PSACB	Ypiranga	
PRLP	Bahia	23.31	PRS	Salinas	54.545	PSB	Marapicu	16.78
PRLQ	Bahia	148.5	PRSA	Porto Alegre	97.4	PSC	Marapicu	16.09
PRLR	Lages	44.71	PRSB	Bahia	97.41	PSD	Marapicu	19.907
PRLS	Lages	43.668	PRSC	Bahia	53.47	PSE	Marapicu	20.06
PRLT	Lages	25.188	PRSD	Bahia	33.73	PSF	Marapicu	20.43
PRLU	Lages	144.2	PRSE	Bahia	24.05	PSG	Marapicu	27.881
PRLV	S. Francisco	44.71	PRSF	Porto Alegre	53.47	PSH	Marapicu	29.354
PRLW	S. Francisco	43.2	PRSG	Porto Alegre	33.73	PSI	Marapicu	29.64
PRLX	S. Francisco	23.01	PRSH	Porto Alegre	24.05	PSJ	Marapicu	31.06
PRLY	S. Francisco	142.2	PRSL	Belem	97.41	PSK	Marapicu	36.85
PRM	Victoria	54.15	PRSM	Belem Para	53.47	PSL	Marapicu	37.807
PRMA	Rio de Janeiro	50.4	PRSN	Belem Para	33.73	PSM	Recife	51.68
PRMB	Barbacena	50.2	PRSO	Belem Para	24.05	PSX	Sepeiba	14.39
PRMC	Carangola	50.2	PRSP	Rio de Janeiro	24.05	PSY	Sepeiba	43.59
PRMD	Diamantina	50.2	PRSQ	Rio de Janeiro	33.73	PSZ	Sepeiba	38.56
PRME	Jamunaria	50.4	PRSR	Rio de Janeiro	97.41	PTA	Rio de Janeiro	75.57
PRMF	S. Sebastiao	50.4	PRSS	Rio de Janeiro	53.47	PTAB	Oidores	63.12
PRMG	Uberaba	50.335	PRST	Fortaleza	97.41	PTAC	Obidos Para	69.53
PRMH	Bello Horizonte	50.5	PRSU	Fortaleza	53.47	PTAD	Obidos Para	25.782
PRMI	Pirapora	50.5	PRSV	Fortaleza	33.73	PTAF	Itajieba	69.05
PRMJ	Juiz do Fora	50.5	PRSW	Fortaleza	24.05	PTAG	Paleao (Rio)	68.97
PRMK	Pocos de Caldas	50.5	PRSY	Bahia	34.883	PTAH	Bello Horizonte	68.82
PRML	Paracatu	50.5	PRSZ	Paramagua	34.49	PTAI	Cacaapara	68.54
PRMM	Oliveria	50.50	PRT	Salinas	27.247	PTAJ	Ipamery	70.05
PRMP	Bello Horizonte	50.7	PRTA	Victoria	34.88	PTTAL	Bella Vista	68.19
PRMW	Bello Horizonte	50	PRTB	Victoria	34.48	PTAN	Ponta Para	67.95
PRMX	Rio de Janeiro	50.167	PRTX	Portatil	32.22, 32.12, 32	PTAO	S. Paulo	67.88
PRMZ	Poco de Caldos	50.335	PRTY	Portatil	32.22, 32.12, 32	PTAP	Rio de Janeiro	67.7
PRN	Victoria	27.1	PRTZ	Portatil	32.22, 32.12, 32	PTAR	Governor Petropolis	76.43
PRNA	Dom Pedro (Rio)	67.27	PRU	Florianopolis	61.35	PTB	Belem, Para	75.38
PRNB	Bello Horizonte	37.08	PRUA	Aracatuba	33.34	PTBA	Rio de Janeiro	63.89
PRNC	Corynthe	66.96	PRUB	Bauru	33.34	PTBB	Rio de Janeiro	64.744
PRND	Sao Paulo	66.82	PRUC	Sao Paulo	33.34	PTBD	Rio de Janeiro	63.56
PRNE	Carro 18A	36.9	PRUD	Boutucatu	33.34	PTBE	Rio de Janeiro	67.81
PRNF	Carro 20A	36.9	PRUE	Prez. of Brazil	33.34	PTBF	Rio de Janeiro	63.3
PRNG	Portatil	36.9	PRUF	Ribeirao	33.34	PTBH	Rio de Janeiro	59.17
PRNH	Portatil	36.9	PRUG	Sao Paulo	33.34	PTBJ	Rio de Janeiro	63.16
PRNI	Ibia	40.63	PRUH	S. Paulo	33.34	PTBK	Rio de Janeiro	58.94
PRNJ	S. Joao D' El Rey	40.99	PRUI	Sao Paulo	33.34	PTBL	Santos	58.82
PRNK	Barra do Piraby	36.83	PRUJ	Rio Preto	33.34	PTBM	Rio de Janeiro	63.02
PRNL	Bello Horizonte	38.95, 36.74	PRUK	Araraquara	33.34	PTBN	Rio de Janeiro	59.76
PRNM	Monte Claros	36.74	PRUL	Itarare	33.34, 33.67, 33.04	PTBO	Itajuba	59.65
PRNO	S. Paulo Norte	37.17	PRUR	President of Brazil	33.37	PTBP	Ipamery Goyaz	62.89
PRNR	Ribeirao Vermelho	40.84	PRUS	Ribeirao Preto	33.37	PTBQ	Ipamery Goyaz	25.696
PRNS	Carro 9A	36.9	PRUT	S. Paulo	33.37	PTBR	Jo Pessoa	26.304
PRNT	Lafayette	36.78	PRUU	Asis, Sao Paulo	33.37	PTBS	S. Paulo	62.77
PRNU	Carro 10A	36.9	PRUV	Sao Paulo	33.37	PTBT	S. Paulo	60.37
PRNV	Corynthe	65.65	PRUQ	Botucatu	33.37	PTBU	Cacaapara	60.12
PRNW	Corynthe	37.27	PRUR	President of Brazil	33.37	PTBV	Peterpolis	62.63
PRNX	S. Paulo	36.74	PRUS	Ribeirao Preto	33.37	PTBX	Rio de Janeiro	60.5
PRNY	Army	36.97	PRUT	S. Paulo	33.37	PTBY	Rio de Janeiro	25.66
PRNZ	Rio de Janeiro	36.6	PRUU	Asis, Sao Paulo	33.37	PTBZ	Cacaapara	25.706
PRO	Olindo	62.24	PRUV	Sao Paulo	33.37	PTC	S. Cruz (Rio)	75.19
PROA	Rio de Janeiro	27.52	PRUW	Rio Preto	33.37	PTCA	Bello Horizonte	59.38
PROB	Itajahy	27.5	PRUX	Araraquara	33.37	PTCB	Bello Horizonte	25.72
PROC	Recife	27.5	PRUY	Itarare, Sao Paulo	33.37	PTCD	Bella Vista	25.68
PROD	Rio de Janeiro	35	PRUZ	Cruzeiro	33.37	PTCE	Cuyaba	16.17
PROF	Rio de Janeiro	39.3	PRV	Florianopolis	33.36	PTCG	Cuba	59.40
PROG	Laguna	84.87	PRVA	Aracatuba	33.04	PTCH	Curityba	25.84
PROI	Ibia	40.63	PRVB	Bauru, Sao Paulo	33.04	PTCI	Curityba	59.29
PROJ	S. Joao D' El Rey	40.98	PRVC	S. Paulo	33.04	PTCJ	Curityba	25.906
PROK	S. Joao	40.468	PRUD	Botucatu	33.04	PTCL	Corumba	59.06
PROL	Bello Horizonte	38.95	PRVE	Sao Paulo	33.04	PTCM	Corumba	25.96
PROM	Baria	38.38	PRVF	Ribeirao Preto	33.04	PTCO	Bahia	58.6
PROO	Formiga	40.65	PRVG	S. Paulo	33.04	PTCP	Bahia	22.06
PROQ	Bello Horizonte	38.74	PRVH	Asis, Sao Paulo	33.04	PTCR	Recife	58.48
PROR	Ribeirao	40.84	PRVI	Sao Paulo	33.04	PTCS	Recife	26.09
PROW	Rio de Janeiro	40.47	PRVJ	Rio Preto	33.04	PTCT	Recife	16.56
PRP	Oinda	54.35	PRVK	Araraquara	33.04	PTCV	Rio de Janeiro	68.37
PRPA	Rio de Janeiro	96.308	PRVL	Itarare, Sao Paulo	33.04	PTCW	Rio de Janeiro	18.821
PRPB	Porto Alegre	96.318	PRUM	Cruzeiro	33.04	PTCX	Rio de Janeiro	14.521
PRPC	Porto Alegre	52.35	PRW	Florianopolis	26.98	PTD	Florianopolis	75
PRPD	Porto Alegre	34.863	PRWA	Taubate	52.447	PTDA	Victoria	58.14
PRPE	Rio de Janeiro	52.35	PRWB	Taubate	84.27	PTDB	Victoria	26.246
PRPF	Rio de Janeiro	34.863	PRWF	Ourem Para	80.65	PTDD	St. Luiz	57.92
PRPG	Rio de Janeiro	27.52	PRWG	Ourem Para	38.97	PTDE	S. Luiz	27.347
PRPH	Bahia	96.308	PRWH	Ourem Para	29.354	PTDF	S. Luis do Maranhao	16.74
PRPI	Bahia	52.35	PRWI	Parintins	80.86	PTDG	Rio de Janeiro	55.46
PRPN	Natal Norte	96.308	PRWK	Parintins	50.977	PTDH	Rio de Janeiro	28.329
PRPP	Parangua	96.308	PRWL	Parintins	25.41	PTDI	Rio de Janeiro	25.09
PRPQ	Parangua	52.35	PRWM	Parintins	23	PTDJ	Rio de Janeiro	17.28
PRPR	Recife	33.48	PRWN	Victoria Piaui	33.48	PTDK	Rio de Janeiro	17.2
PRPT	Santos	33.18	PRWO	Crato Ceara	33.44	PTDM	Belem Para	26.3
PRPU	Santos	27.3	PRWP	Victoria Piaui	88.89	PTDN	Belem Para	23.12
PRPX	Santos	22.55	PRWR	Crato Ceara	18.767	PTDO	Belem Para	17.05
PRPY	Natal Norte	52.35	PRWS	Crato Ceara	88.62	PTDP	Belem Para	16.92
PRPZ	Natal Norte	34.863	PRWT	Porto Esperanca	33.22	PTDQ	Porto Alegre	25.99
PRQ	Natal Norte	25.86	PRWU	Porto Esperanca	18.59	PTDR	Porto Alegre	16.34
PRQ	Olinda	27.19	PRWV	Porto Esperanca	88.10	PTDS	Florianopolis	52.248
PRQA	Florianopolis	33.9	PRWW	Curetyha	31.25	PTDT	Florianopolis	27.8
PRQB	Porto Uniao	33.70	PRWX	Curetyha	22.82	PTDU	Florianopolis	18.945
PRQC	Herval	33.17	PRWY	Curetyha	138.2	PTDW	Peterpolis	60.506
PRQD	Joao Pissu	51.68	PRX	Santos	61.61	PTDX	Juiz de Fora	27.42
PRQE	Espirito Santo	52.22	PRY	Santos	60.851	PTDZ	Nitheroy	27.935
PRQF	Floris	30.52	PRYA	Rio de Janeiro	33.94	PTEH	Sorena Sao Paulo	74.63
PRQG	Princeza	62.35	PRYB	Bahia	33.94	PTEI	Sorena Sao Paulo	54.844
PRQH	Patos	62.45	PRYC	Mocanque Rio	70	PTEL	S. Paulo	58.26
PRQI	Parahyba	52.04	PRYD	Rio de Janeiro	70	PTEA	Fortaleza	55.04
PRQJ	Parahyba	52.35	PRYS	Santos Sao Paulo	33.94	PTEB	Fortaleza	27.75
PRQK	Parahyba	52.22	PRZ	Santos	53.95	PTED	Campo Grande	54.95
PRQS	S. Jose do Egypto	30.53	PRZA	Jouzerio Bahia	25.74	PTEE	Campo Grande	27.68
PRQT	Triumpho	31.12	PRZB	Jouzerio Bahia	18.42	PTEG	Santos	25.07
PRQV	Villa de Conceicao	52.04	PRZC	Jouzerio Bahia	97.53	PTEH	Sorena Sao Paulo	64.844
PRR	Salinas	62.49	PSA	Marapicu	14.23	PTEI	Sorena Sao Paulo	27.726
PRRA	Thome	52.91	PSABA	Rio de Janeiro		PTEL	S. Paulo	58.26
PRRB	Belem Para	52.91	PSAB	Sao Paulo		PTEM	S. Paulo	26.18
PRRC	Rio de Janeiro	28.60	PSABC	Miami		PTEO	Ponta Para	25.67
PRRD	Bahia	28.60	PSABD	Porto Alegre		PTEP	Ponta Para	16.27
PRRF	S. Paulo Norte	65.5	PSABE	Argentina		PTEF	Fortaleza	74.26
PRRJ	Belem Para	44.06	PSABF	P-BDAC		PTG	Campo Grande	74.08
PRRK	Thome Assu	44.06				PTH	Lorenz	73.89
PRRK	Belem	38				PTJ	Fortaleza de S. Joao	73.34

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
PTK	Juiz de Fora	73.18	PVOD	Urbanopolis	19.163	POWB	Rio de Janeiro	56.08
PTL	Fortaleza Sage, Rio de Janeiro	73	PVR	Faro Para.	41.1	PWOC	Rio de Janeiro	48.465
PTM	S. Luis do Maranhao	72.3	PVS	S. Miguel	38.02	PWOD	Rio de Janeiro	24.213
PTN	Parahyba	71.94	PVT	Floriano.	91.51	PWP	Natal Norte	28.94
PTO	Victoria Espirito Santo	71.78	PVTA	Floriano.	76.2	PWQ	Natal Norte	26.549
PTP	S. Paulo	71.51	PVTB	Floriano.	34.27	PWQA	Anhatomirim	56.26
PTQ	Quartel General. Rio de Janeiro.	71.27	PVTC	Floriano.	19.19	PWQB	Anhatomirim	47.85
PTR	Recife	71.10	PVU	Manacapuru	90.50	PWQC	Anhatomirim	25.06
PTS	Bahia	70.93	PVUA	Manacapuru	74.5	PWQD	Anhatomirim	23.97
PTT	Porto Alegre	70.1	PVUB	Manacapuru	33.88	PXA	Governador	78.13
PTU	Santos	70.1	PVUC	Manacapuru	19.98	PXB	Belem Para.	80
PTV	Villa Militar, Rio de Janeiro	69.78	PVVA	Arumanduba	82.17	PXC	Rio de Janeiro Centro de Aviacuo	77.32
PTW	Corumba, Matto Gross	69.66	PVVB	Arumanduba	37	PXD	Estado Major, Rio de Janeiro	77.12
PTX	Sande Gueria, Rio de Janeiro	69.5	PVVC	Arumanduba	34.34	PXE	Ecola de Grumetea	79.36
PTY	Curetyha	69.45	PVVD	Arumanduba	19.21	PXG	Rio de Janeiro	78.93
PTZ	Cuyaba	69.29	PVW	Fonte Boa	90.78	PXH	Mocangue Rio.	80.22, 53.87, 50.58, 29.24, 28.84
PUA	Santos	27.06	PVWA	Fonte Boa	76.4	PXI	Willegaignon	70.34
PUAD	Almirante Jaceguay		PVWB	Fonte Boa	46.99	PXJ	Bijo (Rio de Janeiro)	70.53
PUB	Juncacao	61.22	PVWC	Fonte Boa	34.09	PXL	Rio de Janeiro Bay	77.52
PUC	Juncacao	60.728	PVWD	Fonte Boa	19.14	PXM	S. Luis de Maranhao	78.74
PUD	Juncacao	53.78	PVX	Cachoeira.	51.56	PXO	Armacao	77.72
PUE	Barra, Bahia	135.8, 40.41, 22.51	PVY	Igarape Miry.	38.88	PXP	Florianopolis	78.95, 57.7, 53.28, 29.06, 26.65
PUF	Formiga	32.79, 24.5	PVZ	Boca Vista Para.	80.22	PXPB	Florianopolis	70.95
PG	Bahia	98.8, 55.8, 32.68, 24.54	PVZA	Boca Vista Para	50.67	PXQ	Rio Grande	75.78
PUH	Carolina	86.59, 32.57, 24.60	PVZB	S. Isabel	29.3	PXR	Raza (Isle) Rio de Janeiro	70.73
PUI	Ilheos	135.2, 40.27, 22.32	PVZI	S. Isabel	80.43	PXS	Santos	75.95
PUJ	Joinville	86.34, 32.33, 24.65	PVZJ	Fernando de Noronha	79.16	PXT	Anathomirim	76.14
PUK	Joao Pessoa	134.5, 40.02, 34, 22.23	PWAA	Rio de Janeiro	77.82	PXTL	Fernando de Noronha	75
PUL	Livramento	86.10, 32.19, 24.71	PWAB	Rio de Janeiro	57.03	PYAA	Aquidanana	107.52
PUN	Nitheroy	133.4, 61.11, 39.61, 27.32, 22.03	PWAC	Rio de Janeiro	56.93	PYAB	Aquidanana	43.59
PUO	Sobral	86.55, 39.95, 32.16, 22.116	PWAD	Rio de Janeiro	56.82	PYAC	Aquidanana	29.85
PUP	Passo Fundo	96.33, 84.5, 24.77	PWAE	Rio de Janeiro	28.68	PYAD	Aquidanana	21.82
PUQ	Campinas	85.48, 32.05, 24.78	PWAF	Rio de Janeiro	28.61	PYAE	Pesquino.	21.84
PUR	S. Borja	85.24, 31.82, 24.84	PWAG	Rio de Janeiro	28.59	PYAF	Pesquino.	18.56
PUS	Santos	108.7, 39.56, 21.98	PWAH	Rio de Janeiro	26.408	PYAG	Bage	83.8
PUT	Theophilo.	115.9, 106.3, 21.83	PWAI	Rio de Janeiro	25.146	PYAH	Bage	58.03
PUU	Uberaba	85, 31.85, 24.92	PWAJ	Rio de Janeiro	25.125	PYAI	Bage	52.22
PUV	Porto Murtinho	84.76, 38.27, 24.93	PWAK	Rio de Janeiro	17.482	PYAJ	Bage	30.67
PUW	Parnahyba	84.52, 52.54, 31.06	PWAL	Rio de Janeiro	17.41	PYAL	Campos	83.57
PUX	Taubati	84.28, 52.45	PWAM	Rio de Janeiro	17.341	PYAM	Campos	52.13
PUY	Alto Uruguay	84.04, 52.35, 30.80	PWBA	Fernando de Noronha	53.38	PYAN	Campos	51.24
PUZ	Izazero	107.9, 39.46, 34	PWBB	Belem Para.	53.57	PYAO	Campos	30.55
PUZV	Victor de Fretas	46.15	PWBC	Belem Para.	29.175	PYAQ	S. Maria Sul	82.87
PVA	Brasileia	94.49	PWBD	Belem Para.	28.82	PYAR	S. Maria Sul	61.81
PVAA	Brasileia	51.19	PWBE	Belem Para.	15.78	PYAS	S. Maria Sul	29.97
PVAB	Brasileia	47.49	PWCE	Fernando de Noronha	50.08	PYAZ	Pesquino.	87.91
PVAC	Brasileia	34.82	PWCB	Rio de Janeiro	56.5	PYBA	Goyaz	107.14
PVAD	Brasileia	19.47	PWCC	Rio de Janeiro	48.70	PYBB	Goyaz	31.15
PVAE	Ilheos	135.2	PWCD	Rio de Janeiro	25.06	PYBC	Goyaz	21.778
PVAF	Ilheos	40.27	PWDE	Fernando de Noronha	29.098	PYBF	Uruguayana	82.64
PVAG	Ilheos	22.32	PWDF	Rio de Janeiro	56.29	PYBG	Uruguayana	51.68
PVAI	Joao Pissos	134.5	PWEG	Rio de Janeiro	29.16	PYBH	Uruguayana	29.79
PVAJ	Joao Pissos	40.026	PWEC	Rio de Janeiro	48.62	PYBK	Cachoeiro	82.42
PVAK	Joao Pissos	34	PWED	Rio de Janeiro	28.517	PYBL	Cachoeiro	29.78
PVAL	Joao Pissos	22.238	PWDD	Rio de Janeiro	16.09	PYBM	Cachoeiro	82.2
PVAM	Maceio	133.9	PWDE	Rio de Janeiro	15.37	PYBP	Jaguarao	51.51
PVAN	Maceio	39.95	PWE	Fernando de Noronha	26.69	PYBQ	Jaguarao	28.73
PVAO	Maceio	22.116	PWEA	Rio de Janeiro	53.47	PYBT	Dionysio Cerqueira	106.8
PUB	Borba	94.21	PWEF	Rio de Janeiro	50.25	PYBU	Dionysio Cerqueira	52.04
PUBA	Borba	40.198	PWEC	Rio de Janeiro	29.16	PYBV	Dionysio Cerqueira	44.7
PUBB	Barba	19.43	PWED	Rio de Janeiro	26.74	PYBW	Dionysio Cerqueira	21.75
PVC	Coary	93.46	PWF	Fernando de Noronha	16.025	PYSX	Sobral	85.55
PVCA	Coary	50.85	PWFA	Rio de Janeiro	64.855	PYBY	Sobral	32.15
PVCB	Coary	43.14	PWFB	Rio de Janeiro	56.179	PYC	Fernando de Noronha	34.88
PVC	Coary	45.98	PWFC	Rio de Janeiro	48.543	PYCF	Carolina	56.58
PVCD	Coary	25.4	PWFD	Rio de Janeiro	24.25	PYCG	Carolina	57.525
PVCE	Coury	19.386	PWGA	Abrohos	53.87	PYCH	Carolina	32.57
PVE	Ahaiti	51.90	PWGB	Abrohos	50.59	PYCI	Carolina	24.59
PVF	Villa Feijo	93.17	PWGC	Abrohos	29.24	PYCK	Montenegro	51.41
PVG	Montenegro	81.87	PWGD	Abrohos	28.84	PYCL	Montenegro	29.68
PVH	Caracaraby	81.76	PWPH	S. Luiz de Maranhao	78.33	PYCM	Lazareto	107.9
PVHA	Caracaraby	34.74	PWHA	Rio de Janeiro Bay	64.11	PYCN	Lazareto	44.91
PVHB	Caracaraby	29.64	PWHB	Rio de Janeiro Bay	55.87	PYCD	Lazareto	39.447
PVHG	S. Borja	85.23	PWHC	Rio de Janeiro Bay	47.92	PYCP	Lazareto	34
PVHH	S. Borja	31.91	PWHD	Rio de Janeiro Bay	24.05	PYCQ	Blumenau	137
PVHI	S. Borja	24.834	PWI	S. Luiz de Maranhao	57.14	PYCR	Blumenau	44.71
PVHJ	S. Borja	21.46	PWIA	Rio de Janeiro	64.24	PYCS	Blumenau	22.63
PVHK	Uberaba	84.98	PWIB	Rio de Janeiro	55.97	PYCU	Pelotas	26.86
PVHL	Uberaba	31.85	PWIC	Rio de Janeiro	48.076	PYCV	Barra Bahia	40.41
PVHM	Uberaba	24.92	PWID	Rio de Janeiro	24.12	PYCW	Barra Bahia	29.01
PVI	Itacotitani	81.52	PWJ	S. Luiz de Maranhao	28.91	PYCX	Barra Bahia	22.51
PVIA	Itacotitani	29.527	PWJA	Rio de Janeiro Bay	63.87	PYCY	Porto Alegre	30.03
PVIB	Itacotitani	26.13	PWJB	Rio de Janeiro Bay	56.71	PYCY	Barra Bahia	135.8
PVJ	Itacotitani	81.52, 37.65, 29.52	PWJC	Rio de Janeiro Bay	56.63	PYD	Fernando de Noronha	34.48
PVJC	Cachoeira	34.64	PWJD	Rio de Janeiro Bay	26.338	PYDA	Araacaju	137.6
PVK	Baiao	81.8	PWK	S. Luis de Maranhao	26.502	PYDB	Araacaju	37.01
PVKA	Baiao Para.	58.71	PWKA	Sadario	53.19	PYDC	Araacaju	22.73
PVKB	Baiao Para.	61.15	PWKB	Sadario	29.01	PYE	Natal Norte	75
PVKC	Baiao Para.	29.498	PWKD	Sadario	28.59	PYEA	S. Luis do Maranhao	33.84
PVL	Clevelandia	92.58	PWKE	Sadario	15.92	PYEB	S. Luis do Maranhao	19.05
PVLA	Clevelandia	30.02	PWLA	Nitheroy	63.42	PYEC	S. Luis do Maranhao	90.23
PVLB	Clevelandia	34.52	PWLB	Nitheroy	56.02	PYED	Victoria	24.519
PVVC	Clevelandia	19.28	PWLC	Nitheroy	52.72	PYEF	Victoria	22.84
PVM	Manicore	92.46	PWLD	Nitheroy	26.36	PYF	Victoria	138.9
PVMA	Manicore	35.05	PWME	Natal Norte	78.53	PYG	S. Maria	82.88, 51.81, 29.97
PVMB	Manicore	34.4	PWMA	Florianopolis	57.7	PYH	Natal Norte	34.88
PVMC	Manicore	19.24	PWMB	Florianopolis	53.28	PYJ	Rio de Janeiro	75
PVN	Porto Nacional	83.14	PWMC	Florianopolis	29.06	PYL	Rio de Janeiro	34.48
PVO	Obidos	81.08	PWMD	Florianopolis	26.642	PYM	Pelotas	75
PVOA	Obidos Para.	61.07	PWN	Natal Norte	57.25	PYP	Pelotas	34.88
PVOB	Obidos Para.	29.47	PWNA	Rio Grande Sul	55.56	PYQ	Recife	51.203
PVOC	Obidos Para.	24.29	PWNB	Rio Grande Sul	47.7	PYR	Septiba	19.28
PVOD	Obidos Para.	39.06	PWNC	Rio Grande Sul	28.408	PYU	Porto Alegre	75
PUPA	Marapanim	39	PWND	Rio Grande Sul	23.847	PYQ	Pelotas	34.48
PVQ	Marapanim	91.32, 76.3, 34.23, 24.4, 19.16	PWO	Natal Norte	53.1	PYO	Pelotas	34.48
PVQA	Urbanopolis	76.3	PWQD	Rio de Janeiro	64.38	PYP	Pelotas	34.48
PVQB	Urbanopolis	34.23	PWPA	Santos	55.658	PYQ	Recife	34.48
PVQC	Urbanopolis	24.4	PWPB	Santos	47.77	PYR	Septiba	19.28
PVQD	Urbanopolis	24.4	PWPC	Santos	29.463	PYS	Porto Alegre	75

