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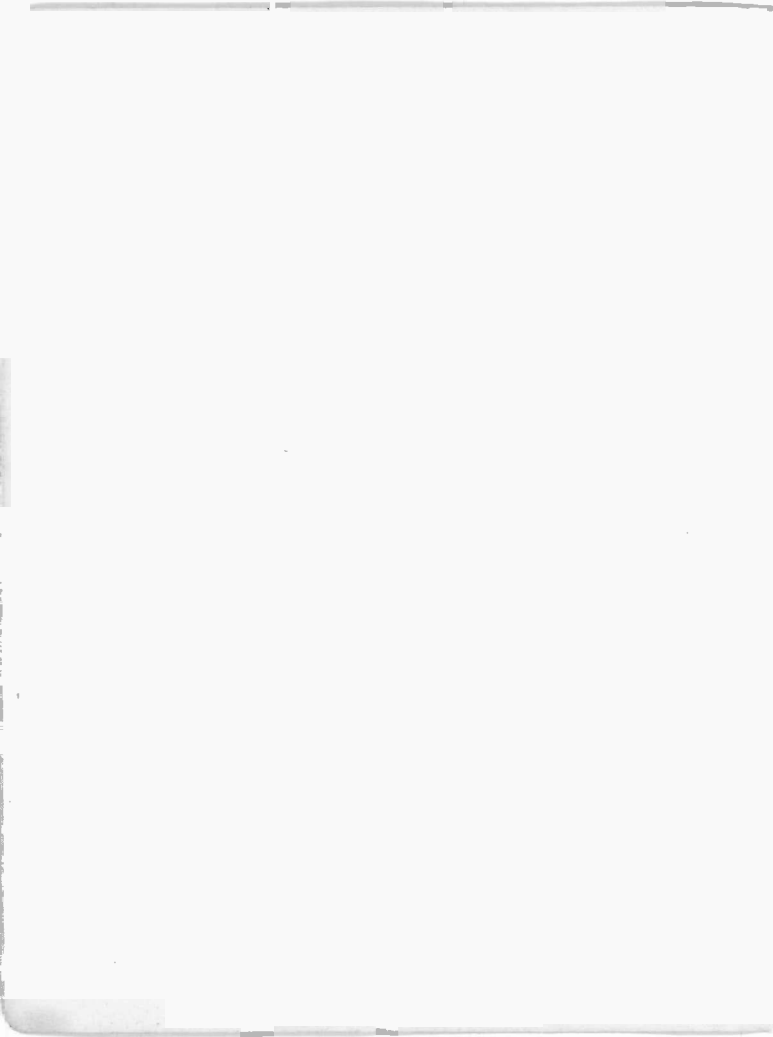
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# GUIDE TO BROADCASTING STATIONS



**Guide to**  
**BROADCASTING**  
**STATIONS**

*Compiled by*

**Wireless World**

*Sixth Edition*



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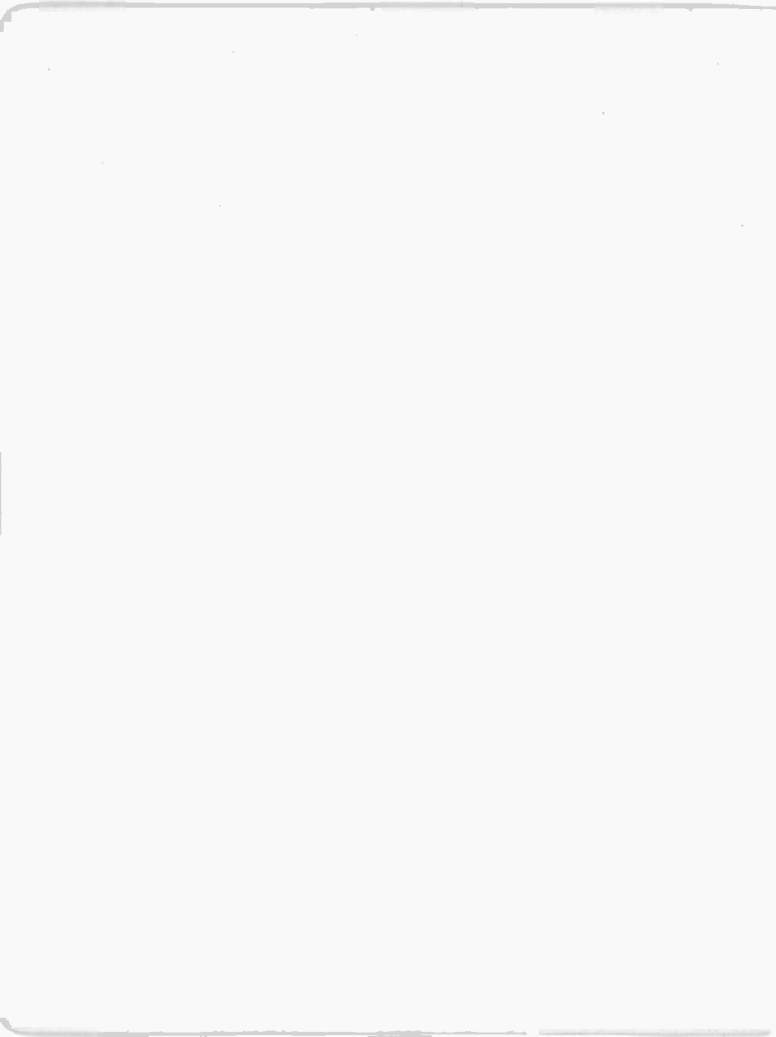
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## Introduction

**T**HE preparation of the sixth edition of this book has provided an opportunity for completely revising the information given. The list of long- and medium-wave stations includes not only the allocations under the Copenhagen Plan, but also details of stations operating on frequencies not allocated to their countries under the Plan; these are given in italics.

Stations marked † were provided for under the Copenhagen Plan, but at the time of going to press they were not using the frequencies allocated. These stations are not, therefore, included in the geographical list. In addition to the 15 channels in the long-wave band (150–285 kc/s) and the 121 in the medium-wave band (525–1,605 kc/s) three intermediate channels (marked X1 to X3) were allocated at Copenhagen.

Frequencies used by stations exclusively during either the day or night are indicated respectively by D or N.

To reduce the length of the medium-wave list the abbreviation "L.P. Stations" has been used where a country is operating [a number of low-power stations—not necessarily synchronized—on the same frequency.

It should be pointed out that we have not included in the long- and medium-wave list stations outside the European Broadcasting Area, which, for the purpose of frequency allocation is bounded on the South by parallel 30°N; on the West by a line extending from the North Pole along meridian 10°W to its intersection with parallel 72°N, thence by great circle arc to the point of intersection of meridian 50°W and parallel 40°N, and thence by a line leading to the point of intersection of meridian 40°W and parallel 30°N; on the East by meridian 40°E. It therefore includes the western part of the U.S.S.R. and the territories bordering on the Mediterranean Sea, but those parts of Arabia and Saudi Arabia which come within this area were excluded from the Copenhagen Plan.

In the case of the short-wave transmitters, the list includes both the frequencies at present employed by stations and those announced

for future use by them although not necessarily employed at the time of preparation of the data. Stations known to have a power of less than one kilowatt have not been included in the short-wave list.

In order to differentiate between stations used for Forces transmissions and those for the civil population in occupied Zones of Europe and the Far East we have indicated the former in the frequency lists by the initials A.F. (American Forces), B.F. (British Forces) and R.F. (Russian Forces).

In conclusion, we would express our indebtedness to the B.B.C. for once again allowing us to check the entries against frequency measurements made at the Tatsfield Receiving Station.