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
P YV	Porto Alegre.	34.48	RBX	Moscow.	100, 20	RDR	Arkhangel'sk.	80, 20
P YVA	Joinville.	32.33	RBZ	Tchou.	84.65, 48.94	RDRL	Leningrad.	28.50
P YVB	Joinville.	24.762	RCA	Garm.	75.5, 32.5	RDT	Limenda.	80, 20
P YVC	Joinville.	24.64	RCAA	Sloutak.	40	RDU	Okhotak.	40
P YVD	Joinville.	86.33	RCAB	Mogilev.	89.6, 58.71	REAI	Ioujok.	82, 68
P YVE	Arrayas.	33.05	RCAC	Minsk.	51.72	REAZ	Matkenia.	82, 68
P YVF	Arrayas.	20.82	RCAD	Minsk.	48.72	REA3	Kangora.	82, 68
P YT	Recife.	75	RCAE	Lelchitz.	82, 68	REA4	Sogja Verkhniaia.	82, 68
P YWA	Diamantina.	32.2	RCAF	Narovi.	82, 68	REAS	Iana.	82, 68
P YWB	Diamantina.	30.88	RCAG	Tourov.	82, 68	REAS	Ioukhot.	82, 68
P YWC	Diamantina.	87.336	RCAN	Petrikov.	82, 68	REAA	Rybinck.	82, 68
P YWE	Cuyaba.	138.4	RCAI	Liouban.	82, 68	REAB	Dyanovo Voz.	82, 68
P YWF	Cuyaba.	30.48	RCAJ	Starboir.	82, 68	REAC	Urievetz.	101.35, 82, 68
P YXA	Floriano.	22.58	RCAK	Begom.	82, 68	READ	Parfenievo.	101.35, 82, 68
P YXB	Floriano.	23.565	RCAL	Glousk.	82, 68	REAE	Tchoukhlima.	101.35, 82, 68
P YXC	Floriano.	18.91	RCAM	Kiltchev.	82, 68	REAF	Ivan Kevo Slavinka.	101.35, 82, 68
P YXD	Floriano.	89.15	RCAN	Paritchi.	82, 68	REAG	Makariev.	101.35, 82, 68
P YXG	Formiga.	87.08	RCAO	Propoisok.	82, 68	REAH	Neia.	101.35, 82, 68
P YXE	Formiga.	32.79	RCAP	Tchetcherak.	82, 68	REAI	Potchinok.	101.35, 82, 68
P YXF	Formiga.	24.498	RCAQ	Tcherikov.	82, 68	REAJ	Seminowak.	101.35, 82, 68
P YY	Recife.	24.88	RCAR	Belynitchi.	82, 68	REAK	Pasma Slavinka.	101.35, 82, 68
P YYE	Therphilo Ottoui.	115.83	RCAS	Souraj.	82, 68	REAL	Kady.	101.35, 82, 68
P YYF	Therphilo Ottoui.	108.3	RCAT	Gomel.	82, 68	REAM	Spas Chartanovo.	101.35, 82, 68
P YYG	Therphilo Ottoui.	77	RCAU	Mozyr.	82, 68	REAN	Peredvika.	82, 80, 88, 68, 40.5
P YYH	Therphilo Ottoui.	21.881	RCAV	Polotsk.	82, 68	REAO	Peredvika.	82, 80, 88, 68, 40.5
P YYJ	Therezina.	33.73	RCAW	Vitebsk.	82, 68	REAP	Tchoukhlima.	84.38, 40.87
P YYK	Therezina.	18.83	RCA X	Bobrouisk.	82, 68	REQA	Pechekhoniye.	84.24, 40.76
P YYL	Therezina.	89.42	RCA Y	Borisov.	82, 68	REAR	Viasniki.	72.12, 71.09
P YT	Recife.	24.48	RCA Z	Kouliab.	80.5, 33.5	REAS	Chouia.	81.3
P YZ	Therphilo Ottoui.	24.48	RCC	Tchoumikan.	80	REAS	Viasniki.	82, 68, 68
P YZC	Passo Fundo.	96.308	RCH	Kerbli.	80	REAZ	Viasniki.	82, 68, 68
P YZD	Passo Fundo.	84.5	RCHA	Simferopol.	84.87, 42.84	REIA	Alma Ata.	81
P YZE	Passo Fundo.	39.5	RCHD	Simferopol.	63.12, 49.5	REIG	Akmolinsk.	89.77, 51.72
P YZF	Passo Fundo.	24.762	RCHO	Simferopol.	63.12, 48.5	REIH	Ourslak.	53.86
P YZH	Alto Uruguay.	141.5	RCI	Kertch Crimea.	22.002	REII	Kaesak Republic.	82, 80, 88, 68, 40.5
P YZI	Alto Uruguay.	84.83	RCL	Najakhan.	39.5	REIL	Petroparlevsk.	88.827, 48.54
P YZJ	Alto Uruguay.	78.8	RCM	Palama.	80	REIM	Koomrad.	60.728
P YZK	Alto Uruguay.	52.35	RCN1	Portable.	82	REIN	Alma Ata.	87.484, 74.07
P YZL	Alto Uruguay.	30.301	RCN2		82	REIO	Parlodar.	70.93
P YZN	Parnahyba.	52.54	RCN3		82	REIP	Semipalatinsk.	71.27
P YZN	Parnahyba.	31.06	RCN4		82	REIQ	Vorrogodinie.	57.6
P YZO	Parnahyba.	84.5	RCN5		82	REIR	Kassakskaiia.	58.59
P YZP	Villa Feijo.	52.13	RCN6		82	REIV	Bouri Bouktu.	71.94, 47.82
P YZQ	Villa Feijo.	34.58	RCN7		82	REJJ	Koustanai.	69.64
P YZR	Villa Feijo.	193	RCN8		82	REJK	Karsakpali.	82.24, 39.85
P YZT	Porto Nacional.	51.95	RCN9		82	REJO	Aralakoe More.	48.37
P YZV	Porto Nacional.	36.05	RCNA	Viazma.	80	REJP	Semipalatinsk.	83.85, 49.42
P YZW	Porto Nacional.	30.24	RCNB	Okhota.	63.44, 49.59	REJQ	Alagore.	48.47, 34.92
P YZW	Santos.	39.56	RCNC	Soukhinitchi.	63.807, 49.26	REJR	Ganiouchkino.	51.5
P YZX	Santos.	21.98	RCND	Bobrouisk.	63.18, 48.7	REJS	Aoulie Ata.	99.67, 49.5
P YZY	Santos.	100.7	RCNE	Rovslis.	63.12, 49.42	REJT	Alma Ata.	81.12, 35.15
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PZA	Paramaribo.	43.46, 31.2	RCNF	Smolenesk.	63.966, 49.26	REJU	Indigo Boukhta.	83.58, 29.83
PZB	Pernambuco.	48	RCNH	Smolenesk.	82, 68	REJY	Kraenoiarak.	100, 35
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PZD	Moringo.	50.5	RCNJ	Toropets.	82, 68	RFAD	Toula.	47.54
PZE	Alibina.	50.5	RCNK	Seljarovo.	82, 68	RFAF	Moscow.	82, 80, 88, 68, 40.5
PZF	Coronie.	50.5	RCNL	Nelidovo.	82, 68	RFAG	Toula.	47.51
PZG	Nickerie.	50.5	RCNM	Velij.	82, 68	RFAL	Moscow.	68.34, 26.22
PZH	Paramaribo.	50.5	RCNO	Kozelsk.	82, 68	RFAN	Moscow.	48.62, 26
PZI	Paramaribo.	50.5	RCNP	Feno.	82, 68	RFAO	Moscow.	84.96, 14.77
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RAAL	Amour.	36.38	RCO5	Koutias.	80.43	RFQA	Moscow.	81.53, 40.73
RAAN	R. T. 44 Neva.	150	RCO6	Bakou.	75, 42.48	RFAR	Supoukhev.	58.65, 37.83
RAAO	R. T. 45 Dvina.	150	RCO7	Tibia.	73.35, 42.37	RFAT	Toula.	58.68, 30
RABK	Alexel Rykov.	25.12	RCQ	Bakou.	88.76, 70.59	RFAU	Podbelaskogo.	37
RABL	Mikolan.	38	RCQA	Tiflis.	89.82, 71.09	RFAY	Rostov Sun Le Don.	80, 40
RACK	Dnyepr.	48.28, 47.1	RCQB	Sabir Abad.	89.82	RFAY	Krasnodar.	80, 40
RAD	Verechchagino.	81	RCQC	Sabir Abad.	43.541	RFAY	Katach.	80, 40
RAF	Alma Ata.	80	RCQD	Saliany.	64.103	REX	Indigo Boukhta.	83.58, 29.83
RAFN	Lenine.	48.08, 47.39	RCQE	Agdam.	48.876	REY	Kraenoiarak.	100, 35
RAHO	Dekabrist.	48.23, 47.1	RCQF	Zakataly.	52.356	RFA	Astralakan.	75, 45
RAHP	Illich.	48.08, 47.1, 48.95	RCQG	Tiflis.	87.209, 74.26	RFAD	Moscow.	81.51
RAK	Alma Ata.	40.2	RCQH	Kariagno.	63.44, 48.7	RFAL	Moscow.	68.34, 26.22
RAQ	Samarga.	70	RCQI	Kelbadjary.	65.846	RFAN	Moscow.	48.62, 26
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RASG	Tourkmen.	48.23, 47.1	RCQX	Alages.	50.51	RFAT	Toula.	74.63, 42.67
RASI	Nevestrol.	48.23, 47.1	RCQY	Tiflis.	61.11	RFAU	Bykovo.	51.72
RASZ	R. T. 47, Sourouzryba.	150	RCQZ	Tachkino.	51	RFAY	Bykovo.	78.719, 74.813
RATA	Krasnvarmeets.	200, 150	RCQ1	Kelbadjary.	65.846	RFAY	Moscow.	85.227, 72.89
RAUI	R. T. 1. Akoula.	150, A1-2-3	RCQ2	Kazakh.	77.922	RFAY	Moscow.	84.46, 74.84
RAUK	R. T. 3. Kasatha.	150	RCQ3	Baku.	150	RFAX	Moscow.	87.209, 43.35
RAUL	R. T. 4. Navaga.	150	RCQ4	Ufia Rdo Center.	78.33	RFAY	Moscow.	81.83, 40.73
RAUT	R. T. Toporak.	187.5, 178.5, 166.7	RCQ5	Lininakan.	63.16	RFAY	Moscow.	81.83, 40.73
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		71.08, 47.1	RCTF	Soubianie.	82, 68, 68	RFBU	Moscow Radio centu.	78.14, 78.05, 75.85
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SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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RIM10		89.82, 71.09	RKA15	Peredvijika	82, 80, 68, 66, 40.5	RKA2	Perevijika	82, 80, 68, 66, 40.5
RIMM	Oust Tcharychskala	71.09, 46.97	RKA16	Peredvijika	82, 80, 68, 66, 40.5	RKA3	Perevijika	82, 80, 68, 66, 40.5
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RIMO	Kargasok	88.49, 71.09	RKA18	Peredvijika	82, 80, 68, 66, 40.5	RKA5	Perevijika	82, 80, 68, 66, 40.5
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RIMR	Koumir	101.35, 82, 66	RKA20	Peredvijika	82, 80, 68, 66, 40.5	RKA7	Perevijika	82, 80, 68, 66, 40.5
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RIMT	Rybone	101.35, 80, 66	RKA22	Peredvijika	82, 80, 68, 66, 40.5	RKA9	Perevijika	82, 80, 68, 66, 40.5
RIMU	Talmenka	101.35, 80, 66	RKA23	Peredvijika	82, 80, 68, 66, 40.5	RKA10	Perevijika	82, 80, 68, 66, 40.5
RIMV	Kouznetek	67.143	RKA24	Peredvijika	82, 80, 68, 66, 40.5	RKA11	Perevijika	82, 80, 68, 66, 40.5
RIMX	Omsk	44.8	RKA25	Peredvijika	82, 80, 68, 66, 40.5	RKA12	Perevijika	82, 80, 68, 66, 40.5
RIMY	Slavgorod	49.98	RKA26	Peredvijika	82, 80, 68, 66, 40.5	RKA13	Perevijika	82, 80, 68, 66, 40.5
RIMZ	Souzoun	41.04	RKA27	Peredvijika	82, 80, 68, 66, 40.5	RKA14	Perevijika	82, 80, 68, 66, 40.5
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RIS	Tifis	44.58, 43.84	RKA45	Peredvijika	82, 80, 68, 66, 40.5	RKA32	Perevijika	82, 80, 68, 66, 40.5
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RIT3	Okouneeyo	82, 68	RKA48	Soroka	101.35, 82, 66	RKA35	Perevijika	82, 80, 68, 66, 40.5
RIT4	Mogotchino	82, 68	RKA49	Kosaka	101.35, 82, 66	RKA36	Perevijika	82, 80, 68, 66, 40.5
RIT5	Moltechanovo	82, 68	RKA50	Kestenga	101.35, 82, 66	RKA37	Perevijika	82, 80, 68, 66, 40.5
RIT6	Kraenyl lar	82, 68	RKA51	Oakhtu	101.35, 82, 66	RKA38	Perevijika	82, 80, 68, 66, 40.5
RIT8	Treblitskala	82, 68	RKA52	Beija Knajati	101.35, 82, 66	RKA39	Perevijika	82, 80, 68, 66, 40.5
RIU	Verkhoianek	83.8, 46.66	RKA53	Kem	101.35, 82, 66	RKA40	Perevijika	82, 80, 68, 66, 40.5
RIV	Oust Maia	83.34, 40.98	RKA54	Kondopogi	101.35, 82, 66	RKA41	Perevijika	82, 80, 68, 66, 40.5
RIX	Krementchoug	78.947, 53.763	RKA55	Reboly	101.35, 82, 66	RKA42	Perevijika	82, 80, 68, 66, 40.5
RIVY	Tchernigov	81.522, 54.545	RKA56	RKBF	101.35, 82, 66	RKA43	Perevijika	82, 80, 68, 66, 40.5
RIZ	Korosten	84.270, 56.075	RKA57	Stalino	101.35, 82, 66	RKA44	Perevijika	82, 80, 68, 66, 40.5
RJA1	Trkoutsk	57.5	RKA58	Jitomas	101.35, 82, 66	RKA45	Perevijika	82, 80, 68, 66, 40.5
RJA2	Sverdlovsk	82, 80, 68, 66	RKA59	Kharovsk	101.35, 82, 66	RKA46	Perevijika	82, 80, 68, 66, 40.5
RJAC	Chabourovo	82, 80, 68, 66	RKA60	Berdiansk	17.28	RKA47	Perevijika	82, 80, 68, 66, 40.5
RJAC	Novais Lialu	82, 80, 68	RKA61	Artemivsk	85.84, 42.92	RKA48	Perevijika	82, 80, 68, 66, 40.5
RJAD	Irbit	82, 80, 68, 66	RKA62	Stalino	84.87, 42.84	RKA49	Perevijika	82, 80, 68, 66, 40.5
RJAE	Tobolsk	82, 80, 68, 66	RKA63	Jitomas	43	RKA50	Perevijika	

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
RLD	Krasnojarsk.	40.5	RMLQ	Portable.	82, 88, 88, 88, 40.5	ROR	Dikson Ostrov 1.	45
RLE	Blagavestchenesk.	81.5	RMLR	Tchimbai.	67	ROS	Port Oust Einselski.	30
RLF	Termez.	48.8	RMNA	Kizyl Kia.	77.72, 50.08	ROT	Novji Port.	43
RLI	Tufis.	51.11	RMNB	Soulukta.	77.22, 50.35	ROU	Omsk.	50, 20
RLJ	Moscow.	38.82	RMNC	Kok Langak.	77.72, 50.76	ROY	Polarasia.	50, 30
RLK	Ostrov.	57	RMND	Naryn.	82.19, 51.107	ROW	Igorskii Char.	50, 30
RLRC	Beloretch.	82, 88	RMNE	Ketmen Tube.	69.964, 48.656	ROX	Nakhhratchinekais.	57
RLRD	Oufa.	82, 88	RMNG	Andijan.	61.48	RPA	Tachkent.	41.67, 29.27
RLRE	Zilair.	82, 88	RMNH	Frounze.	55.25, 43.04	RPD	Moscow.	156, 150, 134.4, 124.5, 109.1, 100, 93.75, 80.54, 69.76, 69.85, 51.72
RLRF	Kartali.	56.6	RMNI	Och.	69.6, 40.816	RPG	Northern Reigon.	82, 88, 88, 88, 40.5
RLRG	Ural.	82.1	RMNJ	Tian Chan.	51.48	RPK	Moscow.	41.52, 20.78, A1-2-3
RLRI	Buchkris Rep.	82, 88, 88, 88, 40.5	RMNK	Frounze.	68.61, 35.13	RPM	Batoum.	71.08, 48.31
RLRJ	Portable.	82, 88, 88, 88, 40.5	RMNL	Tchou.	94.88, 48.94	RPN	Poti.	71.09, 48.08
RLRK	Toporino.	48.23	RMPA	Chourab.	77.22, 50.875	RPO	Soukhoum.	71.09, 47.1
RLRK	Oula.	47.82	RMPB	Nijni Piandj.	83.8	RPP	Novoroasiak.	71.09, 47.82
RLRL	Bouraev.	82, 88	RMPD	Karakol.	48.15	RPQ	Odessa.	71.08, 47.39
RLRM	Baimak.	82, 88	RMPH	Nijni Piandj.	72.12	RPT	Tachkent.	50.03
RLRN	Asokino.	82, 88	RMPJ	Stalinabad.	77	RPW	Bolchoi Linkhovski.	43, 39
RLRO	Krasnooousolsk.	82, 88	RMPK	Stalinabad.	51.64	RPX	Zimlia Franza Iosifa.	43
RLRP	Krasnooujinsk.	82, 88	RMPM	Kourgan Tube.	51.11	RQA	Pamir.	45.2
RLRQ	Ianowul.	78.14, 43.23	RMPK	Chahkrianaunu.	50.8	RQB	Khorog.	44.5
RLRR	Arguinich.	80.214	RMPM	Chaatous.	50.34	RQD	Ackkhabad.	47.5
RLRX	Nikolo Berezwnka.	65.359	RMPN	Pskem.	51.48	RQE	Oudyl.	65.5
RLRY	Oufa.	80.429	RMPQ	Kavdjent.	47.4	RQF	Khoutsin.	58
RLRZ	Zilai.	58.444	RMPR	Pamir.	48.2	RQG	Sogvavan.	68.5
RLS	Routtcherikovo.	67.416, 51.803	RMPR	Garm.	57.5, 32.5	RQH	Noutovo.	48.5
RLSA	Oufa.	71.2, 28	RMSA	Koulibab.	60.5, 33.5	RQI	Katangli.	44.5
RLT	Chakhty.	80.845, 54.162	RMSA	Kransovodsk.	49.342	RQJ	Magnitoyorsk.	39
RLU	Khackov.	80.214, 55.859	RMSD	Achkdabed.	47.5	RQK	Sverdlovsk.	34
RLV	Grichino.	82.218, 54.845	RMSE	Tachaouz.	48	RQL	Novasibirsk.	44
RLWG	Artemwsk.	83.799, 55.866	RMW	Tachkent.	82.19, 50.85	RQM	Tourouklansk.	43.5
RLWI	Saratov.	70.59	RMW	Karchi.	87.72, 48.387	RQN	Souzoun.	22
RLWP	Elista.	63.28, 49.87	RWD	Tachkent.	81.74	RQO	Omsk.	44.8
RLX	Artemevsk.	46.5	RWE	Tachkent.	74.46, 74.63	RQP	Kanez.	46.2
RLY	Kharakov Rdo Center.	77.12, 60.37	RWH	Kagan.	84.27, 43.73	RQQ	Slavygorod.	41
RLZ	Western Siberia.	57.74	RWP	Samarkand.	79.79, 60.24	RQR	Kouznetesk.	47
RMA1	Poti.		RWQ	Termes.	60.51	RQS	Kamen.	44.2
RMA2	Portable.		RWR	Augren.	51.46	RQT	Tomsk.	45
RMA3		82	RWS	Tachkent.	53.957	RQU	Tara.	44.5
RMA4		68	RWT	Tachkent.	59.59, 35.25	RQV	Kojernikovo.	68.81
RMA5		66	RWA	Vladivostok.	56	RQW	Chiukh.	48.5
RMA6		40.5	RNA	Vladivostok.	44	RQY	Outarube.	47.8
RMA7			RNA X	Vladivostok.	88.49	RQZ	Kholjent.	47.4
RMAA	Khabarovsk.	69.124, 48.18	RNE	Moscow.	50	RRC	Myb Jelania.	80, 20
RMBM	Skovorodino.	48.94	RNF	Moscow.	24.953, 19.595	RHD	Moscow Radio Center.	41.78, 18.05
RMAC	Vladivostok.	67.57	RNG	Pulkovo.	46.72	RHE	Moscow Radio Center.	38.47, 15.9
RMDA	Tchesnokovskaina.	48.47	RNH	Telbes.	46.44	RHF	Leningrad.	29.14, 16.66
RMAE	Nikolsk.	48.02	RNI	Oulagan.	63.29	RRI	Tachkent Radio Center.	30.44, 16.73, A1-2-3
RMAF	Botekkarevo.	49.1	RNK	Khabarovsk.	59.5	RRI	Novosibirsk Radio Center.	30.38, 16.84
RMAH	Alexandrovoesk.	52	RNL	Lebedevoe.	84.03	RJL	Sverdlovsk Radio Center.	30.35, 17.93
RMAJ	Nelma.	89.29, 71.08	RNO	Kargasok.	46.80	RKJ	Tiflis Radio Center.	30.29, 16.12
RMAK	Petro pavlovsk.	50.338, 38.32	RNP	Belontchelie.	77.52, 53.67	RRL	Irkutsk Radio Center.	30.2, 16.1
RMAL	Vladivostok.	52.72	RNO	Stchetinkin.	62	RRW	Moscow Radio Center.	77.12, 77.02, 76.82
RMM	Tetukhe.	46	RNR	Stalin.	80, 40	RRX	Moscow Radio Center.	36.58, 36.85, 36.83
RMAQ	Nikolaevsk.	52	RNS	Ousja Kamchatsk.	58	RRY	Moscow Radio Center.	33.98, 33.96, 33.94
RMAR	Nogavevo.	53	RNU	Nogavevo.	59	RRZ	Moscow Radio Center.	68.18, 49.38
RMAS	Tajouin.	91.5, 71.08, 48.08	RNZ	Oreulek.	71.09, 47.85	RSD	Karaganda.	63.43, 31.71
RMAV	Vladivostok.	56	ROAA	Central Asia.	71.09, 47.39	RSE	Gouriev.	46.8, 23.4
RMAX	Vladivostok.	83.49	ROAB	Kommouna.	71.09, 46.97	RTE	Alma Ata.	62.112, 31.06
RMY	Troitsje Zaroubino.	92.59, 71.09	ROAC	Bourjak.	88.76, 71.09	RTR	Obdorsk.	57.02, 28.96
RMAZ	Nakhodka.	80	ROAD	Twarzistchestvo.	89.29, 71.09	RSG	Magnitogorsk.	58.71, 29.35
RMBB	Precobrjenie.	83.82, 71.08, 47.62	ROAE	Frounze.	89.82, 71.09	RSH	Smolensk.	46.87, 37.23, 18.18
RMBB	Popov.	88.76, 71.08, 47.1	ROAG	Perevdjika.	71.09, 47.92	RSI	Moscow.	100
RMBB	Plastoure.	83.17, 71.08, 48.23	ROAH	Kommouna.	82, 80, 68, 68, 40.5	RT1	Portable.	80
RMBD	Poutiatino.	88.76, 71.08, 47.10	ROAI	Stalin.	82, 80, 68, 68, 40.5	RT2	Portable.	80
RLN	Gorlovka.	65.217, 51.107	ROAJ	Shetchin.	82, 80, 68, 68, 40.5	RT5	Iaskogorka.	89.92, 71.09
RLQ	Kadiyevka.	65.646, 51.282	ROAN	Enugia.	82, 80, 68, 68, 40.5	RTN	Moscow Radio Center.	48.46, 48.38, 21.08, 21.05
RLR	Krasnyi.	66.815, 51.635	ROAO	Perevdjika.	72.3, 71.09, 38.1	RTP	Moscow Radio Center.	48.3, 48.78, 21.17,
RLRA	Bourzian.	82, 88	ROAP	Perevdjika.	71.09, 70.75, 36.1	RTQ	Moscow Radio Center.	51.90, 51.90, 25.77,
RLRB	Starilitaneka.	82, 88	ROAQ	Krasnvarmeets.	88.49, 71.09	RTR	Moscow Radio Center.	48.23, 48.08, 19.24,
RMBG	Markevo.		ROAR	Komsomolets.	71.09, 70.75, 36.1	RTS	Moscow Radio Center.	49.92, 49.83, 23.006,
RMBM	Khaiouzovo.		ROAT	Okschaia C.	91.6, 71.09, 47.85	RTT	Moscow Radio Center.	52.68, 52.64, 24.25,
RMBT	Nelkan.	59, 22	ROBF	Karl Marx.	91.6, 71.09, 47.85	RTU	Moscow.	85.35, 72.64, 42.27
RMBU	Ozernaice.	60	ROBG	Platileka.	89.29, 71.09	RTV	Moscow Radio Center.	48.01, 45.94, 18.84,
RMBV	Kiuktekh.	60	ROBH	Kramyi Partizan.	89.92, 71.09	RTW	Moscow Radio Center.	18.83
RMBX	Itcha.	60	ROBI	Osnievitch.	91.6, 71.09	RUA	Moscow Radio Center.	77.12, 36.83
RMBY	Chantary.	60	ROBJ	Rykev.	91.05, 71.09	RUB	Moscow Radio Center.	81.63, 69.44
RMBZ	Karaminski.	60	ROBK	Bobopravn.	93.17, 71.09	RUC	Moscow Radio Center.	69.20, 35.23
RMC	Olotorka.	60	ROBL	Profintern.	93.16, 71.09, 48.23	RUD	Moscow Radio Center.	78.16, 38.14
RMCB	Bolcheretsk.	60	ROBN	Karl Libknecht.	92.59, 71.09	RUE	Moscow Radio Center.	77.12, 36.83
RMC	Pitchchi Ostrov.	60	ROBO	Melnik.	89.29, 71.09, 47.1	RUF	Moscow Radio Center.	93.36, 68.42
RMCQ	Lantar.	60	ROBP	Rarinckto.	89.92, 71.09, 47.39	RUG	Moscow Radio Center.	93.20, 35.22
RMC	Portable.	82, 80, 68, 68, 40.5	ROBT	Inn Roudsoutak.	71.09, 46.97	RUH	Moscow Radio Center.	72.03, 36.19
RMC	Blawigstchenesk.	67.9, 49.59	ROBV	Kouoir.	71.09, 48.31	RUI	Moscow Radio Center.	79.88, 45.92
RMC	Sretinsk Pristan.	71.08, 36.01	ROBW	Spartak.	71.09, 35.46	RUS	Ditskoe Selo.	49.75
RMC	Rineski Korsakov.	71.08, 48.31	ROBX	Ignorodets.	71.09, 36.1	RUU	54.005, 54.127, 27.064	
RMC	Tavaiza.	80, 71.09	ROCY	Amour.	71.09, 35.88	RUY	Pervomaiisk.	27.003
RMC	Klerk.	80, 71.09	ROD	Vladimir Lenin.	71.09, 35.88	RUZ	Bobruisk.	44.84
RMC	Montoukke.	80, 71.09	ROE	Petrovski.	71.09, 36.1	RV15	Khabarovok.	81.967, 54.045
RMCQ	Dekastr.	80, 71.09	ROF	Nijne.	46	RV38	Moscow.	70.2
RMC	Data.	80, 71.09	ROCV	Kroupeskala.	71.09, 35.88	RWBW	Klutchi.	54.4
RMC	Bolchoi Tazgou.	80, 66	ROG	Oron.	71.09, 36.1	RKA	Siberia.	60
RMC	Sogvavan.	80, 71.09	ROD	Tourkestan.	71.09, 46.97	RA97	Leningrad.	38
RMC	Blagevestchenesk.	59	ROD	Sever.	71.09, 35.46	RXC	Siberia.	35.0, 70
RMC	Khabarovsk.	54.845	ROCP	Eniseick.	71.09, 36.1			
RMCW	Blagevestchenesk.	68.49, 71.1	ROCT	Lenin.	71.09			
RMLA	Tandy.	68.18	ROCF	Ola.	85			
RMLB	Cheikh.	46.5	ROCH	Tourt Koul.	49.8			
RMLC	Tourt-Koul.	59.172	ROI	Koustanai.	46.8			
RMLD	Moujinak.	59.41	ROJ	Tolbok.	51			
RMLE	Stalinalabad.	80, 54, 28	ROK	Ourdlokhkom.	63			
RMLF	Tachkent.	58	ROK	Petukhovo.	26			
RMLG	Tachkent.	47	ROK	Kumenskoe.	30			
RMLH	Tachkent.	64	ROE	Ternel.	56			
RMLJ	Tian Chian.	54	ROF	Ola.	85			
RMLK	Samarband.	85, 54, 36	ROH	Tourt Koul.	49.8			
RMLM	Tietek.	51.28	ROI	Koustanai.	46.8			
RMLN	Tehimkent.	68.18, 52.17, 32.87	ROJ	Tolbok.	51			
RMLO	Tielkoubas.	69.284, 47.619, 32.787	ROK	Ourdlokhkom.	63			
RMLP	Lougwala.	80.845, 46.085, 31.056	ROM	Khabarovsk.	26			
RMLP			ROP	Tcheliabinsk.	63.5			

RXA—RXZ REPUBLIC OF PANAMA

RXA	Alnurante.	58, 47.63, 39.74, 34.52
RXB	Port Armuelles.	55.5, 39.9, 34.4, 28.12, 16.96
RXC		61.4

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
SAA—SMZ SWEDEN								
SAA	Karlskrona		SHUA	Faxen	38.5	TIA	S. Jose	37.974
SAD	Stockholm	31.0	SHVN	Pegasus	36.5	TIC	Cuesta	51.68, 43.04, 37.88
SAB	Gotteborg	38.4, 28.98, 24.15	SH XA	Blankaholm	38.5	TID	Liberia	37.984
SAF	Vaxholm	38.3	SH YA	Balboa	38.5	TIE	Pozo	37.987
SAH	Kamossand	36.40	SH YN	Tilia Gerthon	38.5	TIF	Buenos Aires	37.986
SAQ	Varberg		SBN	Atland	38.5, 24.15	TIG	General	38
SAS	Karborg	52.5, 43, 31.8, 15.88	SICN	Laurel	38.5	TIJ	Puerto Jimenez	38.784
SASH	Matala	49.48	SIDN	Flora	38.5	TIM	Limors	62.05, 17.28
SAT	Varberg	33.58, 28.54, 16.52, 15.48	SIFN	Gunda	38.5	TIP	Puntarenas	38.013
SAX			SIGN	Capella	38.5	TIR	Cartago	48.5, 42.98, 27.9
SCJ	Karkskrona	196	SIJN	C. G. Thulin	38.5	TIU	Vvita	39.259
SDFA	Fernia	38.5, 24.15	SIKN	Svaneholm	38.5			
SDFN	Orania	38.5, 24.15	SILK	Carina	38.5, 24.15			
SDGA	Wanja	38.5, 24.15	SIMA	Nordanvik	38.5, 24.15			
SDGN	Sveajari	38.5	SIMN	Slureholm	38.5			
SDKA	Erik, Friesell	38.5	SINA	Hermes	38.5			
SDKN	Kiruna	38.5	SINT	Abram Rydberg	38.5, 24.15			
SDMN	Formosa	38.5, 24.15	SIOA	Pajala	38.5			
SDNA	Miraflores	38.5	SIOB	Svedborg	38.5, 24.15			
SDNT	Eros	38.5, 24.15	SION	Nipporn	38.5			
SDPA	Jupiter	38.5	SIPN	R. H. Sanders	38.5, 24.15			
SDQN	Canada	38.5	SIPA	Sunnanvik	38.5, 24.15			
SDRA	Virgo	38.5	SIPA	Valdiva	38.5			
SDTA	Ragnhildsholm	38.5	SIRA	Consul Olsin	38.5			
SDTD	Boren	38.5	SIRN	Kalmia	38.5, 24.15			
SDUN	Sparuholm	38.5	SITA	Merttainen	38.5, 24.15			
SDVA	Malaron	38.5	SITN	Dalkem	38.5, 24.15			
SDYA	Burgundia	38.5, 24.15	SIUA	Buenos Aires	38.5			
SDZN	Roxen	38.5	SIUN	Tamara	38.5, 24.15			
SEGA	Sweden	38.5	SIVN	Peiping	38.5, 24.15			
SEGN	Gondul	38.5	SIWA	Bernicia	38.5, 24.15			
SEHN	Hemland	38.5	SIXA	Pan Gothia	38.5, 24.15			
SEIN	Niagara	38.5	SIXN	Nuolia	38.5, 24.15			
SEJA	Delke	38.5, 24.15	SIXY	Atlanten	38.5, 24.15			
SEJN	Shantung	38.5	SIZA	C. B. Pedersen	38.5, 24.15			
SEKN	Kastelholm	38.5, 24.15	SIZN	Procyon	38.5, 24.15			
SELN	Ella	38.5	SIZR	Adele	38.5, 24.15			
SEMA	Murjek	38.5	SJAN	Inunarem	38.5			
SEMN	Bretannia	38.5	SJBA	Laponia	38.5			
SENT	Suecia	38.5	SJBN	Agne	38.5, 24.15			
SEOA	Falsterbo		SJCA	Nijorn	38.5, 24.15			
SEON	Haiheren	38.5	SJMA	Drottningholm	38.5			
SEPN	Manga	38.5	SJNA	Erland	38.5			
SEQN	Svadrott	38.5	SJTA	Porjus	38.5, 24.15			
SERA	Santos	38.5	SJUA	Gracia	38.5, 24.15			
SERN	Ring	38.5	SJZA	Malmen	38.5, 24.15			
SETN	Rane	38.5	SKAN	Alex Johnson	38.5			
SEUA	Korsholm	38.5	SKBA	Gripholm	38.5			
SEVN	Nordland	38.5	SKCA	Tolken	38.5			
SEWA	Sevaland	38.5	SKIA	Benares	38.5, 24.15			
SEWN	Vigor	38.5	SKJA	Strassa	38.5			
SEXA	Amerisaland	38.5	SKLA	Nanking	38.5, 24.15			
SEYN		38.5	SKTA	Atos	38.5, 24.15			
SFEN	Indianic	38.5, 24.15	SLDA	Oxelosund	38.5			
SFGA	Odenskohm	38.5	SLFA	Algeria				
SFJA	Consul Gorfitzon	38.5, 24.15	SLIA	Oljaren	38.5, 24.15			
SFJN	Gudur	38.5	SLJA	Swedish	38.5			
SFLN	Torne	38.5, 24.15	SLRA	Polcinkeln	38.5			
SFNT	Abisko	38.5	SLTA	Grangeborg	38.5			
SFOA	Loussa	38.5	SLUA	C. F. Litjevalch	38.5			
SFPN	Mirabooka	38.5	SPW1	Rio de Janeiro	15.3			
SFRN	Sir Ernest Cassel	38.5	SPW2	Warsaw				
SFUN	Abadan	38.5	SPW3	Warsaw				
SFWN	Baltic	38.5	SPXX	Grudziadz				
SFXA	Bodin	38.5	SPZZ	Warsaw				
SFXN	Swedish	38.5						
SFXN	Marvik	38.5						
SFYA	Gustaf E. Renter	38.5						
SFYN	Kromp Margarita	38.5						
SFZA	Margaret Johnson	38.5						
SFZN	Sweden	38.5						
SGBN	Canton	38.5						
SGCN	San Francisco	38.5						
SGDA	Sumatra	38.5						
SGEA	Pedro Christopherson	38.5						
SGFA	Sydic							
SGIA	Eknaren	38.5, 24.15						
SGIN	Braheholm	38.5						
SGL	Stockholm							
SGLN	Lagoholm	38.5						
SGMA	Sagoland	38.5, 24.15						
SGMN	Miles	38.5, 24.15						
SGPN	Nordie	38.5						
SGRA	Carisholm	38.5						
SGRN	Pollux	38.5						
SGTA	Secidea	38.5						
SGUA	Skagern	38.5, 24.15						
SGVA	John Lundwall							
SGWA	Valparaiso	38.5						
SGXA	Japan	38.5						
SGXN	Valencia	38.5						
SGYA	Ceylon	38.5						
SGZA	Zoroaster	38.5, 24.15						
SHAN	Balakava	38.5						
SHBA	Lulea	38.5						
SHBN	Miranda	38.5						
SHEN	Pluto	38.5, 24.15						
SHFA	Agra	38.5						
SHFN	Swedish	38.5						
SHGN	Gotland	38.5						
SHIA	Anten	38.5						
SHJA	Lima	38.5						
SHKN	Hammaren	38.5						
SHLA	Kolsnaren	38.5, 24.15						
SHLM	Anglo Swede	38.5						
SHNA	Bularen	38.5						
SHPA	Yugaren	38.5, 24.15						
SHQA	Swedish	38.5						
SHQN	Blaland	38.5						
SHRN	Gunnaren	38.5						
SHTN	Belgaa	38.5						
TIA—TIZ COSTA RICA								
TIA	S. Jose							
TIC	Cuesta							
TID	Liberia							
TIE	Pozo							
TIF	Buenos Aires							
TIG	General							
TIJ	Puerto Jimenez							
TIM	Limors							
TIP	Puntarenas							
TIR	Cartago							
TIU	Vvita							
UIA—UKZ DUTCH EAST INDIES								
UJJ	Posso Celebes Is							
UJK	Celebes Is.							
UJL	Celebes Is.							
UJM	Celebes Is.							
UKK	Baa							
UKL	Kalabahi Alor Is.							
UOA—UOZ AUSTRIA								
UOB81	Wien							
UOB87	Innsbruck							
UGP6	Graz							
UOJ	Deutsch Altenburg							
UOK	Altenburg							
UOLP5	Linz							
UOM	Wien							
UOP	Wien							
UOR	Deutsch Altenburg							
UOSP5	Vienne							
UOX	Salzburg							
UWA—UZZ VAA—VGZ CANADA								
UWA	Vancouver, B. C.							
UWB	Victoria, B. C.							
UWC	Kelowna, B. C.							
UWD	Vancouver, B. C.							
UWE	Toronto, B. C.							
UWF	Toronto, Ont.							
UWG	Quebec, P. Q.							
UWH	Quebec, P. Q.							
UWI	Winnipeg, Man.							
UWJ	Moncton, B. C.							
UWK	Moncton, N. B.							
UWL	Edmonton, Alta.							
UWM	Edmonton, Alta.							
UWN	Vancouver, B. C.							
UWO	Vancouver, B. C.							
UWP	Winnipeg, Man.							
UWQ	Edmonton, Alta.							
UWS	Toronto, Ont.							
UWT	Toronto, Ont.							
UXA	Vancouver, B. C.							
UXB	Vancouver, B. C.							
UXC	Vancouver, B. C.							
UXD	Vancouver, P. Q.							
UXE	Winnipeg, Man.							
UXG	Montreal, P. Q.							
UXH	Montreal, P. Q.							
UXI	Toronto, Ont.							
UXJ	Halifax, N. S.							
UXK	Montreal, P. Q.							
UXL	Montreal, P. Q.							
UXM	Montreal, P. Q.							
UXN	Montreal, P. Q.							
UXO	Montreal, P. Q.							
UXP	Toronto, Ont.							
UXQ	Ottawa, Ont.							
UYA	Halifax, N. S.							
UYB	Montreal, P. Q.							
UCY	Ottawa, Ont.							
UYD	Toronto, Ont.							
UYE	Winnipeg, Man.							
UYF	Vancouver, B. C.							
UYG	Winnipeg, Man.							
UYH	Saskatoon, Sask.							
UYI	Regina, Sask.		</td					