*The Editor,*  
"Wireless World"

*Dorset House,*  
*London, S.E.1*

## Long- and Medium-wave European Stations

Chan- nel	kc/s	Metres	kW	Station and Country	
—	146	2,051	—	Kalundborg	Denmark ✕
1	155	1,935	10	Tromso	Norway
			150	Brasov	Rumania
			100	Moscow, Russia	U.S.S.R.
2	164	1,829	20	Strasbourg I	France C
3	173	1,734	500	Moscow I, Russia	U.S.S.R.
4	182	1,648	100	Reykjavik	Iceland
			—	Moravska-Ostrava	Czechoslovakia ✕
			10	Lulea	Sweden
			120	Ankara	Turkey
5	191	1,571	200	Motala	Sweden
6	200	1,500	400	Droitwich, Worcs.	G. Britain
7	209	1,435	150	Kiev I, Ukraine	U.S.S.R.
8	218	1,376	100	Oslo	Norway
9	227	1,322	200	Warsaw I	Poland
—	233	1,288	150	Luxembourg	Luxembourg
10	236	1,271	100	Leningrad, Russia	U.S.S.R.
—	239	1,255	20	Berlin, U.S.S.R. Zone	Germany ✕
11	245	1,224	60	Kalundborg I	Denmark
12	254	1,181	150	Lahti	Finland
13	263	1,141	70	Berlin, U.S.S.R. Zone	Germany ✕
			150	Moscow II, Russia (D)	U.S.S.R. ✕
14	272	1,103	7	Prague II	Czechoslovakia ✕
15	281	1,067	100	Minsk I, Byelorussia	U.S.S.R.
—	385	779	100	Kharkov II, Ukraine	U.S.S.R.
—	400	750	—	Minsk II, Byelorussia	U.S.S.R.
—	414	725	100	Lutsk, Ukraine	U.S.S.R. ✕
X1	420	714.3	10	Osterund	Sweden
X2	433	693	10	Oulu	Finland
—	518	579.2	1	Joensuu	Finland ✕

Chan.	kc/s	Metres	kW	Station and Country
—	519	578	1	Graz (B.F.), Brit. Zone Austria
X3	520	576.9	0.2	Bayreuth, U.S. Zone Germany
			1	Hamar Norway
1	529	567.1	100	Beromunster Switzerland
2	539	556.5	135	Budapest I Hungary
3	548	547.4	100	Munich II (A.F.), U.S. Zone Germany
			150	Moscow II, Russia (N) U.S.S.R.
			150	Odessa, Ukraine (D) U.S.S.R.
			20	Oukhta, Finno-Karelia U.S.S.R.
4	557	538.6	100	Helsinki Finland
			50	Timisoara Rumania
			15	Monte Ceneri Switzerland
			†	Cairo II Egypt
—	565	531	0.25	Klagenfurt (B.F.), Brit. Zone Austria
5	566	530	15	Vienna, Brit. Zone Austria
			20	Berlin, Brit. Zone Germany
			100	Athlone Ireland
			10	Palermo Italy
—	572	524.4	50	Tel-Aviv Israel
6	575	521.7	100	Stuttgart, U.S. Zone Germany
			20	Potsdam, U.S.S.R. Zone Germany
			100	Riga, Latvia U.S.S.R.
7	584	513.7	35	Vienna I, U.S.S.R. Zone Austria
8	593	505.9	60	Sofia II Bulgaria
			150	Sundsvall Sweden
9	602	498.3	100	Lyons I France
			0.4	Athens Greece
			2	Damascus II Syria
—	606	495	—	Lakatamia (B.F.) Cyprus
10	611	491	1	Berlin (A.F.), U.S. Zone Germany
			0.35	Darmstadt (A.F.), U.S. Zone Germany

Chan.	kc/s	Metres	kW	Station and Country
(10)	(611)	(491)	5	Eidar <i>Iceland</i>
			20	Rabat I <i>French Morocco</i>
			20	Krasnodar, Russia <i>U.S.S.R.</i>
			100	Petrozavodsk, Finno-Karelia <i>U.S.S.R.</i>
11	620	483.9	20	Sarajevo <i>Yugoslavia</i>
			1	Linz (A.F.), U.S. Zone <i>Austria</i>
			20	Brussels I <i>Belgium</i>
			20	Cairo I <i>Egypt</i>
			—	Gorki, Russia <i>U.S.S.R.</i>
12	629	476.9	†	Moalatya <i>Turkey</i>
			6	Dornbirn, Fr. Zone <i>Austria</i>
			6	Innsbruck, Fr. Zone <i>Austria</i>
			100	Vigra <i>Norway</i>
			20	Tunis II <i>Tunisia</i>
—	635	472.4	—	Seville <i>Spain</i>
13	638	470.2	120	Prague I <i>Czechoslovakia</i>
14	647	463.7	150	Crowborough, Sussex <i>G. Britain</i>
			150	Daventry, Worcs. <i>G. Britain</i>
			—	Sync. Network <i>G. Britain</i>
			100	Kharkov, Ukraine <i>U.S.S.R.</i>
			20	Bolzano I <i>Italy</i>
15	656	457.3	100	Florence I <i>Italy</i>
			100	Naples I <i>Italy</i>
			80	Turin I <i>Italy</i>
			20	Venice I <i>Italy</i>
			150	Murmansk, Russia <i>U.S.S.R.</i>
16	665	451.1	10	Bayreuth (A.F.) <i>U.S. Zone</i>
			—	<i>Germany</i>
			12	Lisbon II <i>Portugal</i>
			50	Damascus I <i>Syria</i>
			100	Vilna, Lithuania <i>U.S.S.R.</i>
17	674	445.1	20	Marseilles I <i>France</i>
			24	Paris III <i>France</i>
			10	Bodo <i>Norway</i>
			100	Ouchgorod, Ukraine <i>U.S.S.R.</i>
			100	Rostov-on-Don, Russia <i>U.S.S.R.</i>

Chan.	kc/s	Metres	kW	Station and Country
(17)	(674)	(445.1)	100	Simferopol, Russia (D) U.S.S.R.
—	677	443.1	20	Jerusalem II Jordan
18	683	439.2	40	Hof, U.S. Zone Germany
			15	Madrid Spain
19	692	433.5	150	Belgrade I Yugoslavia
			150	Moorside Edge, Yorks. G. Britain
20	701	427.8	†	Nicosia Cyprus
			25	Banska Bystrica Czechoslovakia
			—	Bratislava II Czechoslovakia
			2	Kosice II Czechoslovakia
			1	Rabat II French Morocco
			—	Aachen, Brit. Zone Germany
			10	Finnmark Norway
			30	Corunna Spain
—	702	427.4	150	Istanbul Turkey
21	710	422.5	100	Limoges I France
			150	Stalino, Ukraine U.S.S.R.
			20	Tartu, Estonia (D) U.S.S.R.
22	719	417.2	15	Graz, Brit. Zone Austria
			15	Klagenfurt, Brit. Zone Austria
			—	11 L.P. Stations, Brit. Zone Germany
			40	Munich, U.S. Zone Germany
			40	Lisbon I Portugal
			0.2	Malmberget Sweden
			2	Aleppo Syria
23	728	412.1	0.35	Nuremburg (A.F.), U.S. Zone Germany
			2	Schwerin, U.S.S.R. Zone Germany
			15	Athens Greece
—	731	410.4	1	Assiut Egypt
			5	Seville Spain
24	737	407	20	Jerusalem Israel
			†	Akureyri Iceland

Chan.	kc/s	Metres	kW	Station and Country	
(24)	(737)	(407)	10	Katovice	Poland
			120	Madrid I	Spain
25	746	402.1	120	Hilversum I	Netherlands
26	755	397.3	15	Vienna, U.S. Zone	Austria
			30	Kuopio	Finland
			0.35	Brunswick, Brit. Zone	Germany
			2.5	Flensburg, Brit. Zone	Germany
			10	Oporto	Portugal
			50	Timisoara	Rumania
—	758	395.8	13	Madrid	Spain
27	764	392.6	100	Sottens	Switzerland
28	773	388.1	1	St. Johann (A.F.), U.S. Zone	Austria
			†	Cairo I	Egypt
			0.4	Kempton, U.S. Zone	Germany
			55	Stockholm	Sweden
			0.1	Chur*	Switzerland
29	782	383.6	70	Berlin, U.S.S.R. Zone	Germany
			100	Kiev II, Ukraine	U.S.S.R.
30	791	379.2	100	Rennes I	France
			50	Salonika	Greece
—	795	377.4	—	Tripoli (B.F.)	Tripolitania
31	800	375	100	Leningrad, Russia	U.S.S.R.
—	802	374.2	9	Barcelona	Spain
32	809	370.8	100	Burghead, Scotland	G. Britain
			5	Redmoss, Scotland	G. Britain
			100	Westerglen, Scotland	G. Britain
			20	Skoplje	Yugoslavia
33	818	366.7	50	Warsaw II	Poland
—	822	364.9	60	Andorra	Andorra
34	827	362.8	100	Sofia I	Bulgaria

\*Although this frequency was not allocated to Switzerland, provision is made in the Copenhagen Plan for low-power transmitters serving certain Swiss valleys to use shared frequencies.

Chan.	kc/s	Metres	kW	Station and Country
(34)	(827)	(362.8)	1.5	Baden-Baden, Fr. Zone Germany
			0.5	Coblenz, Fr. Zone Germany
			18	Freiburg, Fr. Zone Germany
			50	Sigmaringen, Fr. Zone Germany
			1	Trier, Fr. Zone Germany
—	832	359.8	1	Benghazi (B.F.) Libya
35	836	358.9	20	Nancy I France
			7	Beirut Lebanon
36	845	355	100	Rome I Italy
37	854	351.3	0.35	Bremerhaven (A.F.), U.S. Zone Germany
			0.35	Giessen (A.F.), U.S. Zone Germany
			150	Bucharest I Rumania
38	863	347.6	100	Paris I France
—	868	345.6	1	Vienna (B.F.) Brit. Zone Austria
39	872	344	1	Salzburg (A.F.), U.S. Zone Austria
			30	Zaragoza Spain
			2	Trieste Trieste
			150	Moscow III, Russia U.S.S.R.
40	881	340.5	8	Penmon, Wales G. Britain
			100	Washford, Som. G. Britain
			0.25	Wrexham, Wales G. Britain
			20	Titograd Yugoslavia
41	890	337.1	40	Algiers II Algeria
			1	Bad-Mergentheim, U.S. Zone Germany
			20	Bergen I Norway
			20	Kristiansand Norway
			20	Trondheim Norway
			20	Dniepropetrovsk, Ukraine U.S.S.R.
42	899	333.7	50	Milan I Italy
43	908	330.4	140	Brookmans Park, London G. Britain



Chan.	kc/s	Metres	kW	Station and Country
—	910	329.7	2	Dresden, U.S.S.R. Zone Germany
44	917	327.2	5	Fritzlar, U.S. Zone Germany
			10	Madrid Spain
			135	Ljubljana Yugoslavia
45	926	324	20	Brussels II Belgium
46	935	320.9	10	Frankfurt (A.F.), U.S. Zone Germany
			100	Lwow, Ukraine U.S.S.R.
—	936	320.5	5	Tangier Tangier
47	944	317.8	2	Paris IV France
			100	Toulouse I France
			20	Voronezh, Russia U.S.S.R.
48	953	314.8	100	Brno I Czechoslovakia
49	962	311.9	40	Turku Finland
			100	Munich, U.S. Zone Germany
			120	Tunis I Tunisia
50	971	309	50	Hamburg I, Brit. Zone Germany
			50	Langenburg, Brit. Zone Germany
			†	Izmir Turkey
			20	Smolensk, Russia U.S.S.R.
51	980	306.1	50	Algiers I Algeria
			5	Ulm, U.S. Zone Germany
			150	Goteborg Sweden
52	989	303.3	100	Berlin, U.S. Zone Germany
			†	Beirut Lebanon
—	996	301.2	8	Malaga Spain
53	998	300.6	—	3 L.P. Stations (A.F.), U.S. Zone Germany
			100	Kishinev, Moldavia U.S.S.R.
—	1,006	298.2	1	Salonika Greece
54	1,007	297.9	120	Hilversum II Netherlands
			†	Aleppo I Syria
55	1,016	295.3	70	Wolfsheim, Fr. Zone Germany
			0.75	Dresden II, U.S.S.R. Zone Germany
			†	Istanbul Turkey

Chan.	kc/s	Metres	kW	Station and Country
—	1,020	291.5	—	Meiningen, U.S.S.R. Zone Germany
—	1,022	293.5	5	Madrid Spain
56	1,025	292.7	100	Dobl, Brit. Zone Austria
			†	Jerusalem II Israel
57	1,034	290.1	—	3 L.P. Stations (A.F.), U.S. Zone Germany
			5	Genoa II Italy
			10	Milan II Italy
			5	Venice II Italy
			30	Lisbon Portugal
			100	Tallinn, Estonia U.S.S.R.
58	1,043	287.6	70	Leipzig, U.S.S.R. Zone Germany
			2	Salonika II Greece
			20	Rabat French Morocco
59	1,052	285.2	120	Start Point, Devon G. Britain
			†	Tripoli Libya
			5	Bucharest II Rumania
60	1,061	282.8	5	Kalundborg II Denmark
			20	Weimar, U.S.S.R. Zone Germany
			5	Cagliari Italy
			†	Lisbon Portugal
61	1,070	280.4	1	Bordeaux III France
			2	Lille III France
			1	Lyons III France
			1	Marseilles III France
			1.5	Nancy III France
			10	Nantes II France
			10	Paris II France
			20	Krasnodar, Russia U.S.S.R.
—	1,076	278.8	3	San Sebastian Spain
62	1,079	278	50	Breslau Poland
63	1,088	275.7	10	Korca Albania
			150	Droitwich, Worcs. G. Britain
			7.5	Norwich, Norfolk G. Britain
64	1,097	273.5	150	Bratislava I Czechoslovakia

Chan.	kc/s	Metres	kW	Station and Country
65	1,106	271.2	50	Stuttgart (A.F.), U.S. Zone Germany
			100	Moghilev, Byelorussia U.S.S.R.
66	1,115	269.1	20	Bari I Italy
			50	Bologna I Italy
—	1,122	267.4	—	Sync. Network Norway
—	1,123	267.1	1	Alexandria Egypt
67	1,124	266.9	5	Barcelona Spain
			5	Brussels IV Belgium
			5	Varna Bulgaria
			20	Viborg, Finno-Karelia U.S.S.R.
68	1,133	264.8	135	Zagreb I Yugoslavia
69	1,142	262.7	20	Constantine I Algeria
			1	Oran I Algeria
			1	Vienna (A.F.), U.S. Zone Austria
			—	Augsburg, U.S. Zone Germany
			2.5	Bilbao Spain
			0.1	Sool* Switzerland
			10	Trieste Trieste
			20	Kaliningrad, Russia U.S.S.R.
70	1,151	260.6	100	Lisnagarvey, N. Ireland G. Britain
			0.25	Londonderry, N. Ireland G. Britain
			100	Stagshaw, North'd G. Britain
			†	3 Stations Rumania
—	1,153	260.2	—	Alcoy Spain
71	1,160	258.6	20	Strasbourg I France
72	1,169	256.6	—	3 L.P. Stations (A.F.), U.S. Zone Germany
			1	Oporto Portugal
			†	Odessa, Ukraine U.S.S.R.
—	1,174	255.5	9	Corunna Spain
73	1,178	254.7	100	Horby Sweden
—	1,183	253.6	—	Teruel Spain

\*See p. 13.