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

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Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
VAC	Cape Lazo, B. C.	198.7	VESOB	Ottawa, Ont.	40.82, 20.41	VIN	Geraldton	37.08, 32.75, 20.1,
VAF	Alert Bay, B. C.	198.7	VESRM	Toronto, Ont.	47.17, 44.81, 23.58	VIO	Broome	17.24
VAI	Point Gray, B. C.	198.7, 43.5	VFA	Halifax, N. S.	22.43, 175.4, 147.8	VIP	Broomes	37.22, 32.26, 21.52,
VAJ	Diby Is., B. C.	48.25, 44.4	VFB	Toronto, Ont.	69.12	VIP	Perth	17.26
VAK	Gonzales Hill, B. C.	47.5	VFH	Magnet Point, B. C.	198.7, 131	VIQ	Wills Islets	51.02, 32.188, 14.81,
VAP	Port Churchill, Man.	43.88, 23.4, 36.88	VFJ	Homalock, B. C.	131	VIR	Rockhampton	48.38
VAS			VFL	Hudson Straits	62.82	VIS	Sydney	33.185
VAY	Cape Hopeen Str.	44.84, 44.27, 32.573, 23.931, 23.29	VFQ	Vancouver, B. C.	62.82	VIU	Kietu, New Guinea	37.59, 33.003
VBK	Copper Mine River, N.W.T.	44.84, 38.88, 28.43, 20.41	VFW	Regina, Sask.	63.12, 18.349	VIV	Madang, New Guinea	16.00, 75.8, 48.46,
VBQ	Halifax, N. S.	181.8, 127.7	VFV	Fort Norman, N. W. T.	69.12, 18.349	VIW	Wyndham	44.18, 42.97
VBS	Glace Bay, N. S.	53.72, 35.67, 23.9	VFZ	Thicket, Man.	63.12, 18.349	VIX	Wyndham	37.68, 31.72, 22.09,
VBY	Hudson Straits	44.84, 54	VGBL	Camp Borden	91.5, 18.349	VIV	Baltan Vic	17.08
VCB	Chesterfield Inlet, N. W. T.	34.11	VGBM	Provincial II	198.7	VJX	Maria Is., Tasmania	54.84
VCJ	Nottingham Is., N. W. T.	69.12	VGBT	Manget	198.7	VJB	Raboul, New Guinea	32.085, 24.95, 17.07
VCU	Hudson Straits		VGCF	Plunger	198.7	VJC	Wave Hill	44.17, 22.02
VCW	Merry Island, B. C.	198.7	VGCK	P. D. G. 2	65.7, 46.7	VJD	Burrinjuck	51.10, 25.66
VDA	Mile 356, Manitoba	110.7	VGCN	Kiora	194.8	VJE	Murrumburiah	185
VDB	Ottawa, Ont.	98.50, 61.80, 42.98	VGCP	P. L. M. 8	175.3, 124.17, 86.7, 46.7	VVF	Tundagai	185
VDC	Esquimalt, B. C.		VGCX	Clayburn	198.7	VJJ	Cloncurry	146.3, 87.97
VDE	Calgary	98.50, 61.80, 42.98	VGDJ	Earl	198.7	VJK	Camooveal	52.54, 26.27
VDF	Edmonton, Alberta	98.50, 61.80, 42.98	VGDM	Pacific Monarch	198.7	VJL	Wilson's Promontory	190
VDH	Montreal, Que.	98.50, 61.80, 42.98	VGDW	Storm King	198.7	VJM	Cliffy Island	190
VDJ	Hamilton, Ont.	98.50, 61.80, 42.98	VGDW	Annacis	198.7	VJN	Deaf Island	190
VDL	St. Hubert, Que.	98.50, 61.80, 42.98	VGFM	Dauntless	198.7	VJN	Lord Howe Is.	52.40, 14.21, 37.54,
VDM	London, Ont.	98.50, 61.80, 42.98	VGFQ	Cape Scott	198.7	VJNC	Maddhui	32.068
VDR	Moose Jaw, Sask.	98.50, 61.80, 42.98	VGFS	Almara	194.8	VJO	Koosawatha	36
VDT	Regina, Sask.	98.50, 61.80, 42.98	VGJL	B. C. Forester	198.7	VJP	New Guinea	185
	Toronto, Ont.	98.50, 61.80, 42.98, 42.98	VGJR	Canadian Commander	194.8	VJPK	Cape Otway	36.474
VEB	Mayo Landing, Yukon	51.77, 38.41, 31.04, 24.3	VGJS	Oliver Clarke	198.7, 54.3, 54	VJQ	Salomoa, New Guinea	39.47
VEC	Fort Simpson, Yukon	51.77, 31.04, 24.3	VGJZ	Taconite	198.7	VJU	Marburgberg, New Guinea	75.53, 36.80
VED	Edmonton, Alta.	51.77, 38.41, 31.04, 24.3	VGKN	Wireless	198.7	VJV	Manus, New Guinea	73.53, 36.80, 22.08
VEF	Aklavik, N. W. T.	31.04	VGKP	Chemainus	198.7	VJW	Atape, New Guinea	39.47
VEJ	Camp Bordon, Ont.	38.41, 35, 31.04, 24.3	VGKY	Achates	198.7	VJX	Bulolo, New Guinea	73.53, 36.80
VEL	Winnipeg, Man.	31.04	VGKZ	Empress of Asia	198.7	VJY	Kavieng, New Guinea	78.8, 15.345, 48.54,
VEQ	Cormorant Lake, Man.	31.04	VGKW	Empress of Russia	198.7	VJZ	Rabaul, New Guinea	43.47, 32.22
VER	Ottawa, Ont.	31.04	VGL	Chelosin	198.7	VKA	Bogolara	185
VE9AC	Vancouver, B. C.	197.4, 189.9, 125.1, 46.7	VGLM	Beatrice	198.7	VKB	Yass	185
VE9AD	Glace Bay, N. S.	187, 125.1, 46.7, 23.35	VGMS	Merry Is., B. C.	198.7	VKD	Melbourne	177.5
VE9AF	Montreal		VGMY	Robert Preston	198.7	VKF	New So. Wales	184.95
VE9AT	Toronto, Ont.	42.98	VGMZ	Burrard Chief	198.7	VKK	Birdsville	148.514, 34,762
VE9AK	Calgary, Alberta		VGNF	Progressive	198.7	VKL	Tasmania	148.514, 33.97
VE9AM	Montreal		VGNK	Princess Elaine	198.7	VKM	Victoria	148.51, 34.76
VE9AO	Toronto, Ont.	35.0	VGNR	Ark	198.7	VKN	Rottneet Is.	185
VE9AP	Drummondville, Que.	49.83	VGNV	Prince Edward Island	198.7	VKO	Bogolara	185
VE9AQ	Nipigon, Ont.	47.5	VGNS	Faultless	198.7	VKR	Yass	185
VE9AR	Saskatchewan	50, 42.98	VGPZ	Projective	198.7	VKF	Melbourne	177.5
VE9AU	London, Ont.	149.7, 142.9	VGQJ	D. B. M.	198.7	VKJ	New So. Wales	184.95
VE9AY	Toronto, Ont.	62.56, 34.68, 23.35	VGRM	James Carruthers	198.7	VKK	Birdsville	148.514, 34,762
VE9AZ	Maple Mount, Ont.	90, 105.2, 109.5	VGRN	Greta M	198.7	VKL	Tasmania	148.514, 33.97
VE9BA	Montreal		VGRY	Charlottetown	198.9	VKM	Victoria	148.51, 34.76
VE9BB	Toronto, Ont.	34.68	VGSN	Hopkins	198.7	VKN	Rottneet Is.	185
VE9BC	Campbell River, B. C.	135.6, 99.5	VGSP	Peerless	198.7	VKO	Oil Co., New Guinea	197.36
VE9BD	Swaine Lake, Ont.	185.2, 109.5, 90	VGSR	Salvage Princess	198.7	VKR	Melbourne	108.3, 81.1, 51.72
VE9BE	De Forest Road, Toronto	23.98	VGSX	S. Rock	23.4, 47.5	VKS	Sydney	43, 20, 16
VE9BF	Temagami, Ont.	185.2, 109.5, 90	VGSZ	Ivanhoe	198.7	VKV	Hobart	106.4, 80, 51.28
VE9BG	Savant Lake, Ont.	185.2, 109.5, 90	VGTJ	Le Roi	198.7	VKX	Milinginebi	148.51, 34.76
VE9BH	Savant Lake, Ont.	185.2, 109.5, 90	VGTO	Lorne	198.7	VKY	Goulburn Is.	148.51, 34.76
VE9BJ	St. Johns		VGTV	Norshore	198.7	VK2BL	Sydney	28.80, 32.50
VE9BK	Vancouver, B. C.	187, 125.1	VGVN	Nowan	198.7	VK2FC	Sydney	28.5, 31.28
VE9BL	Elk Point, Ont.	185.2, 109.5, 90	VGVY	Peerless	198.7	VK2ME	Sydney	28.5, 18.3, 31.28, 37.69
VE9BM	Montreal	187, 125.1, 92.1, 46.7	VGXZ	R. F. M.	198.7	VK3LO	Melbourne	31.56
VE9BO	Lake St. Joseph	185.2, 109.5, 90	VGYA	Czar	198.7	VK3ME	Melbourne	31.56
VE9BP	Powell River, B. C.	135.6, 99.5, 55.71	VGXK	S. Faith	198.7	VK3UZ	Melbourne	34
VE9BR	Armstrong, Ont.	185.2, 109.5, 90	VGXL	Prospective	198.7	VK6AG	Perth	41.7
VE9BT	Fort Hope, Ont.	185.2, 109.5, 90	VGXN	Sea Lion	198.7	VLA	Cape Bruny	183.983
VE9BU	Cariboro Lake, Ont.	185.2, 109.5, 90	VGXO	La Reine	198.7	VLB	Otaga, New Zealand	183.983
VE9BV	Little Athabasca Lake, Ont.	185.2, 109.5, 90	VGYC	Coutelle	198.7	VLJ	Tasmania	190
VE9BX	Stimson, Ont.	185.2, 109.5, 90	VGYD	Venedor	198.7	VLK	Sydney	32.15, 30.73, 22.49, 18.37, 17.016
VE9BZ	Vancouver, B. C.	109.5, 105.3	VGYF	Venture	198.7	VLT	Buloville, Dut. New Guinea	105.44, 86.21, A-2
VE9CA	Calgary, Alberta		VGYG	Wilimurdel	198.7	VLU	Lae, Dutch New Guinea	105.44, 86.21, A-2
VE9CE	Campbell R. R., B. C.	86.7	VGYH	Columbus	198.7	VLZ	Sydney	37.59, 30.73, 22.49, 14.70
VE9CF	Halifax Nova Scotia		VGYI	Chilliwack	198.7	MG	Apia, Samoa	20.4, 18.37
VE9CG	Calgary, Alta.	90.04, 18.973	VGYJ	Eva R.	198.7	VMS	Sydney	43, 19.39
VE9CH	Geizers Hill, Nova Scotia	108.8	VGYK	Eunice B.	198.7	VOF	Batu Aman, Surawak	
VE9CI	London, Ont.	52.5, 49.5	VGYW	Sea Liell	198.7	VQJ	Malbo	35
VE9CL	Mount Dennis, Ont.	187, 125, 92.1, 46.7	VGZK	P. L. M. 3	86.7, 46.7	VQL	Irene	35
VE9CM	Mt. Dennis, Ont.	23.35	VGZL	Island Comet	198.7	VOQM	Reo	35
VE9CN	Montreal		VGZM	P. T. B. No. 2	198.7	VOQN	Selmak	35
VE9CP	Toro Rapids, P. Q.	187, 68, 51.37, 42.98	VGZT	Canada	198.7	VOQP	Yamaska	35
VE9CQ	La Prairie, P. Q.	187, 125.1, 46.7, 23.35	VGZW	Queen	198.7	VOQR	Prince Albert	35
VE9CR	Vancouver, B. C.		VGZX	Commodore	198.7	VOQS	Casanova	35
VE9CT	Lulu Is., B. C.	135.6	VGZY	Princess Norah	198.7	VOQX	Chusina	35
VE9CU	Calgary, Alta.	49.96						
VEDDA	Otter Lake, Ont.	185.2, 109.5, 90	VHD	Sydney	35.355	VPA	Mataruma, Br. Guiana	43.86
VEDDB	Wenigkeekan, Ont.	185.2, 109.5, 90	VHJ	Victoria	44.60, 30.54, 22.30	VPB	Colombo, Ceylon	35.49
VEDDC	Kenora, Ont.	185.2, 109.5, 90	VHL	Melbourne	44	VPC	Falkland Is., So. Amer.	25.13, 22.84, 20.79
VEDDD	Manitou Lake, Ont.	185.2, 109.5, 90	VHM	Melbourne	44	VPD	Sura, Fiji Islands	20.70, 25.13
VEDDE	Sault Ste. Marie, Ont.	185.2, 109.5, 90	VHO	Victoria	140.186	VPE	Suva, Fiji Islands	43.79, 80.43
VEDDF	Pukaskwa, Ont.	185.2, 109.5, 90	VIA	Adelaide	A1, 50, 32.43, 26.089, 19.84, 197.368	VPF	Tareuni, Fiji Islands	43.79, 80.43
VEDDG	Oriente Bay, Ont.	185.2, 109.5, 90	VIB	Brisbane	50, 33.185, 21.5, 16.93	VPG	Gold Coast, W. Africa	32.08, 18.575
VEDDH	Barn Is., Ont.	185.2, 109.5, 90	VIC	Cooktown	37.5, 31.10, 21.9, 16.95	VPIA	Suva, Fiji Islands	20.8
VEDDI	North Bay, Ont.	185.2, 109.5, 90	VICE	Darwin	40.31, 31.847, 19.4, 17.22	VPN	Nassau, Nassau	74.34, 52.40, 52.38
VEDDJ	Latchford, Ont.	185.2, 109.5, 90	VIE	Esperance	37.03, 31.105, 21.4, 17	VPNL	Coronda, Falkland Is.	36.5, 31
VEDDN	Montreal, Que.		VIG	Port Moresby, New Guinea	41.09	VPNJ	Saragossa	36.5
VEDDR	Montreal, Que.		VIIH	Hobart, Tasmania	50.50, 31.813, 26.09, 17.2	VPRS	Southern Empress, Falkland Is.	36.5, 22.26
VEDDS	Mt. Royal, Que.		VIIJ	Thursday Is., Old Australia	37.40, 31.98, 21.79, 17.29	VPSJ	Discovery II	36.5, 26.59
VESED	Montreal, Que.		VIK	Samaria, Papua	43.79	VPSL	Salvettaria, Falkland Is.	36.5
VESEG	Calgary, Alta.	49.10	VIM	Tasmania	31.882	VPSM	Sourabaya, Falkland Is.	36.5
VEGWW	Bowmanville, Ont.	49.22	VIIW	Melbourne	74.63, 31.944, 16.17, 43.98	VPOQ	Kenya, Africa	36.74, 21.59
VEF9H	Timagami, Ont.					VPS	Cape D'Aigular, Hong Kong	34.52
VEFHP	Ear Falls, P. Q.	62.56, 51.77				WPW	Singapore, Straits Sett.	32.97
						VPX	Penang, Straits Sett.	36.19
						VZP	Zanzibar, Zanzibar	

Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)	Call Letters	Location	Wavelength (meters)
VQA	Jeseton, Bermuda	54.84, 29.67, 14.85	XIQ	Ningpo	32.9			
VQB	Sandakan, Bermuda	44.88, 29.41, 52.91	XJA	Hankow	32			
VQF	Batu Anam, Sarawak	34.44, 29.67, 27.83	XJB	Hankow	74, 32.5			
VQG	Kenya, Br. E. Africa	27.96, 15.283	XJC	Ichang	98			
VQL	Savusavu, Fiji Island	43.79, 30.43	XJD	Hankow	75, 37			
VQP	Miri, Saraiwa	34.44, 27.98	XJF	Hankow	34			
VQR	Kenya, Br. East Africa	53, 45.52, 42.98	XJG	Hankow	45			
		40.48, 32.02, 28.09	XJH	Ichang	40			
		25	XKE	Tientsin	80, 37.03			
VQV	Sabu, Sarawak	34.44	XXY	Kwaiyang				
VQ7LO	Nairobi, Br. E. Indies	31.2	XLA	Nanking	70, 38			
VRB	Kamakusa, Br. Guiana		XLB	Nanking	68			
VRL	Georgetown, British Guiana	54.59, 33.73	XLC	Shanghai	71, 31			
VRN	British Guiana	43.86	XLE	Canton	29			
VRO	Suva, Fiji Islands	80.43, 43.79	XLG	Swatow	75, 37.7			
VRR	Stony Hill, Jamaica, B. W. I.		XLH	Shanghai	60			
VRS	Mauritius	20.38, 31.76	XLY	Shanghai	62			
VRT	Hamilton, Bermuda	29.80, 59.42	XMH	Peking	75, 57, 38			
VRV	British Guiana, S. Am.	43.86, 30.99	XMP	Railroad				
VRW	British Guiana, S. Am.	43.86	XMT	Railroad				
VRX	Apoteri, Br. Guiana	43.86	XNB	Canton	38			
VRY	Dimerara, Br. Guiana	43.86	XNEF	Cheng King	175			
VSB	Nukualofo, Tonga	43.79	XNK	Nanking	36.6			
VTC	Baskah, Iraq		XOB	Shanghai	41.8			
VTU	Chebuda, British India	106	XOF	Chefoo	47, 37			
VUB	Bombay, India	49.10	XOM	Mukden				
VUC	Calcutta, India	25.274	XON					
VUD	Suva, Fiji Islands		XOW	Foochow	40			
VVC	Calcutta, India	38.96, 30.801	XPG	Shanghai	48			
VVD	Delhi, India	33.48	XPI	Pratas	48			
VVG	Ambala, India	50.12, 26.54	XPN	Kamen	48			
VWH	Ambala, India	28.867	XPR	Amoy	45			
VVJ	Poona, India	44.09, 27.77	XPZ	East Saddle	48			
VVK	Karachi, India	74.75, 30.045	XQM	Yannufu				
VVL	Lahore, India	38.24, 24.03	XRA	Shanghai	43			
VVM	Madras, India	23.041	XRA3	Shanghai	54			
VVN	Miransakat, India	35.84	XRA5	Shanghai	51, 32			
VVO	Kohat, India	34.88, 20.155	XRB	Nanking	66			
VVP	Peshawar, India	34.82	XRB2	Nanking	61, 37			
VVQ	Quetta, India	38.26, 24.291	XRC	Chungking				
VVR	Ranzoon, India	36.65, 32.57	XRE	Ichang	43			
VVS	Simala, India	33.241, 17.806	XRG1	Shanghai	37			
VVT	Lower Topa, India	86.95, 30.075	XRI	Nachang	38, 31			
VVV	Karachi, India	38.83	XRJ	Chungking	40, 32			
VVV	Mainital, India	16.36, 47.54	XRJ2	Chungking	65, 32			
VWW	Jubbulpore, India	31.712, 24.834	XRO	Chungking	47			
VVX	Raivalpindi, India	50.93, 33.094	XRP	Peking	70			
VVY	Simala, India	36.83	XRQ	Tsinan	69, 30			
VVZ	Quetta, India	39.92, 20.291	XRS	Wanksten	42			
VWK	Karachi, India	43.57	XRU	Taungming	69			
VWZ	Kirker, India	34.518, 34.50, 34.483, 34.455, 34.447	XRU2	Taungming	59.7			
			XRV	Tientsin	38			
			XRW	Foochow	51, 37			
			XRZ	Canton	38, 37, 33			
			XSD	Shanghai	31.6			
			XSG	Woosung	60, 50, 48			
			XSL	Wanshien				

XAA-XFZ—MEXICO

XAA	Vera Cruz	44
XAC	Payo Obispo	48, 37
XAE	Mazatlan	43, 34
XAF	Lower California	34, 29
XAM	Hermosilla	32
XAJ	Tampico	
XAK	Acapulco	63, 37.5
XAL	Cozumel	61.25, 39.5, 31.5
XAM	Merida Vacatan	63.48
XAP	Villahermosa	42, 34
XAQ	Campeche	65, 31.5
XAR	Campeche	42
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XDA	Mexico City	45.1, 38.5, 33.93, 30.82, 50
XDA	Mexico City	31.90, 15.95
XDB	Teleg. with Europe	15.9, 31.8
XDC	Chapultepec	
XDD	Saltillo de Coahuila	
XDC	Torreón de Coahuila	
XDD	Mexico	
XDH	Guadahajari	48, 38
XDI	Oaxaca	
XDJ	Mexicali	45
XDK	Mexico City	43, 42
XFA	Mexico City	45, 33.27

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XGB	Shanghai	37
XGC	Shanghai	66, 33
XGD	Shanghai	71, 64
XGE	Anking	66, 43
XGF	Moukden	41
XGG	Moukden	45
XGH	Niacop	72, 34
XGJ	Hainehow	70
XGK	Shanghai	16.04
XGL	Shanghai	37.64
XGM	Shanghai	17
XGN	Shanghai	17
XGO	Shanghai	39.58
XGP	Shanghai	69, 36.8
XGQ	Shanghai	69, 35.8
XGR	Shanghai	26, 16
XGW	Shanghai	28.79
XHA	Peiping	70, 35.1
XHB	Tientsin	32
XHC	Tsinan	53, 42
XHD	Taingtan	75, 30
XIA	Amoy	31.8
XIB	Fonehow	60, 32
XIC	Swatow	69
XID	Canton	39
XIG	Swatow	68, 32
XIH	Amoy	66, 36
XIK	Wuhu	75, 44
XIO	Tinghain	57

KILOCYCLE-METER CONVERSION

In short-wave (high frequency) work it is sometimes more convenient to express the tuning of a station in terms of frequency rather than wavelength. The standard frequency unit is the "kilocycle" (1000 cycles); the unit of wavelength the "meter." It is a very simple matter to convert frequency in kilocycles into wavelength in meters, or vice versa. To obtain kilocycles, divide 300,000 by the number of meters; to obtain meters, divide 300,000 by the number of kilocycles.

Thus a wavelength of 30 meters is the same as saying a frequency of 10,000 kilocycles (abbreviated "kc."). A frequency of 20,000 kc. is the same as 15 meters.

Call Letters	Location	Wavelength (meters)	YIA-YIZ—IRAQ
YID	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIF	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIG	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIH	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIJ	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIK	Bagdad	67.12, 44.74, 36.88, 22.37, 20.7, 16.01	
YIL	Ruthbah	66.8	

YLA-YLZ—LATVIA

YLA	Riga	44.9, 24
YLB	Liepaja	44.9, 24
YLK	Liepaja	76
YLN	Liepaja	37.5
YLS	Riga	60
YLT	Riga	30

YNA-YNZ—NICARAGUA

YNA	Managua	63.82, 49.71, 38.47, 38.51, 38.18, 38.14, 33.87, 31.47, 27.80, 25.23
YNB	Bluefields	61.22, 38.96, 35.75, 32.64, 25.75, 20.66
YNC	Cape Gracias	58.65, 38.48, 38.05, 32.29, 28.62
YNE	Puerto Cabezas	
YNF	Rio Grande	
YNK	Managua	81
YNL	Managua	145.17, 20.80
YNP	Managua	43.668
YNR	Managua	44.085
YNU	Managua	

YVA-YVZ—VENEZUELA

YVC	Maracay	50.93, 38.25, 28.46
YVD	S. Cristobal	28.01
YVF	Maracaibo	28.071
YVP	Maracay	44.77
YVQ	Maracay	38.25, 31.83, 25.65, 18.39

ZBA-ZHZ—BRITISH COLONIES AND PROTECTORATES

ZBH	South Georgia, S. A.	13
ZBW	Hong Kong, China	
ZBZ	Dar-Es-Salam, Tanganyika	15.89
ZCE	Victoria Peak, China	22.034
ZCF	Cape of Agnilar, China	28.20
ZCG	Cape D'Agnilar, China	31.78
ZCH	Victoria Peak, Hong Kong, China	50.04
ZCI	Victoria Peak, Br. Congo	43.38
ZCJ	Victoria Peak, Hong Kong	34.68
ZCK	Cape Aguila, China	13
ZDI	Nassau, Bahamas	54.59
ZDN	Lagos, Nigeria	37.08
ZDO	Badagry, Nigeria	37.08
ZDP	Victoria, Nigeria	34.09, 33.9
ZDQ	Mamp, Nigeria	33.9
ZDR	Kaduna, Nigeria	34.05, 33.97, 33.86
ZDT	Bamenda, Nigeria	33.9
ZDV	Windward Isla., B. W. I.	54.7
ZDW	Trinidad, B. W. I.	54.55, 33.73
ZDX	Leeward Isla., B. W. I.	58.68, 54.59, 33.73
ZDZ	Belize, Br. Honduras	58.68, 54.59, 37.34, 24.61
ZEA	Salsbury, Rhodesia	43.99, 40.50, 28.1, 25.4, 28.94, 24.74
ZEB	Bulawayo, Rhodesia	43, 39.47, 28.94, 24.74
ZET	Kingston, Jamaica	98.68, 54.74
ZEU	Potaro, Br. Guiana	43.88
ZKR	Cook Island, New Zealand	51.72, 25
ZLB	Awarua, New Zealand	47.24, 33.70
ZLF	Wellington, New Zealand	44.14, 35.005, 43.16
ZLI	White Island, New Zealand	80
ZLT	Wellington, New Zealand	40.6, 33.7, 24.4
ZLW	Wellington, New Zealand	A2, 27.3, 36.5, A2, 25.4, 20.58
ZL3CZ	Christchurch, New Zealand	50.0
ZMA	Apia, Samoa Is.	52.17
ZMDY	Maunganni, New Zealand	36.18
ZMGK	Southern Prince, New Zealand	36.5, 26.59
ZMP	Aleipata, Samoa	40
ZMS	Salalua, Samoa	42.9
ZIC	Christchurch, New Zealand	50
ZPR	Asuncion, Paraguay	34.48
ZPZ	Asuncion, Paraguay	16.084, 16.083, 16.082, 16.081, 16.077, 16.078, 16.072, 16.077, 16.069
ZSS	Cape of Good Hope, So. Africa	
ZSP	Kildalkey, Union of So. Africa	45
ZSBX	Radioleine, Br. So. Africa	46
ZSC	Capetown, So. Africa	33.85, 17.8
ZSD	Jacobse Radio, So. Africa	36, 17.8
ZSDM	Tafelberg, Br. So. Africa	36.6, 35.1, 33.7
ZSU	Capetown, So. Africa	
ZSV	Walvia Bay, So. Africa	36.5, 17.8
ZTG	Germann, So. Africa	45.5
ZLO	Kenya, Africa	
3XX	Ronkaza Park, China	