Chan.	kc/s	Metres	kW	Station and Country	
74	1,187	252.7	135	Budapest II	<i>Hungary</i>
75	1,196	250.8	20	Magdeburg,	<i>U.S.S.R. Zone</i>
			150	Munich III,	<i>U.S. Zone</i>
			†	French Zone	<i>Germany</i>
			†	Kerkyra	<i>Greece</i>
			1	Marrakesh	<i>French Morocco</i>
76	1,205	249	100	Bordeaux I	<i>France</i>
			5	Haifa	<i>Israel</i>
			6	Poznan	<i>Poland</i>
77	1,214	247.1	5	Berlin (B.F.),	<i>Brit. Zone</i>
					<i>Germany</i>
			20	Cologne (B.F.),	<i>Brit. Zone</i>
					<i>Germany</i>
			20	Hanover (B.F.),	<i>Brit. Zone</i>
					<i>Germany</i>
			10	Herford (B.F.),	<i>Brit. Zone</i>
					<i>Germany</i>
			20	Pinneberg (B.F.),	<i>Brit. Zone</i>
					<i>Germany</i>
			60	Brookmans Park,	<i>London</i>
					<i>G. Britain</i>
			20	Burghead,	<i>Scotland</i>
					<i>G. Britain</i>
			10	Lisnagarvey,	<i>N. Ireland</i>
					<i>G. Britain</i>
			0.25	Londonderry,	<i>N. Ireland</i>
					<i>G. Britain</i>
			58	Moorside Edge,	<i>Yorks.</i>
					<i>G. Britain</i>
			2	Newcastle-upon-Tyne,	
				North'd	<i>G. Britain</i>
			0.3	Plymouth,	<i>Devon</i>
					<i>G. Britain</i>
			2	Redmoss,	<i>Scotland</i>
					<i>G. Britain</i>
			2	Redruth,	<i>Cornwall</i>
					<i>G. Britain</i>
			50	Westerglen,	<i>Scotland</i>
					<i>G. Britain</i>
			1	Punta Delgada,	<i>Azores</i>
					<i>Portugal</i>

Chan.	kc/s	Metres	kW	Station and Country	
(77)	(1,214)	(247.1)	20	Kursk, Russia	U.S.S.R.
			100	Simferopol, Russia (N)	U.S.S.R.
78	1,223	245.3	20	Stara Zagora	Bulgaria
			1	Oporto	Portugal
			5	Barcelona	Spain
			100	Falun	Sweden
79	1,232	243.5	100	Kosice I	Czechoslovakia
—	1,238	242	10	Tangier	Tangier
80	1,241	241.7	10	Vaasa	Finland
			1	Annemase	France
			20	Clermont I	France
			20	Dijon I	France
			15	Grenoble I	France
			10	Montpellier I	France
			1	Nice III	France
			20	Pau	France
			1	Poitiers	France
			20	Quimper	France
			150	Odessa, Ukraine (N)	U.S.S.R.
81	1,250	240	5	Salzburg, U.S. Zone	Austria
			†	2 Stations	Egypt
			10	Nyiregyhaza	Hungary
			1	Cork	Ireland
			1	Dublin	Ireland
			0.2	Linares	Spain
—	1,258	238.5	5	Valencia	Spain
82	1,259	238.3	50	Stettin	Poland
—	1,263	237.5	0.2	Oviedo	Spain
83	1,268	236.6	—	2 L.P. Stations (A.F.), U.S. Zone	Germany
			20	Belgrade II	Yugoslavia
84	1,277	234.9	100	Lille I	France
85	1,286	233.3	100	Melnik	Czechoslovakia
			2	Lisbon	Portugal
86	1,295	231.7	150	Ottringham, Yorks.	G. Britain
—	1,300	230.8	0.5	Valladolid	Spain
—	1,302	230.4	0.2	Klagenfurt II, Brit. Zone	Austria

Chan.	kc/s	Metres	kW	Station and Country	
87	1,304	230.1	20	Constantine II	Algeria
			0.2	Oran II	Algeria
			5	Bremen, U.S. Zone	Germany
—	1,312	228.7	1	Gdansk	Poland
			—	Badalona	Spain
88	1,313	228.5	1	Vienna (A.F.), U.S. Zone	
89	1,322	226.9	100	Stavanger	Norway
			2	Leipzig, U.S.S.R. Zone	
			—	Santarem	Germany
—	1,324	226.6	†	Ouchgorod, Ukraine	Portugal
			—	Manresa	U.S.S.R.
90	1,331	225.4	25	Bologna II	Spain
			0.25	Catania II	Italy
			10	Genoa I	Italy
			5	Messina	Italy
			25	Pescara	Italy
			5	Rome II	Italy
			—	Jerusalem III	Israel
91	1,340	223.9	150	Crowborough, Sussex	
—	1,348	222.6	†	Alexandria	G. Britain
			0.4	Magyarovar	Egypt
			1.25	Miskolc	Hungary
			1.25	Pecs	Hungary
			10	Cairo II	Hungary
92	1,349	222.4	20	Limoges II	Egypt
			20	Lyons II	France
			1	Montelimar	France
			10	Nancy II	France
			20	Rennes II	France
			20	Toulouse II	France
			20	Kuldiga, Latvia	France
			20	Madona, Latvia	U.S.S.R.
			20	Madona, Latvia	U.S.S.R.
			93	1,358	220.9
10	Tirana	Portugal			
2	Bremen, U.S. Zone	Albania			
0.2	Kiruna	Germany			
					Sweden

Chan.	kc/s	Metres	kW	Station and Country		
94	1,367	219.5	†	Thorshavn	Faroe Is.	
			5	Wiesbaden (A.F.), U.S. Zone	Germany	
			—	3 L.P. Stations (A.F.), U.S. Zone	Germany	
			5	Catania I	Italy	
			5	Venice III	Italy	
—	1,371	218.8	24	Torun	Poland	
			†	Oporto	Portugal	
95	1,376	218	0.2	Toledo	Spain	
96	1,385	216.6	0.35	Marseilles II	France	
				Garmische (A.F.), U.S. Zone	Germany	
				5	Valencia	Spain
				1	Trieste (B.F.)	Trieste
				150	Kaunas, Lithuania	U.S.S.R.
—	1,389	216	0.15	Galicia	Spain	
—	1,393	215.4	0.25	Fayid (B.F.)	Egypt	
97	1,394	215.2	15	Linz, U.S. Zone	Austria	
			†	Rhodes	Greece	
			—	Sync. Network	Sweden	
98	1,403	213.8	20	Bordeaux II	France	
			20	Louvetot	France	
			10	Montbeliard	France	
			20	Nice II	France	
			2	Nimes	France	
			1	Perpignan	France	
			—	Schleusingen, U.S.S.R. Zone	Germany	
			†	Komotini	Greece	
—	1,408	213.1	20	Baranovichi, Byelorussia	U.S.S.R.	
			20	Tartu, Estonia (N)	U.S.S.R.	
			2	Priscina	Yugoslavia	
			0.8	Dubrovnik	Yugoslavia	
—	1,409	212.9	0.1	Alcira	Spain	
99	1,412	212.5	1.2	Ajdovscina	Yugoslavia	
			20	Banja Luka	Yugoslavia	
			2	Bitolja	Yugoslavia	

Chan.	kc/s	Metres	kW	Station and Country	
(99)	(1,412)	(212.5)	2	Maribor	Yugoslavia
			1.5	Nis	Yugoslavia
			2	Novi Sad	Yugoslavia
—	1,413	212.3	—	Melilla	Spain
—	1,415	212	1	Jaen	Spain
100	1,421	211.1	20	Saarbrucken, Fr. Zone	Germany
			†	Sfax	Tunisia
			†	Chernigov, Ukraine	U.S.S.R.
—	1,422	211	1	Tlemcen	Algeria
—	1,429	209.9	—	Sabadell	Spain
101	1,430	209.8	5	Argyrokastrò	Albania
			30	Copenhagen	Denmark
			†	Madrid II	Spain
—	1,432	209.5	0.2	Reus	Spain
—	1,433	209.3	—	El Ferrol	Spain
—	1,435	209	0.5	Palma de Mallorca	Spain
102	1,439	208.5	100	Frankfurt, U.S. Zone	Germany
			20	Damgarten, U.S.S.R. Zone	Germany
			150	Luxembourg	Luxembourg
—	1,447	207.3	1	Alicante	Spain
			9	Castilla	Spain
103	1,448	207.2	5	Ancona	Italy
			3	Florence II (N)	Italy
			5	Naples II	Italy
			5	San Remo	Italy
			20	Turin II	Italy
			†	Sync. Network	Portugal
			—	Sync. Network	Sweden
104	1,457	205.9	10	Bartley, Hants	G. Britain
			20	Clevedon, Som.	G. Britain
			†	Craiova	Rumania
			0.8	Osijek	Yugoslavia
3 AM 2 105	1,466	204.6	120	Monte Carlo	Monaco
			—	Sync. Network	Norway
—	1,474	203.5	0.2	Cordoba	Spain
106	1,475	203.4	2	Vienna II, U.S.S.R. Zone	Austria