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-

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

Station	Dial	Station	Dial	Station	Dial	Station	Dial
31000 kc. W8XI 9.68 meters Westinghouse Electric SAXONBURG, PA.		20140 kc. DWG 14.89 meters NAUEN, GERMANY Tests 10 a.m.-3 p.m.		18100 kc. GBK 16.57 meters General Post Office BODMIN, ENGLAND		17080 kc. GBC 17.55 meters RUGBY, ENGLAND	
27800 kc. W6XD 10.79 meters Mackay Radio PALO ALTO, CALIF.		19950 kc. LSG 15.03 meters MONTE GRANDE, ARGENTINA From 7 a.m. to 1 p.m. Telephony to Paris and Berlin		18050 kc. KQJ 16.61 meters BOLINAS, CALIF. Transpacific radiophone		16300 kc. PCL 18.40 meters KOOTWIJK, HOLLAND Works with Bandoeng from 7 a.m.	
25960 kc. G5SW 11.55 meters British Broad. Corp. CHELMSFORD, ENGLAND Experimental, relay broadcasting		19950 kc. DIH 15.03 meters NAUEN, GERMANY		17850 kc. PLF 16.80 meters BANDOENG, JAVA ("Radio Malabar")		16300 kc. WLO 18.40 meters A. T. & T. CO., LAWRENCE, N. J.	
25700 kc. W2XBC 11.67 meters Radio Corp. of America NEW BRUNSWICK, N. J.		19906 kc. LSG 15.07 meters MONTE GRANDE, ARGENTINA 8.10 a.m., commercial radiophone		17850 kc. W2XAO 16.80 meters Radio Corp. of America NEW BRUNSWICK, N. J.		16200 kc. FZR 18.50 meters SAIGON, INDO-CHINA Radiophone to Paris	
24000 kc. W6XQ 12.48 meters SAN MATEO, CALIF.		19850 kc. WMI 15.10 meters A. T. & T. CO., DEAL, N. J.		17830 kc. PCV 16.82 meters KOOTWIJK, HOLLAND 9:40 a.m. Sat.		16150 kc. GBX 18.56 meters RUGBY, ENGLAND	
21540 kc. ★W8XK 13.93 meters WESTINGHOUSE ELECTRIC SAXONBURG, PA. 7:30 a.m.-noon; relays KDKA programs		19830 kc. FTD 15.12 meters ST. ASSISE, FRANCE		17780 kc. ★W8XK 16.87 meters WESTINGHOUSE ELECTRIC AND MFG. CO. Saxonburg, Pa. Relays KDKA programs		16060 kc. ★NAA 18.68 meters U. S. NAVY, ARLINGTON, VA. Time signals, 11:57 to noon	
21470 kc. ★GSH 13.97 meters BRITISH BROAD. CORP. Daventry, England British Empire programs		19400 kc. FRO, FRE 15.45 meters ST. ASSISE, FRANCE		17780 kc. W3XAL 16.87 meters NATIONAL BROAD. CO. Bound Brook, N. J. Experimental; relays WJZ programs		15950 kc. PLG 18.90 meters BANDOENG, JAVA Afternoons.	
21420 kc. W2XDJ 14.00 meters A. T. & T. CO., DEAL, N. J. Experimental radiophone		19300 kc. FTM 15.55 meters ST. ASSISE, FRANCE 10 a.m. to noon		17780 kc. W9XF 16.87 meters DOWNTOWN GROVE, ILL. Irregular; relays NBC programs		15860 kc. FTK 18.90 meters ST. ASSISE, FRANCE Commercial radiophone	
21400 kc. WLO 14.01 meters A. T. & T. CO. Lawrence, N. J. Transoceanic phone		19240 kc. DFA 15.58 meters NAUEN, GERMANY		17770 kc. ★GSG 16.88 meters, British Broad. Corp. DAVENTRY, ENGLAND British Empire programs		15490 kc. JIAA 19.36 meters TOKIO, JAPAN 5:00-7:00 a.m.	
21130 kc. LSM 14.15 meters MONTE GRANDE, ARGENTINA Commercial radiophone; occasional broadcasting.		19220 kc. WNC 15.60 meters A. T. & T. CO., DEAL, N. J. Transoceanic radiophone		17770 kc. PHI 16.88 meters HUIZEN, HOLLAND Experimental		15330 kc. ★W2XAD 19.56 meters GENERAL ELECTRIC CO. Schenectady, N. Y. Relays NBC and WGY programs	
21020 kc. LSN 14.27 meters (Hurlingham), Buenos Aires, Argentina Commercial radiophone; occasional broadcasting.		18820 kc. PLE 15.94 meters BANDOENG, JAVA. 8:40-10:40 a.m. Phone service to Holland		17640 kc. Ship. 17.00 meters SHIP Phones to Shore WSBN, "Leviathan" GFWV, "Majestic" GLSQ, "Olympic" GDLJ, "Homeric" GMQJ, "Belgenland" Work on this and higher channels		15300 kc. OXY 19.60 meters LYNGBY, DENMARK Experimental & relay broadcasting	
21000 kc. OKI 14.28 meters PODEBRADY, CZECHOSLOVAKIA		18620 kc. GBU 16.11 meters General Post Office RUGBY, ENGLAND		17380 kc. JIAA 17.25 meters TOKIO, JAPAN		15270 kc. ★W2XE 19.65 meters COLUMBIA BROAD. SYS. Wayne, N. J. 11:00 a.m.-1:00 p.m.	
20730 kc. LSY 14.47 meters MONTE GRANDE, ARGENTINA Commercial radiophone; occasional broadcasting.		18370 kc. PMC 16.33 meters BANDOENG, JAVA.		17300 kc. W8XL 17.34 meters DAYTON, OHIO		15240 kc. ★FYA 19.68 meters "RADIO COLONIAL" Pontoise (Paris), France Service de la Radiodiffusion, 103 Rue de Grenelle, Paris Daily 7:00-10:00 a.m. Also during late afternoon	
20680 kc. LSN 14.50 meters MONTE GRANDE, ARGENTINA after 10:30 p.m. Telephony with Europe		18350 kc. WND 16.35 meters DEAL BEACH, N. J.		17300 kc. W6XAJ 17.34 meters OAKLAND, CALIF.		15210 kc. ★W8XK 19.72 meters WESTINGHOUSE ELECTRIC & MFG. CO. Saxonburg, Pa. 7:30 a.m. to 5 p.m. Relays KDKA programs	
20680 kc. LSX 14.50 meters BUENOS AIRES Telephony with U. S., also occasional broadcasting		18310 kc. GBS 16.38 meters General Post Office RUGBY, ENGLAND Telephony with New York		17300 kc. W9XL 17.34 meters ANOKA, MINN.		15200 kc. DJB 19.73 meters ZEESEN, GERMANY	
20680 kc. FSR 14.50 meters PARIS-SAIGON PHONE		18310 kc. FZS 16.38 meters SAIGON, INDO-CHINA 1 to 3 p.m. Sundays		17110 kc. WOO 17.52 meters A. T. & T. CO., DEAL, N. J. Transoceanic radiophone		15140 kc. GSF★ 19.81 meters BRITISH BROAD. CORP. Daventry, England British Empire programs	
20620 kc. PMB 14.54 meters Bandoeng, Java After 4 a.m.; radiophone to Holland		18240 kc. FRO, FRE 16.44 meters ST. ASSISE, FRANCE		17110 kc. W2XOD 17.52 meters A. T. & T. CO. OCEAN GATE, N. J.		15120 kc. ★HVJ 19.83 meters VATICAN CITY Rome, Italy Daily 5:00 to 5:15 a.m.	
		81170 kc. CGA 16.50 meters DRUMMONDVILLE, QUEBEC CANADA Telephony to England					

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Station	Dial	Station	Dial	Station	Dial	Station	Dial
15120 kc. JIAA 19.83 meters TOKIO, JAPAN Irregular, early morning.		12150 kc. GBS 24.68 meters RUGBY, ENGLAND transatlantic phone to Dea' N. J. (New York)		11760 kc. XDA 25.50 meters TRENS-NEWS AGENCY Mexico City 3-4 p. m.		10390 kc. GBX 28.86 meters RUGBY, ENGLAND	
15075 TI4NRH 19.9 meters HEREDIA, COSTA RICA, C. A.		12150 kc. FQO, FQE 24.68 meters STE. ASSISE, FRANCE		11760 kc. DJD 25.50 meters ZEESEN, GERMANY		10350 kc. LSX 28.98 meters BUENOS AIRES, ARGENTINA Commercial radiophone	
15000 kc. CM6XJ 19.99 meters CENTRAL TUINUCU, CUBA Irregular		12045 kc. ★NAA 24.89 meters ARLINGTON, VA. Time signals, 11:57 to noon.		11750 kc. ★GSD 25.53 meters BRITISH BROAD. CORP. Daventry, England British Empire programs		10250 kc. TI4NRH 29.30 meters AMONDO CESPEDES MARIN Heredia, Costa Rica Mon. and Wed., 7:30 to 8:30 p. m.; Thurs. and Sat., 9:00 to 10 p. m.	
14620 kc. XDA 20.50 meters TRENS-NEWS AGENCY Mexico City 2:30-3 p. m.		12045 kc. ★NSS 24.89 meters ANNAPOLIS, MD. Time signals, 9:57-10 p. m.		11750 kc. ★VE9JR 25.53 meters WINNIPEG, CANADA Weekdays, 5:30-7:30 p. m.		10150 kc. DIS 29.54 meters NAUEN, GERMANY Press (code) daily; 6 p. m., Spanish; 7 p. m., English; 7:50 p. m., German; 2:30 p. m., English; 5 p. m., German; Sundays: 6 p. m., Spanish; 7:50 p. m., German; 9:30 p. m., Spanish	
14530 kc. LSA 20.65 meters BUENOS AIRES, ARGENTINA		12000 kc. FZG 24.98 meters SAIGON, INDO-CHINA Time signals, 2-2:05 p. m.		11730 kc. PHI 25.57 meters HUIZEN, HOLLAND		10000 kc. 30 meters BELGRADE, JUGO-SLAVIA	
14480 kc. GBW 20.70 meters RADIO SECTION General Post Office, London E. C. I. Rugby, England		11945 kc. KKQ 25.10 meters BOLINAS, CALIF.		11705 kc. ★FYA 25.6 meters "RADIO COLONIAL" Pontoise (Paris) Daily, 3:00-6:00 p. m.		9950 kc. GBU 30.15 meters RUGBY, ENGLAND	
14480 kc. WNC 20.70 meters A. T. & T. CO., DEAL, N. J. Transoceanic radiophone		11905 kc. ★FYA 25.16 meters "RADIO COLONIAL" Pontoise, Paris Daily 10:30 a. m.-2:00 p. m.		11690 kc. ★YVQ 25.65 meters MARACAY, VENEZUELA (Also broadcasts occasionally)		9890 kc. LSN 30.30 meters BUENOS AIRES Phone to Europe	
14420 kc. VPD 20.80 meters SUVA, FIJI ISLANDS		11880 kc. ★W9XF 25.24 meters NATIONAL BROADCASTING CO. Downers Grove (Chicago), Ill. 9-10 p. m. daily; relays NBC programs		11670 kc. KIO 25.68 meters KAHUHU, HAWAII		9890 kc. LSA 30.30 meters BUENOS AIRES	
14150 kc. KKZ 21.17 meters BOLINAS, CALIF.		11870 kc. VUC 25.26 meters CALCUTTA, INDIA 9:45-10:45 p. m.; 8-9 a. m.		11530 kc. CGA 26.00 meters DRUMMONDVILLE, CANADA		9860 kc. ★EAQ 30.4 meters TRANSRADIO ESPANOLA Alcala 43-Madrid, Spain (P. O. Box 951) 5:30-7:00 p. m. daily	
13400 kc. WND 22.38 meters A. T. & T. CO., DEAL BEACH, N. J. Transoceanic telephony		11870 kc. ★W8XK 25.26 meters WESTINGHOUSE ELECTRIC East Pittsburgh, Pa. 4-10 p. m., relays KDKA programs		11490 kc. GBK 26.10 meters BODMIN, ENGLAND		9790 kc. GBW 30.64 meters RUGBY, ENGLAND	
12880 kc. CNR 23.38 meters RABAT, MOROCCO, AFRICA		11865 kc. ★GSE 25.28 meters British Broad. Corp. DAVENTRY, ENGLAND British Empire programs		11470 kc. IBDK 26.15 meters S.S. "ELETRA" Marconi's yacht		9750 kc. WNC 30.75 meters DEAL, N. J.	
12850 kc. W2XO 23.35 meters GENERAL ELECTRIC CO. Schenectady, N. Y. Experimental radiophone and relay broadcasting		11840 kc. W9XAO 25.34 meters CHICAGO FEDERATION OF LABOR Chicago, Ill. Relays WCFL programs		11435 kc. DHC 26.22 meters NAUEN, GERMANY		9700 kc. WMI 30.90 meters DEAL, N. J.	
12850 kc. W2XCU 23.35 meters AMPERE, N. J.		11830 kc. ★W2XE 25.36 meters COLUMBIA BROADCASTING SYS., Wayne, N. J. 3:00-5:00 p. m.		11340 kc. DAN 26.44 meters NORDEICH, GERMANY Time signals, 7 a. m., 7 p. m. Deutsche Seewarte, Hamburg		9675 kc. ★T14NRH 31 meters HEREDIA, COSTA RICA, C. A.	
12850 kc. W9XL 23.35 meters ANOKA, MINN..		11810 kc. ★I2RO 25.4 meters "RADIO ROMA NAPOLI" Rome, Italy Daily, 11:30 a. m. to 12:15 p. m. and 2:00-6:00 p. m. Sunday, 11:00 a. m.-12:15 p. m. Woman announcer		10980 kc. ZLW 27.30 meters WELLINGTON, N. Z. Tests 3-8 a. m.		9640 kc. HSP2 31.10 meters BROADCASTING SERVICE Post and Telegraph Department Bangkok, Siam 9-11 a. m., daily	
12820 kc. ★CNR 23.38 meters DIRECTOR GENERAL Telegraph and Telephone Stations, Rabat, Morocco Sun., 7:30-9 a. m. Daily, 5-7 a. m. Telephony		11800 kc. ★VE9GW 25.42 meters W. A. SHANE, CHIEF ENGINEER Bowmanville, Canada Daily, 1-4 p. m.		10630 kc. PLR 28.20 meters BANDOENG, JAVA Works with Holland and France weekdays from 7 a. m.; sometimes after 9:30		9600 kc. ★CTIAA 31.25 meters LISBON, PORTUGAL Tues. and Friday, 4:30-7:00 p. m.	
12780 kc. GBC 23.46 meters RUGBY, ENGLAND		11790 kc. WIXAL 25.45 meters BOSTON, MASS.	28 103 40	10540 kc. WLO 28.44 meters A. T. & T. CO., LAWRENCE, N. J. Transoceanic radiophone		9600 kc. LQA 31.25 meters BUENOS AIRES	
12290 kc. GBU 24.41 meters RUGBY, ENGLAND		11780 kc. ★VE9DR 25.47 meters DRUMMONDVILLE, QUEBEC Canada Irregular		10540 kc. VLK 28.44 meters SYDNEY, AUSTRALIA Commercial radiophone		9600 kc. LGN 31.23 meters BERGEN, NORWAY	
12250 kc. FTN 24.46 meters STE. ASSISE (PARIS), FRANCE Works Buenos Aires, Indo- China and Java. On 9 a. m. to 1 p. m. and other hours				10410 kc. PDK 28.80 meters KOOTWIJK, HOLLAND		9595 kc. ★HBL 31.27 meters League of Nations GENEVA, SWITZERLAND	
12250 kc. GBS 24.46 meters RUGBY, ENGLAND				10410 kc. KEZ 28.80 meters BOLINAS, CALIF.		9590 kc. ★VK2ME 31.28 meters AMALGAMATED WIRELESS, Ltd., Sydney, Australia Sun., 1-3 a. m., 5-9 a. m., 9:30- 11:30 a. m.	
12250 kc. PLM 24.46 meters BANDOENG, JAVA Radiophone to Holland				10410 kc. LSY 28.80 meters BUENOS AIRES, ARGENTINA			

Station	Dial	Station	Dial	Station	Dial	Station	Dial
9585 kc. ★GSC 31.29 meters BRITISH BROAD. CORP. Daventry, England British Empire programs		9200 kc. GBS 32.61 meters RUGBY, ENGLAND Transatlantic phone		8120 kc. PLW 36.92 meters BANDOENG, JAVA		7220 kc. HB9D 41.50 meters ZURICH, SWITZERLAND 1st and 3rd Sundays at 7 a.m., 2 p. m.	
9580 kc. ★W3XAU 31.32 meters BYBERRY (Philadelphia), PA. relays WCAU daily		9010 kc. GBS 33.30 meters RUGBY, ENGLAND		8100 kc. EATH 37.02 meters VIENNA, AUSTRIA Mon. and Thurs., 5:30 to 7 p. m.		7195 kc. VSIAB 41.67 meters SINGAPORE, S. S. Mon., Wed. and Fri., 9:30-11 a. m.	
9570 kc. ★WIXAZ 31.35 meters WESTINGHOUSE ELECTRIC & MFG. CO. Springfield, Mass. 6 a. m.-10 p. m., daily		8928 kc. TGX 33.50 meters GUATEMALA CITY, C. A.		7390 kc. DOA 37.80 meters DOEBERITZ, GERMANY 1 to 3 p. m. Reichpostzentralamt, Berlin		7140 kc. HKX 42.00 meters BOGOTA, COLOMBIA Irregular	
9570 kc. SRI 31.35 meters POZNAN, POLAND Tues., 2:00-5:00 p. m.; Wed., 7:00-8:00 a. m.; Thurs., 2:00- 3:30 p. m.		8872 kc. NPO 33.81 meters CAVITE (MANILA) Philippine Islands Time signals 9:55-10 p. m.		7890 kc. VPD 38.00 meters SUVA, FIJI ISLANDS		7020 kc. EAR125 42.70 meters MADRID, SPAIN Irregular	
9560 kc. ★DJA 31.38 meters REICHSPOSTZENTRALAMT 11-15 Schoenberge Strasse (Berlin) Konigs wusterhausen, Germany		8872 kc. ★NAA 33.81 meters ARLINGTON, VA. Time signals 9:57-10 p. m., 2:57-3 p. m.		7880 kc. JIAA 38.07 meters TOKIO, JAPAN Broadcasting 5:00-7:00 a. m.		6990 kc. ★CTIAA 42.90 meters LISBON, PORTUGAL Fridays, 5-7 p. m.	
9530 kc. ★W2XAF 31.48 meters GENERAL ELECTRIC CO. Schenectady, N. Y. Relays NBC and WGY programs		8810 kc. WSBN 34.05 meters S.S. "LEVIATHAN"		7830 kc. PDV 38.30 meters KOOTWIJK, HOLLAND After 9 a. m.		6976 kc. EAR110 43 meters MADRID, SPAIN Tues., Sat., 5:30 p. m.	
9520 kc. ★OXY 31.51 meters SKAMLEBOEK, DENMARK Daily from 1:00 p. m.		8690 kc. W2XAC 34.50 meters SCHEECTADY, NEW YORK		7799 kc. ★HBP 38.47 meters LEAGUE OF NATIONS, GENEVA, SWITZERLAND		6875 kc. F8MC 43.60 meters CASABLANCA, MOROCCO Sun., Tues., Wed., Sat.	
9510 kc. ★GSB 31.55 meters BRITISH BROAD. CORP. Daventry, England British Empire programs		8650 kc. W2XCU 34.68 meters AMPERE, N. J.		7770 kc. FTF 38.60 meters STE. ASSISE, FRANCE		6860 kc. KEL 43.70 meters BOLINAS, CALIF. Transpacific Radiophone	
9510 kc. ★VK3ME 31.55 meters AMALGAMATED WIRELESS, Ltd. 167-169 Queen St., Melbourne, Australia Wed., 5:00-6:30 a. m., Sunday, 5:00-7:00 a. m.		8650 kc. W2XV 34.68 meters RADIO ENGINEERING LAB. Long Island City, N. Y.		7770 kc. PCK 38.60 meters KOOTWIJK, HOLLAND 9 a. m. to 7 p. m.		6860 kc. Radio Vitus 43.70 meters PARIS, FRANCE 4-11 a. m. 3 p. m.	
9375 kc. EH9OC 32.00 meters BERNE, SWITZERLAND 3:50 p. m.		8650 kc. W8XAG 34.68 meters DAYTON, OHIO		7660 kc. FTL 39.15 meters STE. ASSISE, FRANCE		6840 kc. CFA 43.80 meters DRUMMONDVILLE, CANADA	
9330 kc. CGA 32.15 meters 5:00-7:00 a. m. DRUMMONDVILLE, CANADA		8650 kc. VE9BY 34.68 meters LONDON, ONTARIO, CANADA		7612 kc. HKF 39.40 meters BOGOTA, COLOMBIA 8-10 p. m.		6753 kc. WND 44.40 meters DEAL, N. J.	
9310 kc. GBC 32.22 meters RUGBY, ENGLAND Sundays, 2:30-5 p. m.		8650 kc. W4XG 34.68 meters MIAMI, FLA.		7612 kc. X26A 39.4 meters NUEVO LAREDO, MEXICO		6660 kc. F8KR 45 meters CONSTANTINE, ALGERIA Mon., Fri., 5 p. m.	
9300 kc. CNR 32.26 meters RABAT, MOROCCO Sunday 2:00-4:00 p. m.		8650 kc. W3XX 34.68 meters WASHINGTON, D. C.		7530 kc. EI Prado 39.80 meters Ribobamba, Ecuador Thurs., 9-11 p. m.		6660 kc. HKM 45 meters BOGOTA, COLOMBIA 9-11 p. m.	
9250 kc. GBK 32.40 meters BODMIN, ENGLAND		8630 kc. WOO 34.74 meters DEAL, N. J.		7520 kc. CGE 39.74 meters CALGARY, CANADA Testing, Tues., Thurs.		6660 kc. TGW 45 meters GUATEMALA CITY, C. A.	
9230 kc. FLJ 32.50 meters PARIS, FRANCE (Eiffel Tower). Time signals 2:56 a. m. and 2:56 p. m.		8630 kc. W2XDO 34.74 meters OCEAN GATE, N. J.		7460 kc. YR 40.20 meters LYONS, FRANCE Daily except Sun., 10:30 to 1:30 a. m.		6515 kc. WOO 46.05 meters DEAL, N. J.	
		8570 kc. ★RV15 35.00 meters FAR EAST RADIO STATION Khabarovsk, Siberia 5-7:30 a. m.		7444 kc. HBQ 40.3 meters LEAGUE OF NATIONS, GENEVA, SWITZERLAND		6438 kc. REN 46.6 meters MOSCOW, U. S. S. R.	
		8550 kc. WOO 35.09 meters OCEAN GATE, N. J.		7320 kc. ZTJ 40.90 meters JOHANNESBURG, SO. AFRICA 9:30 a. m.-2:30 p. m.		6425 kc. W9XL 46.70 meters ANOKA, MINN.	
		8450 kc. PRAG 35.50 meters PORTO ALEGRE, BRAZIL 8:30-9:00 a. m.		7230 kc. DOA 41.46 meters DOEBERITZ, GERMANY Irregular			

SHORT WAVE LOG AND CALL BOOK, SUMMER, 1933

Station	Dial	Station	Dial	Station	Dial	Station	Dial
6425 kc. ★W3XL 46.70 meters NATIONAL BROADCASTING CO. Bound Brook, N. J. Relays WJZ programs		6120 kc. ★YV1BC 49.02 meters CARACAS, VENEZUELA 8:00-10:00 p. m. nightly		Nairobi, Kenya, Africa Monday, Wednesday, Friday, 11 a. m.-2:30 p. m.; Tuesday, Thursday, 11:30 a. m.-3:30 p. m.; Saturday, 11:30 a. m.-3:30 p. m.; Sunday, 11 a. m.-1:30 p. m.; Tuesday, 3 a. m.-4 a. m.; Thursday, 8 a. m.-9 a. m.		6000 kc. ★RV59 50 meters RADIO MOSCOW, U. S. S. R. 2:00-5:00 p. m. daily	
6425 kc. VE9BY 46.7 meters LONDON, ONTARIO, CANADA		6110 kc. VE9CG 49.10 meters CALGARY, ALTA., CANADA		6060 kc. CMCI 49.5 meters HAVANA, CUBA 9:00-11:00 p. m.		5970 kc. ★HVJ 50.26 meters VATICAN CITY (ROME) 2-2:15 p. m., daily. Sun., 5:50 a. m.	
6420 kc. RV62 46.72 meters MINSK, U. S. S. R. Irregular		6110 kc. VUC 49.1 meters CALCUTTA, INDIA		6100 kc. ★W3XAL 49.15 meters NATIONAL BROADCASTING CO. Bound Brook, N. J. Relays WJZ programs		6060 kc. ★W3XAU 49.50 meters BYBERRY, PA. Relays WCAU, Philadelphia	
6382 kc. HC1DR 47.00 meters QUITO, ECUADOR 8-11 p. m.		6100 kc. VE9CF 49.15 meters HALIFAX, N. S., CANADA 6-10 p. m., Tues., Thurs., Fri.		6050 kc. ★GSA 49.58 meters BRITISH BROAD. CORP. Daventry, England British Empire programs		5900 kc. HKO 50.80 meters MEDELLIN, COLOMBIA 8-11 p. m., except Sunday	
6335 kc. VE9AP 47.35 meters DRUMMONDVILLE, CANADA		6100 kc. ★W9XF 49.18 meters DOWNERS GROVE, ILL. Relays WENR, Chicago		6050 kc. VE9CF 49.59 meters HALIFAX, N. S., CANADA 11 a. m.-noon, 5-6 p. m. On Wed., 8-9; Sun., 6:30-8:15 p. m.		5857 kc. XDA 51.22 meters MEXICO CITY, MEXICO	
6270 kc. HKC 47.81 meters BOGOTA, COLOMBIA 8:30-11:30 p. m.		6095 kc. ★VE9GW 49.17 meters BOWMANVILLE, ONTARIO, CANADA 5:00 p. m. to midnight		6040 kc. PK3AN 49.67 meters SOURABAYA, JAVA 6-9 a. m.		5835 kc. HKD 51.40 meters BARRANQUILLA, COLOMBIA 7:45-10:30 p. m., Mon.; Wed., 8-10:30 p. m.; Sunday, 7:45- 8:30 p. m. Elias J. Pellet.	
6243 kc. HKD 48.05 meters BARRANQUILLA, COLOMBIA		6080 kc. ★W9XAA 49.31 meters CHICAGO FEDERATION OF LABOR Chicago, Ill. Relays WCFL programs		6040 kc. ★W4XB 49.67 meters LAWRENCE E. DUTTON care Isle of Dreams Broadcast Corp., Miami Beach, Fla. until 10:00 p. m.		5710 kc. VE9CL 52.50 meters WINNIPEG, CANADA	
6250 kc. ★CN8MC 48 meters CASABLANCA, MOROCCO Monday, 3:00-4:00 p. m. Tuesday, 7:00, 8:00 a. m. and 3:00-4:00 p. m.		6075 kc. ★OXY 49.4 meters SKAMLEBOAEK, DENMARK		6040 kc. WIXAL 49.67 meters BOSTON, MASS.		5550 kc. W8XJ 54.02 meters COLUMBUS, OHIO	
6220 kc. ★I2RO 48.2 meters ROME, ITALY		6072 kc. UOR2 49.41 meters VIENNA, AUSTRIA		6030 kc. VE9CA 49.75 meters CALGARY, ALTA., CANADA		5170 kc. OK1MPT 58.00 meters PRAGUE, CZECHOSLOVAKIA 1-3:30 p. m., Tues. and Fri.	
6167 kc. XIF 48.65 meters MEXICO CITY, MEXICO		6069 kc. VE9CS 49.43 meters VANCOUVER, B. C., CANADA		6023 kc. XEW 49.8 meters MEXICO CITY, MEXICO		5170 kc. PMY 58.00 meters BANDOENG, JAVA	
6147 kc. ★VE9CL 48.8 meters WINNIPEG, CANADA 7:00-9:30 p. m.		6069 kc. JB 49.43 meters JOHANNESBURG, SOUTH AFRICA 10:30 a. m.-3:30 p. m.		6020 kc. DJC 49.83 meters ZEESEN, GERMANY		5170 kc. PMB 58.00 meters SOURABAYA, JAVA	
6140 kc. ★W8XK 48.86 meters WESTINGHOUSE ELECTRIC & MFG. CO. Saxonburg, Pa. Relays KDKA programs, 5 p. m.-midnight		6065 kc. SAJ 49.46 meters MOTALA, SWEDEN 6:30-7 a. m., 11 a. m. to 4:30 p. m.		6005 kc. VE9DR 49.96 meters CANADIAN MARCONI CO. Drummondville, Quebec 6-10 p. m. daily.		5714 kc. HCJB 52.5 meters QUITO, ECUADOR, S. A.	
6125 kc. VE9HX 48.98 meters HALIFAX, NOVA SCOTIA		6060 kc. ★W8XAL 49.50 meters CROSLEY RADIO CORP. Cincinnati, O. Relays WLW programs		6005 kc. VE9CU 49.75 meters CALGARY, CANADA Irregular		5145 kc. OK1MPT 58.31 meters PRAGUE, CZECHOSLOVAKIA	
6122 kc. ZTJ 49 meters JOHANNESBURG, SOUTH AFRICA 10:30 a. m.-3:30 p. m.		6060 kc. ZL2ZX 49.5 meters WELLINGTON, N. Z. Mon., Wed., Thurs., Sat., 10:15 a. m.-1:15 p. m.		6000 kc. ZGE 50 meters KUALA LUMPUR, MALAY STATES		4975 kc. W2XV 60.30 meters RADIO ENGINEERING LAB- ORATORIES, Inc. Long Island City, N. Y.	
6120 kc. ★W2XE 49.02 meters COLUMBIA BROADCASTING SYS. Wayne, N. J., 6:00-11:00 p. m.		6060 kc. EAJ25 50 meters BARCELONA RADIO CLUB, BARCELONA, SPAIN		6000 kc. EAJ25 50 meters BARCELONA RADIO CLUB, BARCELONA, SPAIN		4795 kc. W9XAM 62.56 meters ELGIN, ILL. (Time signals.)	
6120 kc. FL 49.02 meters EIFFEL TOWER, PARIS 5:30-5:45 a. m.; 5:45-12:30, 4:15- 4:45 p. m.		6060 kc. ★VQ7LO 49.50 meters IMPERIAL AND INTERNA- TIONAL COMMUNICATIONS, Ltd.		6000 kc. FIQA 49.97 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.		4795 kc. W9XL 62.56 meters CHICAGO, ILL. Irregular	
						4795 kc. VE9BY 62.56 meters LONDON, ONTARIO, CANADA	
						4770 kc. ZL2XX 62.80 meters WELLINGTON, NEW ZEALAND	

Station	Dial	Station	Dial	Station	Dial	Station	Dial
4760 kc. Radio LL 63.00 meters PARIS, FRANCE		4320 kc. G6RX 69.44 meters RUGBY, ENGLAND Experimental Radiophone		3750 kc. F8KR 80.00 meters CONSTANTINE, TUNIS, AFRICA Mon. and Fri.		3124 kc. WOO 96.03 meters DEAL, N. J.	
4750 kc. WOO 63.13 meters OCEAN GATE, N. J.		4310 kc. WTDV 69.60 meters VIRGIN ISLANDS		3750 kc. I3RO 80.00 meters PRATO EMERALDO, Rome, Italy Daily, 3-5 p. m.		3076 kc. W9XL 97.53 meters CHICAGO, ILL.	
4700 kc. WIXAB 63.79 meters PORTLAND, ME.		4273 kc. ★RV15 70.20 meters FAR EAST RADIO STATION Khabarovsk, Siberia Daily, 3-9 a. m.		3620 kc. DOA 82.90 meters DOEBERITZ, GERMANY		2590 kc. WOU 115.8 meters GREEN HARBOR, MASS. Commercial Radiophone, Ship Service	
4510 kc. VPN 66.5 meters NASSAU, BAHAMAS Radiophone to the U. S.		4116 kc. WOO 72.87 meters DEAL, N. J.		3560 kc. OZ7RL 84.24 meters COPENHAGEN, DENMARK Tues. and Fri. after 6 p. m.		2540 kc. WOX 118.06 meters STATEN ISLAND, N. Y. Experimental Radiophone	
4430 kc. DOA 67.65 meters DOEBERITZ, GERMANY 6-7 p. m., 2-3 p. m., Mon., Wed., Fri.		4105 kc. ★NAA 74.72 meters ARLINGTON, VA. Time signals, 9:57-10 p. m., 11:57 a. m. to noon		3256 kc. W9XL 92.50 meters CHICAGO, ILL.		2342 kc. W7XAW 128.09 meters FISHER'S BLEND, INC., Fourth Ave. and University St. Seattle, Washington	
4400 kc. DAF 68.18 meters NORDEN, GERMANY Commercial Radiophone to Ships		4000 kc. HCJB 75 meters QUITO, ECUADOR 9:30-9:45 p. m. daily		3156 kc. PK2AG 95.00 meters SAMARANG, JAVA		1560 kc. WIXAU 199.35 meters BOSTON, MASS.	

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.

According to frequency and wavelength <hr/> 1600-1700 kc. 176.5-187.5 m. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W2XR —Radio Pictures, Inc. Long Island City, N. Y. 1000 watts. 60 lines	W8XF —Goodwill Station Pontiac, Mich. 1000 watts	W2XAB —Atlantic Broadcasting Corp. New York, N. Y. 500 watts	W2XF —National Broadcasting Co. New York, N. Y. 5000 watts
	2100-2200 kc. 136.4-142.9 m. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W3XAK —National Broadcasting Co. 5000 watts. Portable		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. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W9XD —The Journal Co. Milwaukee, Wis. 500 watts
	W2XBBS —National Broadcasting Co. New York, N. Y. 5000 watts		W6XAO —Don Lee Broadcasting System Los Angeles, Calif. 150 watts
	W6XS —Don Lee Broadcasting Corp. Gardena, Calif. 1000 watts		W3XE —Philadelphia Storage Battery Co. Philadelphia, Pa. 1500 watts
	W9XAP —National Broadcasting Co. Chicago, Ill. 2,500 watts		W2XAK —Atlantic Broadcasting Corp., New York, N. Y. 50 watts
	W9XAK —Kansas State College, Manhattan, Kans. 125 watts		W10XX —RCA-Victor Co., Portable and Mobile. 50 watts
200-2100 kc. 142.9-150 m. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W9XAO —Western Television Corp. Chicago, Ill. 500 watts. 45 lines	2200-2300 kc. 130.4-1364 m. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W9XAL —First National Television Corp. Kansas City, Mo.	W2XBT —National Broadcasting Co. Portable 750 watts	W8XAN —Sparks-Withington Co., Jackson, Mich. 100 watts
	2750-2850 kc. 105.3-109.1 m. <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Dial:</div> <hr/> W9XG —Purdue University W. Lafayette, Ind. 1500 watts. 60 lines	W1XG —Short Wave & Television Co. Boston, Mass. 200 watts	W8XL —WGAR Broadcasting Co., Cuyahoga Hts., Ohio. 200 watts
W6XAH —Pioneer Mercantile Co. Bakersfield, Cal. 1000 watts. 60 lines			
W9XK —Iowa State University Iowa City, Iowa 100 watts. 60 lines			

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.
 KGPN Davenport, Ia.
 WPDT Fort Wayne, Ind.
 WPDT Kokomo, Ind.
 WPEC Memphis, Tenn.
 KGPi Omaha, Neb.
 WPDP Philadelphia, Pa.
 KGPd San Francisco, Cal.
 KGPm San Jose, Cal.
 KGPW Salt Lake City, U.
 WRDQ Toledo, Ohio
 WPFL Gary, Ind.
 PPFQ Swarthmore, Pa.
 WPFO Knoxville, Tenn.
 WPFR Johnson City, Tenn.

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.
 Asheville, N. C.

2450 kc.-122.4 m.Dial:

WPDK Milwaukee, Wis.
 WPEE New York, N. Y.
 WPEF New York, N. Y.

WPEG New York, N. Y.
 KGPH Oklahoma City, Okla.
 KGPO Tulsa, Okla.
 KGpz Wichita, Kans.
 KGZF Chanute, Kans.
 KGZP Coffeyville, Kans.
 KGQP Honolulu, T. H.

2442 kc.-122.8 m.
 Dial:
 KGpx Denver, Col.
 WPdf Flint, Mich.
 WPEB Grd. Rapids, Mich.
 WMDZ Indianapolis, Ind.
 WPDL Lansing, Mich.
 WPDE Louisville, Ky.
 KGPP Portland, Ore.
 WPDH Richmond, Ind.
 KGZH Klamath Falls, Ore.
 WPFC Muskegon, Mich.
 WPFE Reading, Pa.
 KGZR Salem, Ore.

2430 kc.-123.4 m.Dial:

WPDI Columbus, Ohio
 KGPP Portland, Ore.
 WPDM Dayton, Ohio
 KGZD San Diego, Cal.
 WPFD Highland Park, Ill.
 WPFF Toms River, N. J.
 WPKF Hackensack, N. J.

2422 kc.-123.8 m.Dial:

KSW Berkeley, Cal.
 WMJ Buffalo, N. Y.
 KGPE Kansas City, Mo.

KGPG Vallejo, Cal.
 WPEK New Orleans, La.
 WPDW Washington, D. C.
 WPFG Jacksonville, Fla.

2416 kc.-124.1 m.Dial:

KGPB Minneapolis, Minn.
 WPDS St. Paul, Minn.

2414 kc.-124.2 m.Dial:

WPDY Atlanta, Ga.
 KGPS Bakersfield, Cal.
 WCK Belle Island, Mich.
 WPDX Detroit, Mich.
 WRDR Grosse Pt. Vil. Mich.
 WMO Highland Pk., Mich.
 KGPA Seattle, Wash.
 WPDA Tulare, Cal.
 KGZM El Paso, Tex.
 WPFH Baltimore, Md.
 KGZN Tacoma, Wash.
 WPFI Columbus, Ga.
 WPFM Birmingham, Ala.
 WPFR Clarksburg, W. Va.
 Santa Barbara, Cal.

1712 kc.-175.15 m.Dial:

KGPj Beaumont, Tex.
 WPDB Chicago, Ill.
 WPDC Chicago, Ill.
 WPDD Chicago, Ill.
 WKDU Cincinnati, Ohio

KVP Dallas, Tex.
 KGPI Los Angeles, Cal.
 KGJX Pasadena, Cal.
 WPDU Pittsburgh, Pa.
 KGPC St. Louis, Mo.
 KGZI Wichita Falls, Tex.
 WPFA 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.

1574 kc.-189.5 m.Dial:

WRDS E. Lansing, Mich.
 WMP Fram'gham, Mass.
 WPEW North'pton, Mass.
 KGPY Shreveport, La.
 WPEL W. B'dgew'r, Mass.
 WPEV Portable, Mass.

1534 kc.-196.1 m.Dial:

KGHO Des Moines, Ia.

257 kc.-1123 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	1554 kc.	KSW	Berkeley, Cal.	2422 kc.	WPDZ	Fort Wayne, Ind.	2470 kc.
KCJX	Pasadena, Cal.	1712 kc.	KVP	Dallas, Tex.	1712 kc.	WPEA	Syracuse, N. Y.	2458 kc.
KGOZ	Cedar Rapids, Iowa	2470 kc.	WBA	Harrisburg, Pa.	257 kc.	WPEB	Grand Rapids, Mich.	2442 kc.
KCPA	Seattle, Wash.	2414 kc.	WBR	Butler, Pa.	257 kc.	WPEC	Memphis, Tenn.	2470 kc.
KGPB	Minneapolis, Minn.	2416 kc.	WCK	Belle Island, Mich.	2414 kc.	WPEE	New York, N. Y.	2450 kc.
KGPC	St. Louis, Mo.	1712 kc.	WDX	Wyoming, Pa.	257 kc.	WPEF	New York, N. Y.	2450 kc.
KGPD	San Francisco, Cal.	2470 kc.	WJL	Greensburg, Pa.	257 kc.	WPEG	New York, N. Y.	2450 kc.
KGPE	Kansas City, Mo.	2422 kc.	WKDU	Cincinnati, Ohio	1712 kc.	WPEH	Somerville, Mass.	1712 kc.
KGPG	Vallejo, Cal.	2422 kc.	WMB	W. Reading, Pa.	257 kc.	WPEI	E. Providence, R. I.	1712 kc.
KGPH	Oklahoma City, Okla.	2450 kc.	WMDZ	Indianapolis, Ind.	2442 kc.	WPEK	New Orleans, La.	2422 kc.
KGPI	Omaha, Neb.	2470 kc.	WMJ	Buffalo, N. Y.	2422 kc.	WPEL	W. Bridgewater, Mass.	1574 kc.
KGPj	Beaumont, Tex.	1712 kc.	WMO	Highland Park, Mich.	2414 kc.	WPEP	Arlington, Mass.	1712 kc.
KGPL	Los Angeles, Cal.	1712 kc.	WMP	Framingham, Mass.	1574 kc.	WPET	Lexington, Mass.	1712 kc.
KGPM	San Jose, Cal.	2470 kc.	WPDA	Tulare, Cal.	2414 kc.	WPEV	Portable, Mass.	1574 kc.
KGPN	Davenport, Iowa	2470 kc.	WPDB	Chicago, Ill.	1712 kc.	WPFA	Newton, Mass.	1712 kc.
KGPO	Tulsa, Okla.	2450 kc.	WPDC	Chicago, Ill.	1712 kc.	WPFC	Muskegon, Mich.	2442 kc.
KGPP	Portland, Ore.	2442 kc.	WPDD	Chicago, Ill.	1712 kc.	WPFD	Highland Park, Ill.	2430 kc.
KGPO	Honolulu, T. H.	2450 kc.	WPDE	Louisville, Ky.	2442 kc.	WPFE	Reading, Pa.	2442 kc.
KGPS	Bakersfield, Cal.	2414 kc.	WPDF	Flint, Mich.	2442 kc.	WPFF	Toms River, N. J.	2430 kc.
KGPW	Salt Lake City, Utah	2470 kc.	WPDH	Richmond, Ind.	2442 kc.	WPFG	Jacksonville, Fla.	2442 kc.
KGPX	Denver, Colo.	2442 kc.	WPDI	Columbus, Ohio	2430 kc.	WPFH	Baltimore, Md.	2414 kc.
KGPY	Shreveport, La.	1574 kc.	WPDK	Milwaukee, Wis.	2450 kc.	WPFI	Columbus, Ga.	2414 kc.
KGPZ	Wichita, Kans.	2450 kc.	WPDL	Lansing, Mich.	2442 kc.	WPFJ	Hammond, Ind.	1712 kc.
KGZB	Houston, Tex.	1712 kc.	WPDM	Dayton, Ohio	2430 kc.	WPFK	Hackensack, N. J.	2430 kc.
KGZD	San Diego, Cal.	2430 kc.	WPDN	Auburn, N. Y.	2458 kc.	WPFL	Gary, Ind.	2470 kc.
KCZE	San Antonio, Tex.	2506 kc.	WPDO	Akron, Ohio	2458 kc.	WPFM	Birmingham, Ala.	2414 kc.
KGZF	Chanute, Kans.	2450 kc.	WPDP	Philadelphia, Pa.	2470 kc.	WPFN	Fairhaven, Mass.	1712 kc.
KGZH	Klamath Falls, Ore.	2442 kc.	WPDR	Rochester, N. Y.	2458 kc.	WPFO	Knoxville, Tenn.	2470 kc.
KGZI	Wichita Falls, Tex.	1712 kc.	WPDS	St. Paul, Minn.	2416 kc.	WPFP	Clarksburgh, W. Va.	2414 kc.
KGZL	Shreveport, La.	1712 kc.	WPDT	Kokomo, Ind.	2470 kc.	WPFQ	Swathmore, Pa.	2470 kc.
KGZM	El Paso, Tex.	2414 kc.	WPDU	Pittsburgh, Pa.	1712 kc.	WPFR	Johnson City, Tenn.	2470 kc.
KGZN	Tacoma, Wash.	2414 kc.	WPDV	Charlotte, N. C.	2458 kc.	WRDH	Cleveland, Ohio	2458 kc.
KGZP	Coffeyville, Kans.	2450 kc.	WPDW	Washington, D. C.	2422 kc.	WRDR	Grosse Pt. Village, Mich.	2414 kc.
KGZQ	Waco, Tex.	1712 kc.	WPDX	Detroit, Mich.	2414 kc.	WRDQ	Toledo, Ohio	2470 kc.
KGZR	Salem, Ore.	2442 kc.	WPDY	Atlanta, Ga.	2414 kc.			

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.