Chan.	kc/s	Metres	kW	Station and Country	
—	1,483	202.3	1	<i>Funchal, Madeira</i>	<i>Portugal</i>
107	1,484*	202.2	5	<i>Hekurudha</i>	<i>Albania</i>
			12	<i>Brno II</i>	<i>Czechoslovakia</i>
			2	<i>Jihlava</i>	<i>Czechoslovakia</i>
			1	<i>Pietarsaari</i>	<i>Finland</i>
			1	<i>Pori</i>	<i>Finland</i>
			1	<i>Tampere</i>	<i>Finland</i>
			0.05	<i>Bescancon</i>	<i>France</i>
			1	<i>Clermont II</i>	<i>France</i>
			0.25	<i>Dijon II</i>	<i>France</i>
			0.05	<i>Grenoble II</i>	<i>France</i>
			1	<i>Limoges III</i>	<i>France</i>
			0.05	<i>Montpellier II</i>	<i>France</i>
			1	<i>Rennes III</i>	<i>France</i>
			0.05	<i>Saint-Brieuc</i>	<i>France</i>
			1	<i>Strasbourg III</i>	<i>France</i>
			2	<i>Herford, Brit. Zone</i>	<i>Germany</i>
			5	<i>Kiel, Brit. Zone</i>	<i>Germany</i>
			2	<i>Regensburg, U.S. Zone</i>	<i>Germany</i>
			2	<i>Wurzburg, U.S. Zone</i>	<i>Germany</i>
			2	<i>Plauen, U.S.S.R. Zone</i>	<i>Germany</i>
			0.25	<i>Volos</i>	<i>Greece</i>
			1	<i>Bari II</i>	<i>Italy</i>
			1	<i>Bolzano II</i>	<i>Italy</i>
			3	<i>Florence II (D)</i>	<i>Italy</i>
			5	<i>La Spezia</i>	<i>Italy</i>
			1	<i>Udine</i>	<i>Italy</i>
			1	<i>Verona</i>	<i>Italy</i>
			—	<i>L.P. Network</i>	<i>Norway</i>
			2	<i>Lodz</i>	<i>Poland</i>
			5	<i>Vatican City</i>	<i>Vatican City</i>
			1.5	<i>Rijeka</i>	<i>Yugoslavia</i>
			0.4	<i>Zajecar</i>	<i>Yugoslavia</i>

\*This international common frequency may also be used by Austria, Belgium, Cyprus, Denmark, Gibraltar, Great Britain, Hungary, Ireland, Malta, Morocco, Portugal, Rumania, San Marino, Spain, Syria, Trieste, Tripoli, Tunisia, U.S.S.R.

Chan.	kc/s	Metres	kW	Station and Country	
—	1,492	201.1	—	6 L.P. Stations	Spain
108	1,493	200.9	20	Lille II	France
—	1,500	200	5	Vinnitza, Ukraine	U.S.S.R.
—	1,500	200	—	Ketlavik (A.F.)	Iceland
—	1,500	200	—	13 L.P. Stations	Spain
109	1,502	199.7	—	3 L.P. Stations (A.F.), U.S. Zone	Germany
—	1,505	199	10	Cracow	Poland
—	1,506	199.2	†	Zaragoza	Spain
—	1,510	198.7	0.2	Leon	Spain
—	1,510	198.7	—	Lerida	Spain
—	1,510	198.7	—	Trieste (A.F.)	Trieste
110	1,511	198.5	10	Brussels III	Belgium
—	1,513	198.3	†	Chania	Greece
—	1,513	198.3	0.2	Segovia	Spain
111	1,520	197.4	5	Ceske-Budejovice	Czechoslovakia
—	1,520	197.4	—	Karlovy-Vary	Czechoslovakia
—	1,520	197.4	20	Ostrava	Czechoslovakia
—	1,520	197.4	15	Plzen	Czechoslovakia
—	1,520	197.4	†	Corunna	Spain
112	1,529	196.2	—	Sync. Network	Sweden
—	1,529	196.2	5	Vatican City	Vatican City
—	1,529	196.2	†	Funchal, Madeira	Portugal
113	1,538	195.1	20	Bad Durrheim, Fr. Zone	Germany
—	1,538	195.1	5	Reutlingen, Fr. Zone	Germany
—	1,538	195.1	†	Sync. Network	Spain
114	1,546	194.1	0.35	Aschaffenburg (A.F.), Zone	U.S.
—	1,546	194.1	—	Sync. Network	Germany
—	1,546	194.1	—	Sync. Network	G. Britain
—	1,546	194.1	†	Vinnitza, Ukraine	U.S.S.R.
115	1,554	193.1	75	Nice I	France
—	1,554	193.1	†	U.S. Zone (A.F.)	Germany
—	1,554	193.1	†	Turi, Estonia	U.S.S.R.
116	1,562	192.1	5	Oporto	Portugal
—	1,562	192.1	—	Sync. Network	Sweden
—	1,562	192.1	†	Sync. Network	Switzerland

Chan.	kc/s	Metres	kW	Station and Country
117	1,570	191.1	100	Berlin, U.S.S.R. Zone
				† Sync. Network
118	1,578	190.1	—	† Sfax II
				Sync. Network
				Fredrikstad
119	1,586	189.1	2	Bonn, Brit. Zone
				20 Hanover, Brit. Zone
				20 Oldenburg-Etzhorn, Brit. Zone
				5 Osnabruck, Brit. Zone
120	1,594‡	188.2	—	† Sync. Network
				Paris
				0.3 Kassel, U.S. Zone
				5 Hoogezand
				5 Hulsbergen
				0.5 Funchal, Madeira
				0.5 Lisbon
0.2 Ljubljana II				
121	1,602	187.3	20	Nuremburg, U.S. Zone
				† Sync. Network
				† Sync. Network

‡This international common frequency may also be used by Andorra, Austria, Belgium, Bulgaria, Cyrenaica, Czechoslovakia, Denmark, Finland, Gt. Britain, Greece, Ireland, Norway, Poland, Spain, Switzerland, Syria, Tangier, Trieste, U.S.S.R.

# Geographical List of Long- and Medium-wave European Stations

	kc/s	(U.S.S.R. Zone)	kc/s
ALBANIA			
X Argyrokaastro	1,430	Vienna	584
Hekurudha	1,484	Vienna	1,475
Korca	1,088	BELGIUM	
Tirana	1,358	Brussels	620
ALGERIA		Brussels	926
Algiers	890	Brussels	1,124
Algiers	980	Brussels	1,511
Constantine	1,142	BULGARIA	
Constantine	1,304	Sofia	593
C. Oran	1,142	Sofia	827
Oran	1,304	Stara Zagora	1,223
Tlemcen	1,422	Varna	1,124
ANDORRA	822	CYPRUS	
AUSTRIA		(Lakatamia )	606
(British Zone)		CZECHOSLOVAKIA	
Dobl	1,025	Banska Bystrica	701
Graz	519	Bratislava	701
Ch Graz	719	Bratislava	1,097
Klagenfurt	565	Brno	953
C. Klagenfurt	719	Brno	1,484
Ch Klagenfurt	1,302	α Ceske-Budejovice	1,520
Vienna	566	Jihlava	1,484
Vienna	868	Karlovy-Vary	1,520
(French Zone)		Kosice	701
Dornbirn	629	Kosice	1,232
Innsbruck	629	Melnik	1,286
(U.S. Zone)		α Moravska-Ostrava	182
Lin	620	Ostrava	1,520
Lin	1,394	α Plzen	1,520
α St. Johann	773	Prague	272
α Salzburg	872	Prague	638
Salzburg	1,250	DENMARK	
Vienna	755	Copenhagen	1,430
Ch Vienna	1,142	Kalundborg	146
X Vienna	1,313	Kalundborg	245
		Kalundborg	1,061