Group One

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.
Bakersfield, Calif.	KQK
Bellefonte, Pa.	WNAM
Boise, Idaho	KRA
Brooksville, Pa.	WNAL
Burbank, Calif.	KEU
Cheyenne, Wyo.	KOE
Chicago, Ill.	WUCG
Cleveland, Ohio	WNAK
Dallas, Tex.	KNAT
Des Moines, Iowa	KQM
Elko, Nevada	KKO
Fort Worth, Tex.	KGUC
Fresno, Calif.	KGT
Iowa City, Iowa	KQQ
Kansas City, Mo.	KNAS
Lincoln, Neb.	KRF
Medford, Ore.	KGE
Moline, Ill.	WNAU
Newark, N. J.	WNAO
North Platte, Nebr.	KMR
Oakland, Calif.	KFO
Oklahoma City, Okla.	KNAV
Omaha, Nebr.	KMP
Orlando Twsp., Ill.	WNAT
Pasco, Wash.	KRD
Ponca City, Okla.	KGUZ
Portland, Ore.	KVO
Redding, Calif.	KUT
Rock Springs, Wyo.	KQC
Sacramento, Calif.	KFM
Salt Lake City, Utah	KQD
San Diego, Calif.	KGQZ
Seattle, Wash.	KZJ
Spokane, Wash.	KGTZ
Tulsa, Okla.	KNAU
Wichita, Kans.	KGTE

Group Two

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.	52.88 m.-5680 kc.

60.39 m.-4970 kc. 52.7 m.-5690 kc.
52.45 m.-5720 kc.

Alameda, Calif.	KGSB
Albuquerque, N. M.	KSX
Burbank, Calif.	KSI
Butte, Mont.	KBTY
Camden, N. J.	WAEE
Columbus, Ohio	WHG
Cresson, Pa.	WAEG
Harrisburg, Pa.	WAED
Indianapolis, Ind.	WHM
Kansas City, Mo.	KST
Kingman, Ariz.	KGTL
Las Vegas, Nev.	KGTN
Newark, N. J.	WAEF
Pittsburgh, Pa.	WAEC
Pocatello, Idaho	KGTX
Robertson, Mo.	KGTR
Springfield, Mo.	KGTQ
Tulsa, Okla.	KSY
Wichita, Kans.	KGTD
Winslow, Ariz.	KGTA

Group Three

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.	52.88 m.-5680 kc.
Denver, Colo.	KGSP
Las Vegas, Nev.	KGTJ
Pueblo, Colo.	KGSR
Salt Lake City, Utah	KGTH

Group Four

93.09 m.-3220 kc.	86.52 m.-3470 kc.
92.8 m.-3230 kc.	86.08 m.-3490 kc.
92.52 m.-3240 kc.	61.00 m.-4920 kc.
92.09 m.-3250 kc.	53.55 m.-5600 kc.
87.02 m.-3450 kc.	53.45 m.-5610 kc.
86.77 m.-3460 kc.	53.26 m.-5630 kc.

Abilene, Tex.	KGUL
Beaumont, Tex.	KCTV
Birmingham, Ala.	WSDE
Boston, Mass.	WSDD
Mobile, Ala.	WAEK

Newark, N. J.
Tucson, Ariz.

WSDC
KGUO

Duluth, Minn.
Fargo, N. D.
Madison, Wis.
Milwaukee, Wis.
Pembina, N. D.
St. Paul, Minn.

WSDL
KNWB
WSDR
WAEH
KNWC
KNWA

Group Five

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.

Albany, N. Y.
Atlanta, Ga.
Bera, Ohio
Big Spring, Tex.
Brownsville, Tex.
Burbank, Calif.
Chicago, Ill.
Cincinnati, Ohio
Columbus, Ohio
Dallas, Tex.
Douglas, Ariz.
El Paso, Tex.
Frijoles, Tex.
Indianapolis, Ind.
Indio, Calif.
Jackson, Miss.
Little Rock, Ark.
Louisville, Ky.
Memphis, Tenn.
Nashville, Tenn.
New Orleans, La.
Omaha, Nebr.
Phoenix, Ariz.
Robertson, Mo.
San Antonio, Tex.
Shreveport, La.
Springfield, Ill.
Waco, Tex.

WSDM
WQPD
WSDQ
KGUG
KGUE
KGUR
WSDG
WSDP
KGUF
KGUN
KGUA
KGUM
WSDZ
KGUQ
KSDB
KQUU
WSDF
WSDK
WSDT
WQDQ
KGTS
KGUP
KGUT
KGUD
KGUK
WAEJ
KGUH

Atlantic City, N. J.
Baltimore, Md.
Charleston, S. Car.
Greensboro, N. Car.
Jacksonville, Fla.
Linden, N. J.
McRae, Ga.
Miami, Fla.
Orlando, Fla.
Richmond, Va.
Spartanburg, S. Car.

WEEQ
WEEB
WEEC
WEEG
WEEJ
WEEN
WEEH
WEEM
WEEO
WEER
WEFF

Group Nine

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.
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.
Brownsville, Tex.	KGJW
Miami, Fla.	WKDL
San Juan, P. R.	WMDV

Group Six

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.	

Chicago, Ill.

WSDS

WMDV	San Juan, P. R. (10)
WNAO	Newark, N. J. (1)
WNAK	Cleveland, Ohio (1)
WNAL	Brookville, Pa. (1)
WNAM	Bellefonte, Pa. (1)
WNAT	Orlando, Fla. (1)
WNAU	Moline, Ill. (1)
WQDQ	New Orleans, La. (5)
WQPD	Atlanta, Ga. (5)
WSDC	Newark, N. J. (4)
WSDD	Boston, Mass. (4)
WSDE	Birmingham, Ala. (4)
WSDF	Louisville, Ky. (5)
WSDG	Chicago, Ill. (5)
WSDK	Memphis, Tenn. (5)
WSDL	Duluth, Minn. (6)
WSDM	Albany, N. Y. (5)
WSDO	Buffalo, N. Y. (8)
WSDP	Columbus, Ohio (5)
WSDQ	Berea, Ohio (5)
WSDS	Chicago, Ill. (6)
WSDT	Nashville, Tenn. (5)
WSDZ	Indianapolis, Ind. (5)
WSID	Cincinnati, Ohio (5)
WUCC	Chicago, Ill. (1)

Alphabetically by Call Letters

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

KBTY	Butte, Mont. (2)
KEU	Burbank, Calif. (1)
KFM	Sacramento, Calif. (1)
KFO	Oakland, Calif. (1)
KGE	Medford, Ore. (1)
KGGUC	Ft. Worth, Tex. (1)
KGJW	Brownsville, Tex. (10)
KGQZ	San Diego, Calif.
KGSB	Alameda, Calif. (2)
KGSP	Denver, Colo. (3)
KGSR	Pueblo, Colo. (3)
KGT	Fresno, Calif. (1)
KGTA	Winslow, Ariz. (2)
KGTD	Wichita, Kans. (2)
KGTE	Wichita, Kans. (1)
KGTH	Salt Lake City, U. (3)
KGTJ	Las Vegas, Nev. (3)
KGTL	Kingman, Ariz. (2)
KGTM	Las Vegas, Nev. (2)
KGTT	Springfield, Mo. (2)
KGTR	Robertson, Mo. (2)
KGTS	Omaha, Neb. (5)
KGTV	Beaumont, Tex. (4)
KGTX	Pocatello, Idaho (2)
KGTZ	Spokane, Wash. (1)
KGUA	El Paso, Tex. (5)

KGUB	Houston, Tex. (8)
KGUD	San Antonio, Tex. (5)
KGUE	Brownsville, Tex. (5)
KGUF	Dallas, Tex. (5)
KGUG	Big Spring, Tex. (5)
KGUH	Waco, Tex. (5)
KGUK	Shreveport, La. (5)
KGUL	Abilene, Tex. (4)
KGUM	Frijoles, Tex. (5)
KGUN	Douglas, Ariz. (5)
KGUO	Tucson, Ariz. (4)
KGUP	Phoenix, Ariz. (5)
KGUQ	Indio, Calif. (5)
KGUR	Burbank, Calif. (5)
KGUS	Blythe, Calif. (8)
KGUT	Robertson, Mo. (5)
KGUZ	Pocatello, Okla. (1)
KKO	Elko, Nev. (1)
KMP	Omaha, Neb. (1)
KMR	No. Platte, Nebr. (1)
KNAS	Kansas City, Mo. (1)
KNAT	Dallas, Tex. (1)
KNAU	Tulsa, Okla. (1)
KNAV	Okla. City, Okla. (1)
KNWA	St. Paul, Minn. (6)
KNWB	Fargo, N. D. (6)

KNWC	Pembina, N. D. (6)
KOE	Cheyenne, Wyo. (1)
WAEC	Pittsburgh, Pa. (2)
WAED	Harrisburg, Pa. (2)
WAEE	Camden, N. J. (2)
WAEF	Newark, N. J. (2)
WAEG	Cresson, Pa. (2)
WAEH	Milwaukee, Wis. (6)
WAEI	Detroit, Mich. (7)
WAEJ	Springfield, Ill. (5)
WAEK	Mobile, Ala. (4)
WEEB	Baltimore, Md. (9)
WEEC	Charleston, S. C. (9)
WEEF	Spartanburg, S.C. (9)
WEEG	Greensboro, N.C. (9)
WEEH	McRae, Ga. (9)
WEEJ	Jacksonville, Fla. (9)
WEEM	Miami, Fla. (9)
WEEN	Linden, N. J. (9)
WEEE	Orlando, Fla. (9)
WEEQ	Atlantic City, N. J. (9)
WEER	Richmond, Va. (9)
WHEG	Columbus, Ohio (2)
WHD	Indianapolis, Ind. (2)
WHEM	Orlando, Fla. (9)
WEEQ	Miami, Fla. (10)

AIR LINE DISTANCES OVER

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

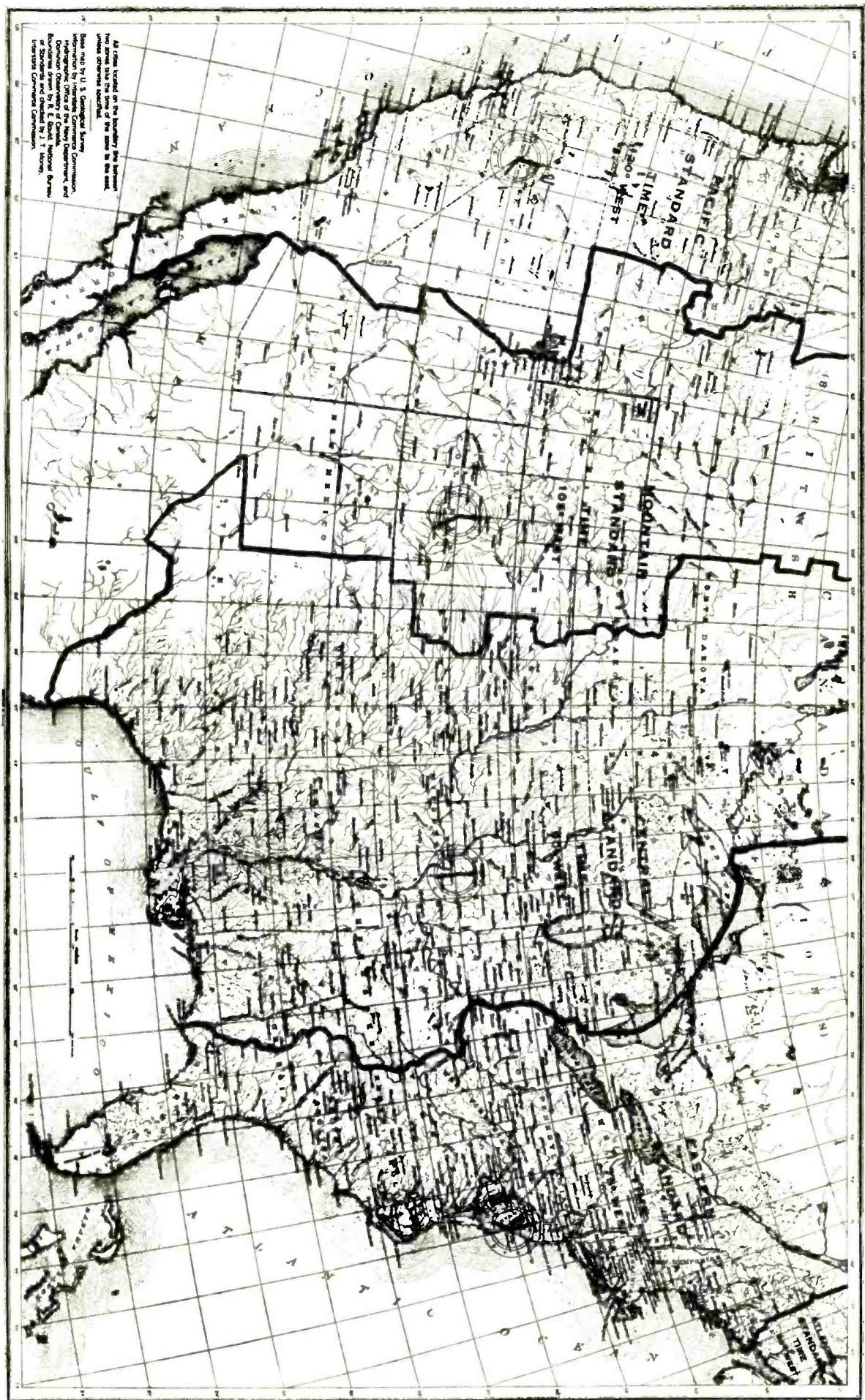
FROM TO		NORTH AMERICA								SOUTH AMERICA		AFRICA	
		Montreal, Que.	New York, N. Y.	Pittsburgh, Pa.	Chicago, Ill.	Winnipeg, Man.	Denver, Colo.	Los Angeles, Cal.	Buenos Aires, Argentina	Rio de Janeiro, Brazil	Cairo, Egypt	Cape Town, U. of S. A.	
Montreal, Que.	.....	314	.....	429	671	1000	1528	2278	2298	5117	5742	5469	7891
New York, N. Y.	.....	.....	313	711	1271	1628	2446	2568	4766	5352	5586	7695	
WORLD		Pittsburgh, Pa.	.....	411	.....	1128	1320	2135	2264	4922	5430	5820	7969
		Chicago, Ill.	.....	.....	670	918	1741	1855	5312	5703	6172	8477	
		DISTANCES		Winnipeg, Man.	Denver, Colo.	.....	800	1486	1402	3937	6328	6094	8984
		Tampico, Mexico		ARE		Los Angeles, Cal.	.....	828	946	5781	5898	6836	9180
		Balboa, Canal Zone		.....		San Francisco, Cal.	.....	.....	345	6250	6133	7578	8922
		1523		.....		.....	.....	.....	6475	6328	7500	10078	
2266	3711	703	.....	Victoria, B. C.	.....	GIVEN		Rio de Janeiro, Brazil	.....	1250	6172	3750	
2148	3398	.....	.....	Saskatoon, Sask.	.....	Buenos Aires, Argentina		Buenos Aires, Argentina	.....	.....	7344	4219	
1953	3203	859	156	.....	.....	Regina, Sask.	.....	ABOVE		Cairo, Egypt	.....	4492	
1914	2539	2187	1445	1563	.....	Ottawa, Ont.	.....	Quebec, Que.	.....	Cape Town, U. of S. A.	.....	.....
2344	2734	2305	1562	1445	430	.....	.....	Moncton, N. B.	.....	.....	Madrid, Spain	.....
2422	2773	2656	1875	1797	586	117	.....	.....	.....	.....	London, England	.....
3711	5117	2695	3477	3516	4766	4922	5312	3703	.....	Honolulu, Hawaii	.....	LINE:	
1992	1094	3750	2969	2969	1914	1953	1953	.....	.....	San Juan, Porto Rico	.....	Portland, Ore.	
2070	3594	273	898	816	810	2422	2734	2539	3672	.....	Spokane, Wash.	.....
1953	3437	352	586	570	715	2109	2422	2852	3398	352	.....	862	.....
1406	2930	820	859	781	1888	1953	2305	3008	3281	664	547	977	188
820	898	1641	1328	1250	1397	1602	1875	3711	3437	1523	1328	922	293
625	1797	1797	1523	1328	2656	1641	1914	3789	2070	1680	1484	1158	456
1094	2383	1523	1094	820	1055	1289	1602	3867	2187	1484	1211	1390	602
1250	2422	1523	1016	664	1094	1094	1484	3906	2227	1328	1094	952	469
1562	2656	1406	781	547	859	1055	1523	3789	2422	1367	1094	988	692
1172	2227	1758	1211	1016	898	1289	1445	4023	2031	1680	1406	1450	755
1094	1992	1914	1406	1211	937	1172	1445	4258	1758	1797	1562	1580	753
1328	2187	1914	1367	1172	664	898	1172	4297	1836	1875	1602	1701	1117
1055	1758	2227	1719	1523	937	1172	1367	4414	1484	2148	1914	1845	1150
1797	2461	2070	1406	1211	156	430	742	4648	1875	2070	1707	1923	1256
1562	2070	2305	1680	1484	469	625	820	4805	1523	2305	2031	2099	1490
1719	2148	2383	1724	1770	386	586	703	4883	1484	2422	2148	1923	1256
1914	2461	2397	1678	1979	301	273	430	5041	1680	2500	2148	2099	1490
Tampico, Mexico		Victoria, B. C.	.....	Regina, Sask.	.....	Quebec, Que.	.....	Montreal, Que.	.....	Portland, Ore.	.....	Gal Lake City, Utah	.....
Balboa, Canal Zone		Saskatoon, Sask.	.....	Ottawa, Ont.	.....	.....	.....	Honolulu, Hawaii	.....	Spokane, Wash.	.....	Oklahoma, Okla.	.....
MEXICO, ETC.		CANADA				UNITED STATES							

THE SURFACE OF THE EARTH

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

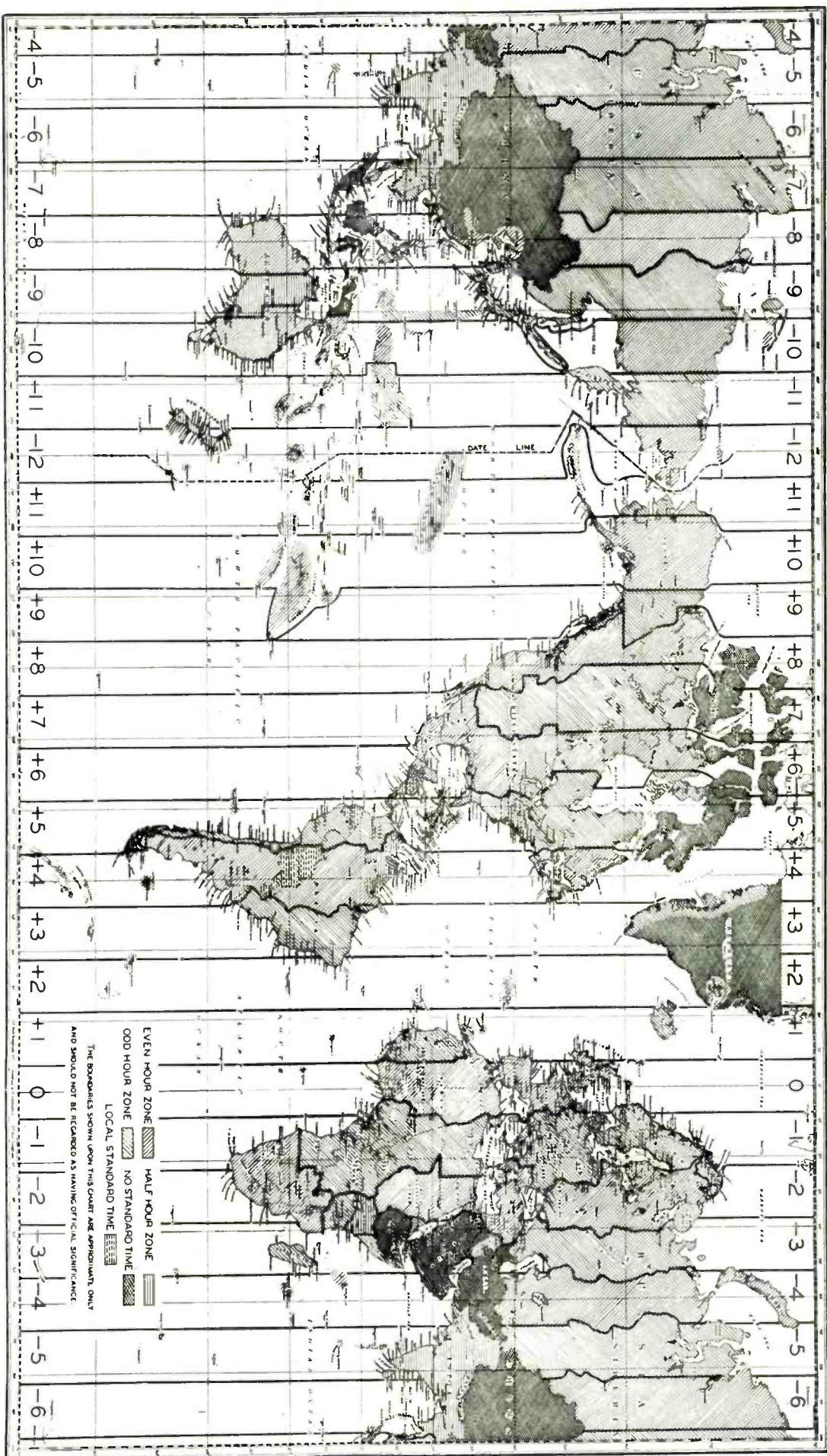
the somewhat cramped scale on the globe.

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.



Since the preparation of this map, the time zones of Mexico have been changed by presidential decree. Effective April 1, 1932, all of Mexico, except the northern territory of Lower California, takes the time of the 90th meridian west, six hours slower than Greenwich; which is the same as our Central Standard. Each zone has time an hour slower than that to the east, an hour faster than that to the west.

STANDARD TIME ZONES OF THE WORLD—OUTLINE CHART OF THE WORLD



This map shows the approximate boundaries of the Time Zones, as used under the International Standard Time Zone System, with the meridian of Greenwich, England, as zero. To convert the local mean time of any place to Greenwich Civil Time (G.C.T. or G.M.T.) subtract (−) or add (+) the number of hours indicated for that zone. To convert Greenwich Time to local time, reverse the operation: adding instead of subtracting, and subtracting instead of adding. Example: Melbourne, Australia, is in the −10 zone. It is 11 p. m. at Melbourne; subtracting 10, we find that it is 1 p. m. at Greenwich. (13:00 G. M. T., which runs from 0 to 24 hours.) Chicago is in the +6 zone. Reversing the sign, and subtracting, we find that 13:00 G. M. T. is 7:00 a. m., standard time, at Chicago; corresponding to 11 p. m. the same day at Melbourne. (Avoid figuring hours directly across the Date Line, in the middle of the Pacific; as you may make an error in the date.)

INTERNATIONAL MORSE CODE

AND

CONVENTIONAL SIGNALS

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
R	S	T	U	V	W	X	Y	Z								
9	;	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(GERMAN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AORA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SPANISH-SCANDINAVIAN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(GERMAN-Spanish)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(FRENCH)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SPANISH)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(GERMAN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(GERMAN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FROM (DE)..... INVITATION TO TRANSMIT (GO AHEAD).....

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 (END OF CORRESPONDENCE).....

NOTE

[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]

ATTENTION CALL TO PRECEDE EVERY TRANSMISSION..... GENERAL INQUIRY CALL.....

PERIOD..... SEMICOLON..... COMMA.....

INTERROGATION..... EXCLAMATION POINT.....

APOSTROPHE.....

HYPHEN.....

BAR INDICATING FRACTION.....

PARENTHESIS.....

INVERTED COMMAS.....