	kc/s		kc/s
<b>EGYPT</b>			
Alexandria	1,122	Marseilles	1,376
Assiut	731	Montbeliard	1,403
Cairo	620	Montelimar	1,349
Cairo	1,348	Montpellier	1,241
Fayid	1,393	Montpellier	1,484
<b>FINLAND</b>		Nancy	836
Helsinki	557	Nancy	1,070
Joensuu	518	Nancy	1,349
Kuopio	755	Nantes	1,070
Lahti	254	Nice	1,241
Oulu	433	Nice	1,403
Pietarsaari	1,484	Nice	1,554
Pori	1,484	Nimes	1,403
Tampere	1,484	Paris	674
Turku	962	Paris	863
Vaasa	1,241	Paris	944
<b>FRANCE</b>		Paris	1,070
Annemase	1,241	Paris	1,594
Bescancon	1,484	Pau	1,241
Bordeaux	1,070	Perpignan	1,403
Bordeaux	1,205	Poitiers	1,241
Bordeaux	1,403	Quimper	1,241
Clermont	1,241	Rennes	791
Clermont	1,484	Rennes	1,349
Dijon	1,241	Rennes	1,484
Dijon	1,484	Saint-Brieuc	1,484
Grenoble	1,241	Strasbourg	164
Grenoble	1,484	Strasbourg	1,160
Lille	1,070	Strasbourg	1,484
Lille	1,277	Toulouse	944
Lille	1,493	Toulouse	1,349
Limoges	710	<b>GERMANY</b>	
Limoges	1,349	(British Zone)	
Limoges	1,484	Aachen	701
Louvetot	1,403	Berlin	566
Lyons	602	Berlin	1,214
Lyons	1,070	Bonn	1,586
Lyons	1,349	Brunswick	755
Marseilles	674	Cologne-Langenburg	1,214
Marseilles	1,070	Flensburg	755

Germany—cont.	kc/s		kc/s
Hamburg	971	Kempton	773
Hanover	1,214	Munich	548
Hanover	1,586	Munich	719
Herford	1,214	Munich	962
Herford	1,484	Munich	1,196
Kiel	1,484	Nuremburg	728
Langenburg	971	Nuremburg	1,602
Oldenburg-Etzhorn	1,586	Regensburg	1,484
Osnabruck	1,586	Stuttgart	575
Pinneberg	1,214	Stuttgart	1,106
11 L.P. Stations (French Zone)	719	Ulm	980
Bad Durrheim	1,538	Wiesbaden	1,367
Baden-Baden	827	Wurzburg	1,484
Coblenz	827	3 L.P. Stations	998
Freiburg	827	3 L.P. Stations	1,034
Reutlingen	1,538	3 L.P. Stations	1,169
Saarbrucken	1,421	2 L.P. Stations	1,268
Sigmaringen	827	3 L.P. Stations	1,367
Trier	827	3 L.P. Stations	1,502
Wolfsheim	1,016	(U.S.S.R. Zone)	
(U.S. Zone)		Berlin	239
Aschaffenburg	1,546	Berlin	263
Augsberg	1,142	Berlin	782
Bad-Mergentheim	890	Berlin	1,570
Bayreuth	520	Damgarten	1,439
Bayreuth	665	Dresden	910
Berlin	611	Dresden	1,016
Berlin	989	Leipzig	1,043
Bremen	1,304	Leipzig	1,322
Bremen	1,358	Magdeburg	1,196
Bremerhaven	854	Meiningen	1,020
Darmstadt	611	Plauen	1,484
Frankfurt	935	Potsdam	575
Frankfurt	1,439	Schleusingen	1,403
Fritzlar	917	Schwerin	728
Garmische	1,385	Weimar	1,061
Giessen	854		
Hof	683	<b>GREAT BRITAIN</b>	
Kassel	1,594	Bartley, Hants	1,457
		Brookmans Park, L'don	908
		Brookmans Park, ,,	1,214

	kc/s		kc/s
<b>G. Britain—cont.</b>			
Burghead, Scotland	809	Budapest	1,187
Burghead, Scotland	1,214	Magyarovar	1,340
Clevedon, Somerset	1,457	Miskolc	1,340
Crowborough, Sussex	647	Nyiregyhaza	1,250
Crowborough, Sussex	1,340	Pecs	1,340
Daventry, Worcs.	647	<b>ICELAND</b>	
Droitwich, Worcs.	200	Eidar	611
Droitwich, Worcs.	1,088	Ketlavik	1,509
Lisnagarvey, N. I.	1,151	Reykjavik	182
Lisnagarvey, N. I.	1,214	<b>IRELAND</b>	
Londonderry, N. I.	1,151	Athlone	566
Londonderry, N. I.	1,214	Cork	1,250
Moorside Edge, Yorks.	692	Dublin	1,250
Moorside Edge, „	1,214	<b>ISRAEL</b>	
Newcastle-upon-Tyne,		Haifa	1,205
North'd	1,214	Jerusalem	737
Norwich, Norfolk	1,088	Jerusalem	1,339
Ottringham, Yorks.	1,295	Tel-Aviv	572
Penmon, Wales	881	<b>ITALY</b>	
Plymouth, Devon	1,214	Ancona	1,448
Redmoss, Scotland	809	Bari	1,115
Redmoss, Scotland	1,214	Bari	1,484
Redruth, Cornwall	1,214	Bologna	1,115
Stagshaw, North'd	1,151	Bologna	1,331
Start Point, Devon	1,052	Bolzano	656
Washford, Somerset	881	Bolzano	1,484
Westerglen, Scotland	809	Cagliari	1,061
Westerglen, Scotland	1,214	Catania	1,331
Wrexham, Wales	881	Catania	1,367
Sync. Network	647	Florence	656
Sync. Network	1,546	Florence (D)	1,484
<b>GREECE</b>		Florence (N)	1,448
Athens	602	Genoa	1,034
Athens	728	Genoa	1,331
Salonika	791	La Spezia	1,484
Salonika	1,006	Messina	1,331
Salonika	1,043	Milan	899
Volos	1,484	Milan	1,034
<b>HUNGARY</b>		Naples	656
Budapest	539	Naples	1,448

<b>Italy—cont.</b>	kc/s			kc/s
Palermo	566		Kristiansand	890
Pescara	1,331		Oslo	218
Rome	845		Stavanger	1,313
Rome	1,331		Tromso	155
San Remo	1,448		Trondheim	890
Turin	656		Vigra	629
Turin	1,448		Sync. Network	1,115
Udine	1,484		Sync. Network	1,466
Venice	656		L.P. Network	1,484
Venice	1,034		<b>POLAND</b>	
Venice	1,367		Breslau	1,079
Verona	1,484		Cracow	1,502
Sync. Network	1,578		Gdansk	1,304
<b>JORDAN</b>			Katovice	737
Jerusalem	677		Lodz	1,484
<b>LEBANON</b>			Poznan	1,205
Beirut	836		Stettin	1,259
<b>LIBYA</b>			Torun	1,367
Benghazi	832		Warsaw	227
<b>LUXEMBOURG</b>			Warsaw	818
Luxembourg	233		<b>PORTUGAL</b>	
Luxembourg	1,439		Faro	1,350
<b>MONACO</b>			Funchal, Madeira	1,483
Monte Carlo	1,466		Funchal, Madeira	1,594
<b>MOROCCO, FRENCH</b>			Lisbon	665
Marrakesh	1,196		Lisbon	719
Rabat	611		Lisbon	1,034
Rabat	701		Lisbon	1,286
Rabat	1,043		Lisbon	1,594
<b>NETHERLANDS</b>			Oporto	755
Hilversum	746		Oporto	1,169
Hilversum	1,007		Oporto	1,223
Hoogezand	1,594		Oporto	1,562
Hulsbergen	1,594		Punta Del., Azores	1,214
<b>NORWAY</b>			Santarem	1,322
Bergen	890		<b>RUMANIA</b>	
Bodo	674		Brasov	155
Finnmark	701		Bucharest	854
Fredrikstad	1,578		Bucharest	1,052
Hamar	520		Timisoara	557