UNDERLINE.....

DOUBLE DASH.....

DISTRESS CALL.....

GENERAL INQUIRY CALL.....

PERIOD..... SEMICOLON.....

COMMA.....

INTERROGATION.....

EXCLAMATION POINT.....

APOSTROPHE.....

HYPHEN.....

BAR INDICATING FRACTION.....

PARENTHESIS.....

INVERTED COMMAS.....

UNDERLINE.....

DOUBLE DASH.....

DISTRESS CALL.....

EVERY TRANSMISSION.....

GENERAL INQUIRY CALL.....

INTERNATIONAL RADIOTELGRAPHIC 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 whom private company (or government administration) or your agent deploys you?.....	The accounts for charges of my station are made up by the private company (or by the government administration of). I am going to	QSQ.....	Must I send each word or group once only?.....	Send one word or group once only.
QRD.....	Where are you going?.....	The nationality of my station is.....	QSR.....	Has the distance call received from been attended to?.....	The distance call received from has been attended to by
QRF.....	What is the nationality of your station?.....	I come from	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.
QRG.....	Where do you come from?.....	Your exact wave length is meters (or kilocycles).	QSV.....	Must I shift to the wave of meters (or kilocycles) for the balance of our communications, and continue after having sent several V's?.....	Send on meters (or on kilocycles), waves of type A1, A2, A3, or B. I am listening.
QRH.....	Will you indicate to me my exact wave length (frequency) in kilocycles?.....	My exact wave length is meters (frequency kilocycles).	QSW.....	Will you send on meters (or on 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.
QBI.....	What is your exact wave length in meters (frequency) in kilocycles?.....	Your tone is bad?.....	QSY.....	Does my wave length (frequency) vary?.....	Are your wave length (frequency) varies.
QRI.....	Is my tone bad?.....	I can not receive you. Your signals are too weak.	QSZ.....	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.
QRIJ.....	Are you receiving me badly? Are my signals good?.....	I receive you well. Your signals are good.	QTA.....	Must I send each word or group twice?.....	Send each word or group twice.
QRL.....	Are you busy?.....	I am busy. Or, I am busy with Please do not interfere.	QTC.....	Must I cancel telegram No. as if it had not been sent?.....	Cancel telegram No. as if it had not been sent.
QRM.....	Am you being interfered with?.....	I am troubled by atmospheric interference.	QTD.....	Is the word count which I am confirming to you accepted?.....	Do not agree with your word count; I shall accept the first letter of each word and the first figure of each number.
QRN.....	Are you disturbed by atmospheric?.....	Increase power.	QTE.....	What is my true bearing? (or) What is my true bearing relative to?.....	I have telegrams for you or for The word count which you confirm to me is accepted.
QRP.....	Must I increase power?.....	Decrease power.	QTF.....	How many telegrams have you to send?.....	Your true bearing is degrees (or) Your true bearing relative to in degrees at (o'clock).
QRR.....	Must I decrease power?.....	Send faster words per minute).	QTD.....	Is the word count which I am confirming to you accepted?.....	The position of your station based on the bearings taken by the radio-compass stations which I control is
QRG.....	Must I send faster?.....	Send more slowly words per minute).	QTE.....	What is the true bearing? (or) What is my true bearing relative to?.....	I control is I can call you for one minute on the wave length of meters (or kilocycles) in order that you may take my radio-compass bearing?
QRT.....	Must I send more slowly?.....	Stop sending.	QTF.....	What is your position in latitude and longitude according to any other indication?.....	My position is degrees latitude longitude (or according to any other indications).
QRU.....	Must I stop sending?.....	I have nothing for you.	QTR.....	What is your speed?.....	My true course is degrees.
QRV.....	Have you anything for me?.....	Send a series of V's.	QTL.....	What is the true bearing of relative to you?.....	My speed is knots, or kilometers per hour.
QRW.....	Must I advise when you are calling him?.....	Please advise that I am calling him.	QTM.....	Send radio signals to enable me to determine my bearing with respect to the radio-beacon.	The true bearing of relative to me is degrees at (o'clock).
QRL.....	Must I wait? When will you call me again?.....	Wait until I am 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 for one minute on the wave length of meters (or kilocycles) in order that you may take my radio-compass bearing.
QRY.....	Which is my turn?.....	Your turn is No. (according to any other indication).	QTP.....	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 my station).
QSZ.....	By whom am I being called?.....	You are being called by	QTR.....	What is the exact time?.....	I can not take the bearing of the dock (or the port).
QSS.....	What is the strength of my signals (1 to 5)?.....	The strength of your signals is (1 to 5).	QTS.....	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.....	Does the strength of my signals vary?.....	Your signals disappear entirely at intervals.	QTU.....	What are the hours during which your station is open?.....	My station is open from to
QSD.....	Do my signals disappear entirely at intervals?.....	Your keying is bad.			
QSE.....	Are my signals distorted?.....	Your signals are modifiable.			
QSF.....	Is my automatic transmission good?.....	Your automatic transmission fades out.			
QSG.....	Must I transmit the telegram by a series of 5, 10 (or according to any other indication)?.....	Transmit the telegram by a series of 5, 10 (or according to any other indication).			
QSL.....	Must I send one telegram at a time, repeating it twice?.....	Transmit one telegram at a time, repeating it twice.			
QSL.....	Must I send the telegrams in alternate order without repetition?.....	Send the telegrams in alternate order without repetition.			
QSN.....	What is the charge to be collected per word for including your internal telephone charge?.....	The charge to be collected per word for is francs, including my internal telephone 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 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).



Coils _____ Tuning } _____ to ____ m.
or
Switch Setting _____ Range } _____ to ____ kc.



Coils _____ Tuning } _____ to ____ m.
or
Switch Setting _____ Range } _____ to ____ kc.

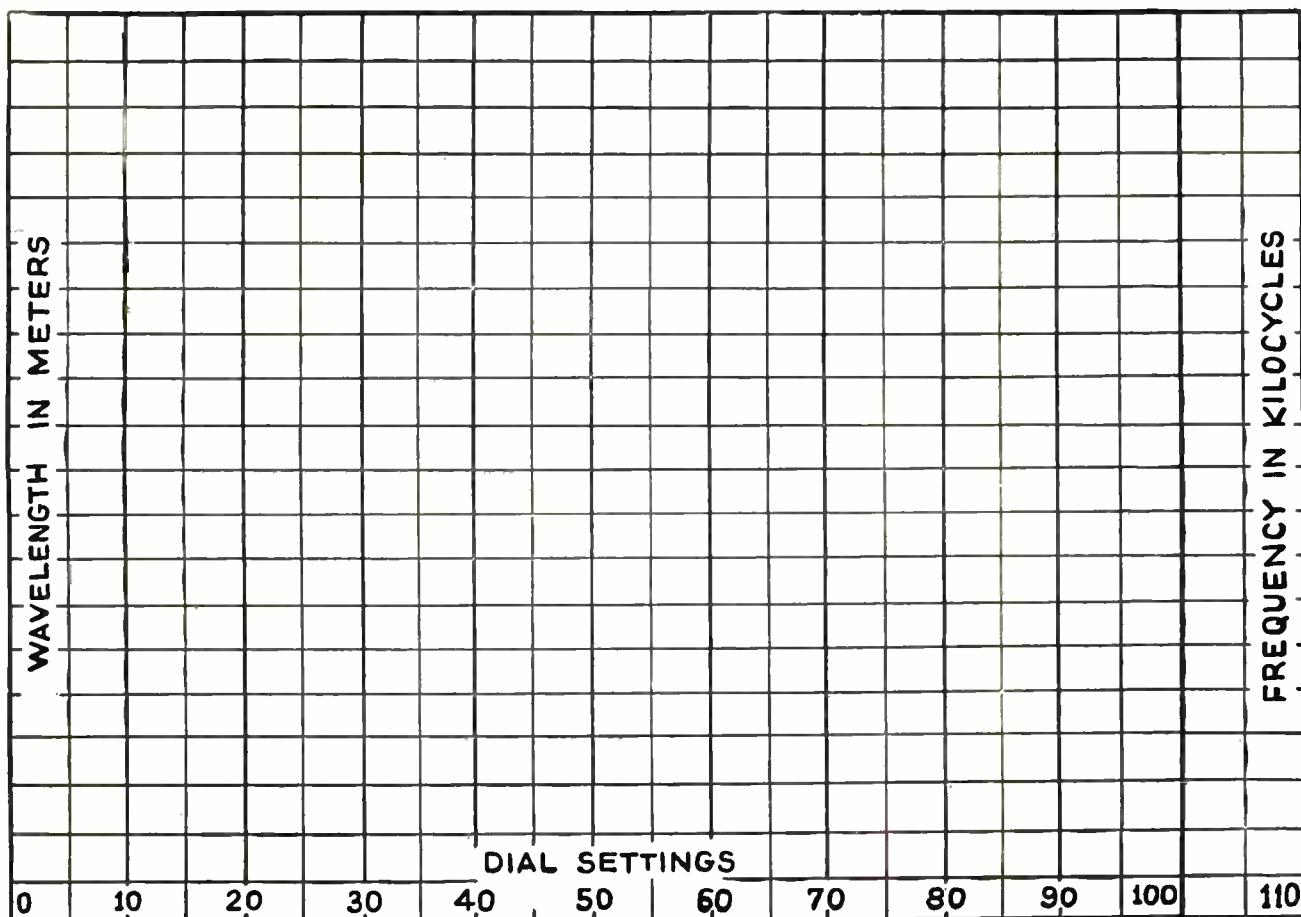
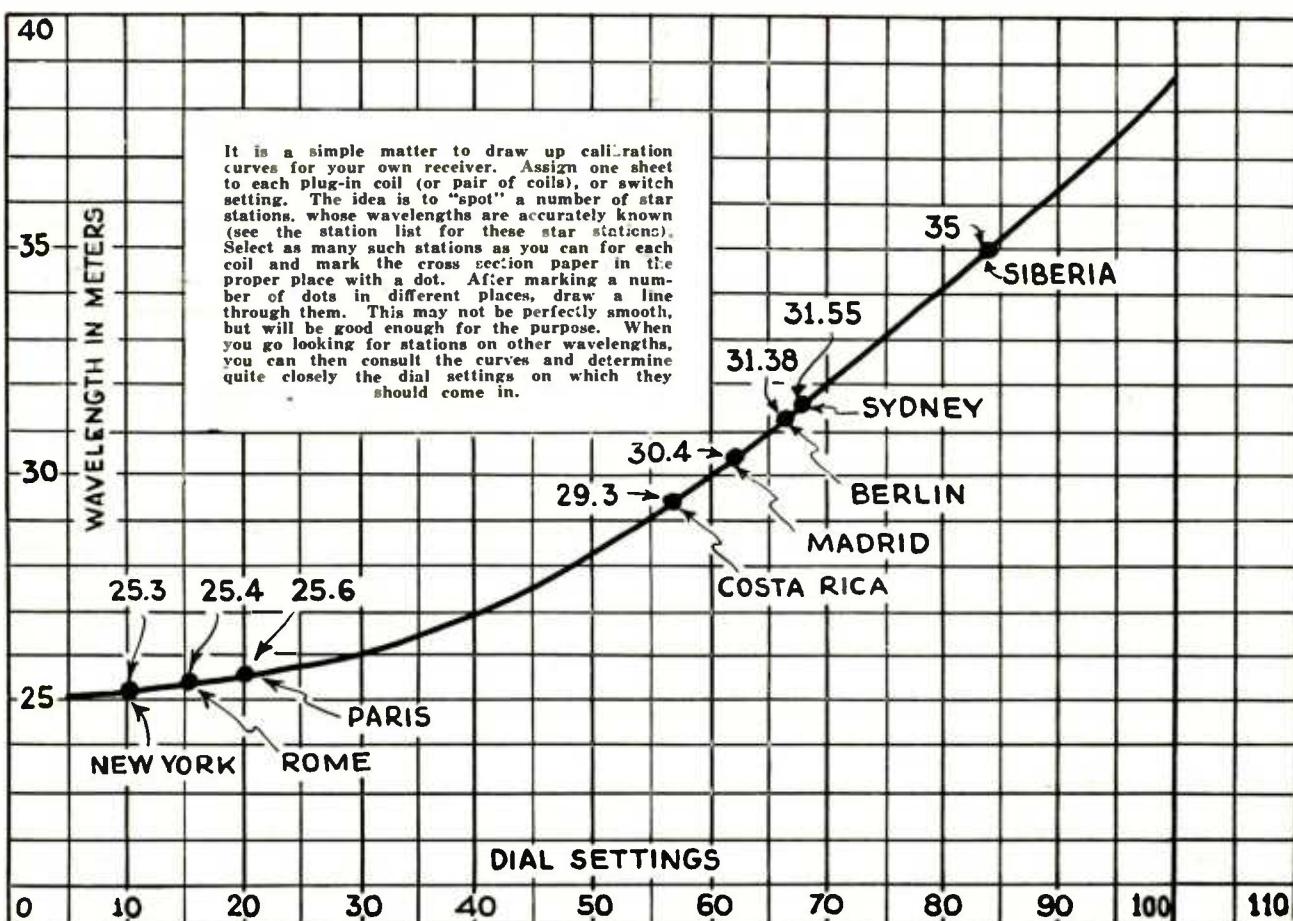


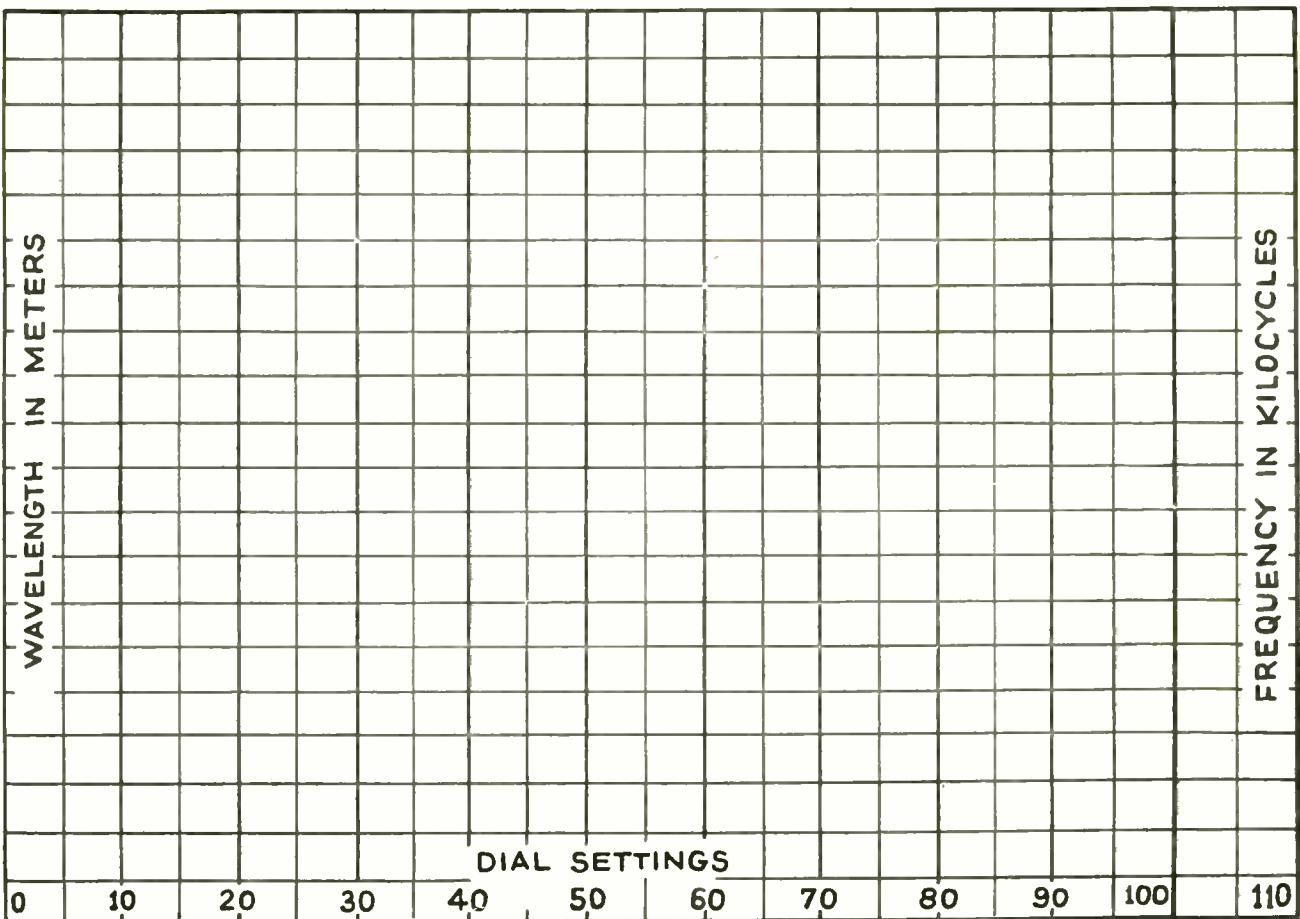
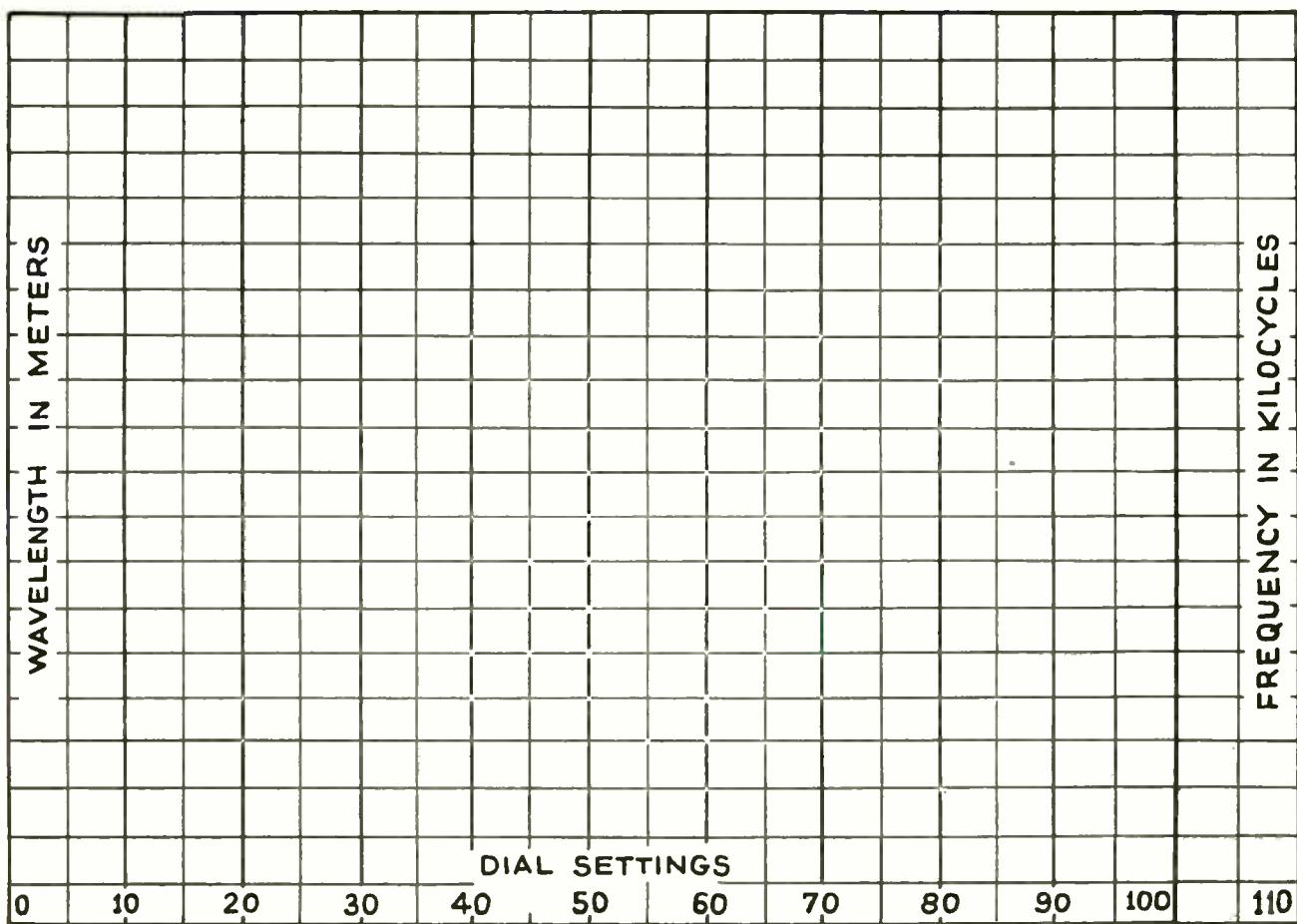
Coils _____ Tuning } _____ to ____ m.
or
Switch Setting _____ Range } _____ or _____ to ____ kc.



Coils _____ Tuning } _____ to ____ m.
or
Switch Setting _____ Range } _____ to ____ kc.

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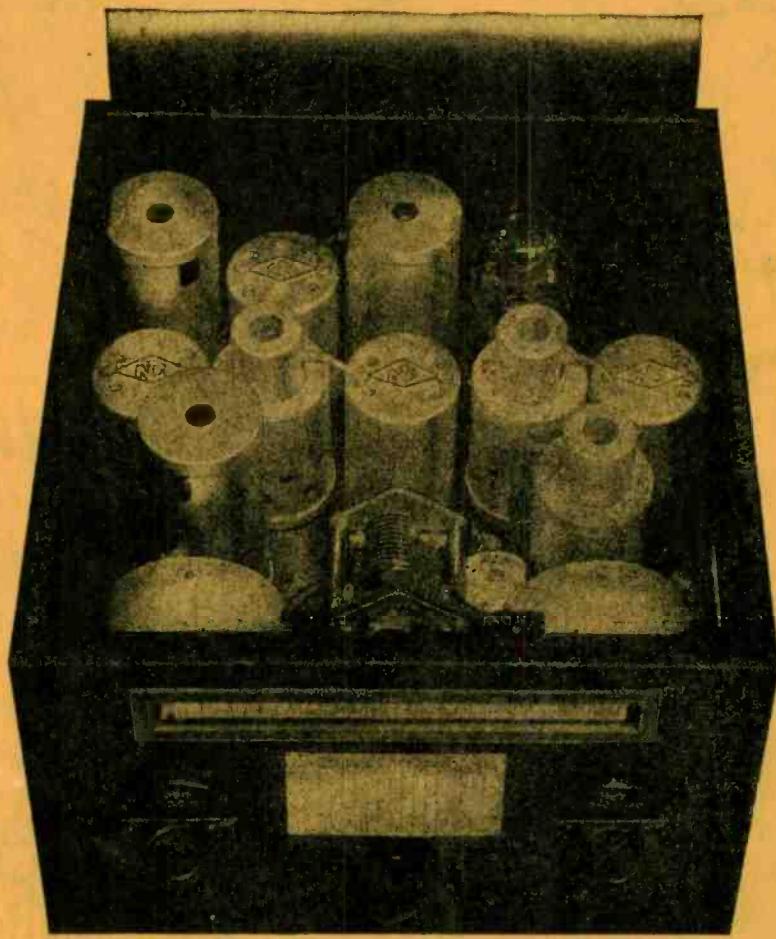
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