<b>Rumania—cont.</b>	kc/s		kc/s
Timisoara	755	Valladolid	1,300
<b>SPAIN</b>		Zaragoza	872
Alcira	1,409	8 L.P. Stations	1,492
Alcoy	1,153	10 L.P. Stations	1,500
Alicante	1,447	<b>SWEDEN</b>	
Badalona	1,312	Falun	1,223
Barcelona	802	Goteborg	980
Barcelona	1,123	Horby	1,178
Barcelona	1,223	Kiruna	1,358
Bilbao	1,142	Lulea	182
Castilla	1,447	Malmberget	719
Cordoba	1,474	Motala	191
Corunna	701	Ostersund	420
Corunna	1,174	Stockholm	773
El Ferrol	1,433	Sundsvall	593
Galicia	1,389	Sync. Network	1,394
Jaen	1,415	Sync. Network	1,448
Leon	1,507	Sync. Network	1,529
Lerida	1,506	Sync. Network	1,562
Linares	1,250	<b>SWITZERLAND</b>	
Madrid	683	Beromunster	529
Madrid	737	Chur	773
Madrid	758	Monte Ceneri	557
Madrid	917	Sool	1,142
Madrid	1,022	Sottens	764
Malaga	996	<b>SYRIA</b>	
Manresa	1,324	Aleppo	719
Melilla	1,413	Damascus	602
Oviedo	1,263	Damascus	665
Palma de Mallorca	1,435	<b>TANGIER</b>	
Reus	1,432	(Intl. Zone)	
Sabadell	1,429	Tangier	936
San Sebastian	1,076	Tangier	1,238
Segovia	1,513	<b>TRIESTE</b>	
Seville	635	Trieste	872
Seville	731	Trieste	1,142
Teruel	1,183	Trieste	1,385
Toledo	1,371	Trieste	1,510
Valencia	1,258	<b>TRIPOLITANIA</b>	
Valencia	1,385	Tripoli	795

	kc/s		kc/s
<b>TUNISIA</b>			
Tunis	629	Petrozavodsk,	
Tunis	962	Finno-Karelia	611
<b>TURKEY</b>		Riga, Latvia	575
Ankara	182	Rostov-on-Don, Russia	674
Istanbul	702	Simferopol, Russia (D)	674
<b>U.S.S.R.</b>		Simferopol,	
Baranovichi,		Russia (N)	1,214
Byelorussia	1,403	Smolensk, Russia	971
Dnepropetrovsk,		Stalino, Ukraine	710
Ukraine	890	Tallinn, Estonia	1,034
Gorki, Russia	620	Tartu, Estonia (D)	710
Kaliningrad, Russia	1,142	Tartu, Estonia (N)	1,403
Kaunas, Lithuania	1,385	Viborg,	
Kharkov, Ukraine	385	Finno-Karelia	1,124
Kharkov, Ukraine	647	Vilna, Lithuania	665
Kiev, Ukraine	209	Vinnitza, Ukraine	1,493
Kiev, Ukraine	782	Voronezh, Russia	944
Kishinev, Moldavia	998	<b>VATICAN CITY</b>	
Krasnodar, Russia	611	Vatican City	1,484
Kuldiga, Latvia	1,349	Vatican City	1,529
Kursk, Russia	1,214	<b>YUGOSLAVIA</b>	
Leningrad, Russia	236	Ajdovscina	1,412
Leningrad, Russia	800	Banja Luka	1,412
Lutsk, Ukraine	414	Belgrade	683
Lwow, Ukraine	935	Belgrade	1,268
Madona, Latvia	1,349	Bitolja	1,412
Minsk, Byelorussia	281	Dubrovnik	1,408
Minsk, Byelorussia	400	Ljubljana	917
Moghilev,		Ljubljana	1,594
Byelorussia	1,106	Maribor	1,412
Moscow, Russia	155	Nis	1,412
Moscow, Russia	173	Novi Sad	1,412
Moscow, Russia (D)	263	Osijek	1,457
Moscow, Russia (N)	548	Priscina	1,403
Moscow, Russia	872	Rijeka	1,484
Murmansk, Russia	656	Sarajevo	611
Odessa, Ukraine (D)	548	Skoplje	809
Odessa, Ukraine (N)	1,241	Titograd	881
Ouchgorod, Ukraine	674	Zagreb	1,133
Oukhta, Finno-Karelia	548	Zajecar	1,484

# Short-wave Stations of the World

Mc/s	Metres	kW	Call	Station and Country
2.880	104.2	—	GRC	Overseas Service* <i>G. Britain</i>
3.305	90.78	10	VUC2	Calcutta <i>India</i>
3.305	90.78	7.5	—	Valetta (B.F.) <i>Malta</i>
3.320	90.36	10	DZB2	Manila <i>Philippines</i>
3.320	90.36	15	ZEAF	Salisbury <i>S. Rhodesia</i>
3.325	90.23	1	YVQL	El Tigre <i>Venezuela</i>
3.330	90.09	1	YDG	Soerakarta, Java <i>Indonesia</i>
3.341	89.79	1	YVMU	Carora <i>Venezuela</i>
3.350	89.55	—	APL	Lahore <i>Pakistan</i>
3.360	89.28	1.2	ZQI	Kingston <i>Jamaica</i>
3.365	89.15	5	VUD	Delhi <i>India</i>
3.390	88.50	3	YDA	Bandoeng, Java <i>Indonesia</i>
3.395	88.35	1	—	Colombo <i>Ceylon</i>
3.430	87.46	25	LRS3	Buenos Aires <i>Argentina</i>
3.450	86.96	7.5	APK	Karachi <i>Pakistan</i>
3.450	86.96	5	—	Johannesburg <i>S. Africa</i>
3.450	86.96	1	YVQI	Barcelona <i>Venezuela</i>
3.495	85.84	10	VUD2	Delhi <i>India</i>
3.505	85.59	1.75	YVKX	Caracas <i>Venezuela</i>
3.515	85.35	1	YVQG	Barcelona <i>Venezuela</i>
3.528	85.01	7.5	CR7AB	Lourenco Marques <i>Mozambique</i>
3.530	84.99	1	YVKT	Caracas <i>Venezuela</i>
3.550	84.51	1	YVOC	San Cristobal <i>Venezuela</i>
3.590	83.57	1	YVRA	Maturin <i>Venezuela</i>
3.590	83.57	1	YVQA	Cumana <i>Venezuela</i>
3.800	78.95	1	ZEB	Bulawayo <i>S. Rhodesia</i>
3.900	76.92	1	FIQA	Tananarive <i>Madagascar</i>
3.914	76.65	2.5	ZQP	Lusaka <i>N. Rhodesia</i>
3.930	76.34	—	—	Rome <i>Italy</i>
3.930	76.34	20	EQD	Teheran <i>Persia</i>
3.950	75.96	3	DXB2	Mindanao <i>Philippines</i>
3.960	75.75	1	—	Jidda <i>Saudi Arabia</i>

\*British short-wave transmitters are located at Daventry, Northants; Skelton, Cumberland; Woofferton, Shropshire; and Rampisham, Dorset. Frequencies, calls and power (50-100 kW) of all B.B.C. stations, marked with an asterisk (\*) are interchangeable.

Mc/s	Metres	kW	Call	Station and Country	
3.970	<del>75.66</del> 75.56	—	—	Rome	Italy
4.170	71.94	5	TGOA	Guatemala City	Guatemala
4.275	70.18	—	—	Khabarovsk,	Russia
4.560	65.79	—	—	Moscow,	Russia
4.650	64.52	7	HC2AK	Guayaquil	Ecuador
4.777	62.80	2.5	HJGB	Bucaramanga	Colombia
4.780	62.76	10	—	Singapore	Malaya
4.780	62.76	2	EQD	Teheran	Persia
4.785	62.70	5	HJAB	Barranquilla	Colombia
4.790	62.63	6	YVQC	Ciudad Bolivar	Venezuela
4.800	62.50	1	—	Johannesburg	S. Africa
4.802	62.46	2	YVME	Maracaibo	Venezuela
4.806	62.43	5	ZYS8	Manaos	Brazil
4.807	62.41	1	CR5ST	Sao Thome	St. Thomas Is.
4.815	62.31	7.5	CR7BV	Lourenco Marques	Mozambique
4.815	62.31	—	APL	Lahore	Pakistan
4.820	62.24	5	CE482	Antofagasta	Chile
4.820	62.24	1	YVRC	San Fernando	Venezuela
4.825	62.18	1	HJDE	Cali	Colombia
4.825	62.18	10	—	Singapore	Malaya
4.828	62.14	1.3	YVOA	San Cristobal	Venezuela
4.835	62.05	2	HJKE	Bogota	Colombia
4.840	61.98	—	VUB	Bombay	India
4.840	61.98	1	—	Den Pasar, Bali	Indonesia
4.842	61.96	1.5	YVOI	Valera	Venezuela
4.845	61.92	1	CSA93	Ponta Delgada	Azores
4.848	61.90	1	HJGF	Bucaramanga	Colombia
4.854	61.79	1:5	VQ7LO	Nairobi	Kenya
4.856	61.78	1	HJCA	Bogota	Colombia
4.860	61.73	5	VUD3	Delhi	India
4.860	61.73	—	—	Srinagar	India
4.860	61.73	5	JKL	Tokio (A.F.)	Japan
4.865	61.66	2	PRC5	Belem	Brazil
4.865	61.66	1	HJFA	Pereira	Colombia
4.875	61.55	1	HJFH	Armenia	Colombia
4.878	61.50	7.5	YVKF	Caracas	Venezuela
4.879	61.49	2.5	ZQP	Lusaka	N. Rhodesia

Mc/s	Metres	kW	Call	Station and Country	
4.880	61.48	10	VUC2	Calcutta	India
4.885	61.41	5	HJDP	Medellin	Colombia
4.890	61.35	4.7	YVKB	Caracas	Venezuela
4.895	61.29	2.5	PRF6	Manaos	Brazil
4.895	61.29	3	HJCH	Bogota	Colombia
4.895	61.29	5	ZRG	Johannesburg	S. Africa
4.897	61.26	10	VLX4	Perth, W.A.	Australia
4.897	61.26	11	ZOI	Colombo	Ceylon
4.899	61.23	1	YVQF	Ciudad Bolivar	Venezuela
4.901	61.21	1	HJAG	Barranquilla	Colombia
4.910	61.10	5	JKI	Tokio	Japan
4.920	60.98	10	VUM2	Madras	India
4.920	60.98	5	YVKR	Caracas	Venezuela
4.927	60.89	1.3	ZOY	Accra	Gold Coast
4.930	60.85	1	HJAP	Cartagena	Colombia
4.930	60.85	3	YDP	Medan, Sumatra	Indonesia
4.930	60.85	7.5	CR7BU	Lourenco Marques	Mozambique
4.940	60.73	10	VUD	Delhi	India
4.940	60.73	5	JKM	Osaka	Japan
4.945	60.67	3	YDA3	Bandoeng, Java	Indonesia
4.945	60.67	5	—	Johannesburg	S. Africa
4.948	60.64	1	HJCW	Bogota	Colombia
4.950	60.61	1.2	ZQI	Kingston	Jamaica
4.959	60.50	2.5	HJCR	Bogota	Colombia
4.960	60.48	1	—	Riobamba	Ecuador
4.960	60.48	10	VUD2	Delhi	India
4.960	60.48	1	YVQA	Cumana	Venezuela
4.965	60.42	7.5	—	Valetta (B.F.)	Malta
4.970	60.36	1	HJAE	Cartagena	Colombia
4.972	60.33	1	YVLK	Caracas	Venezuela
4.994	60.07	5	YVMO	Barquisimeto	Venezuela
5.000	60.00	50	APK	Karachi	Pakistan
5.010	59.88	3	PJC2	Willemstad	Curacao
5.020	59.76	10	YVKO	Caracas	Venezuela
5.040	59.52	7.5	YVKM	Caracas	Venezuela
5.047	59.44	2.5	YVKD	Caracas	Venezuela
5.060	59.29	7	TFI	Reykjavik	Iceland
5.060	59.29	3	YDJ	Djakakarta, Java	Indonesia

Mc/s	Metres	kW	Call	Station and Country	
5.080	59.06	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.093	58.90	1	CR6RN	Loando	<i>Angola</i>
5.305	56.55	—	RWJ	Alma Ata, Kazakh	<i>U.S.S.R.</i>
5.780	51.90	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.839	51.37	1	CQM4	Bissao	<i>Port. Guinea</i>
5.855	51.24	1	CP15	La Paz	<i>Bolivia</i>
5.871	51.10	1	TIGPH	San Jose	<i>Costa Rica</i>
5.875	51.06	1	HRN	Tegucigalpa	<i>Honduras Rep.</i>
5.883	50.99	5	ZRK	Cape Town	<i>S. Africa</i>
5.895	50.89	50	—	Tel-Aviv	<i>Israel</i>
5.898	50.87	1	CR4AA	Praia	<i>Cape Verde Is.</i>
5.898	50.87	15	OAX4Z	Lima	<i>Peru</i>
5.920	50.68	2	HRA	Tegucigalpa	<i>Honduras Rep.</i>
5.922	50.66	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.940	50.51	—	RV15	Khabarovsk, Russia	<i>U.S.S.R.</i>
5.943	50.48	1	—	Godthaab	<i>Greenland</i>
5.955	50.38	1	OAX4S	Lima	<i>Peru</i>
5.957	50.37	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.969	50.26	25	HVJ5	Vatican City	<i>Vatican City</i>
5.970	50.25	7.5	HI4T	Monsenor Nouel	<i>Dominican Rep.</i>
5.970	50.25	—	—	Achkhabad, Turkmenia	<i>U.S.S.R.</i>
5.970	50.25	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.976	50.21	2	—	Jidda	<i>Saudi Arabia</i>
5.980	50.17	1	ZFY	Georgetown	<i>Brit. Guiana</i>
5.980	50.17	—	—	Rome	<i>Italy</i>
5.980	50.17	1	YSWW	Santa Ana	<i>Salvador</i>
5.980	50.17	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.980	50.17	—	—	Yakutsk, Siberia	<i>U.S.S.R.</i>
5.982	50.15	—	APL2	Lahore	<i>Pakistan</i>
5.986	50.12	5	LRS1	Buenos Aires	<i>Argentina</i>
5.988	50.10	1	HCJB	Quito	<i>Ecuador</i>
5.990	50.08	25	—	Andorra	<i>Andorra</i>
5.995	50.04	5	PRK5	Belo Horizonte	<i>Brazil</i>
5.998	50.02	1	DZH4	Manila	<i>Philippines</i>
* 6.000	50.00	5	HJKD	Bogota	<i>Colombia</i>
* 6.000	50.00	20	TAN	Ankara	<i>Turkey</i>

M/c/s	Metres	kW	Call	Station and Country	
6.000	50.00	—	RNE	Moscow, Russia	U.S.S.R.
6.004	49.97	20	—	Damascus	Syria
6.005	49.96	1	CFCX	Montreal, Quebec	Canada
6.006	49.95	5	COCO	Havana	Cuba
6.006	49.95	2.5	CNR3	Rabat	Fr. Morocco
6.010	49.92	—	GRB	Overseas Service*	G. Britain
6.010	49.92	5	CE601	Antofagasta	Chile
6.010	49.92	30	OLR2A	Podebrady	Czechoslovakia
6.010	49.92	1	CJCX	Sydney, N.S.	Canada
6.010	49.92	10	VUC2	Calcutta	India
6.010	49.92	5	VUD3	Delhi	India
6.010	49.92	60	—	Rome	Italy
6.010	49.92	2.5	XEOI	Mexico City	Mexico
6.010	49.92	1	OAX4Q	Lima	Peru
6.010	49.92	—	—	Moscow, Russia	U.S.S.R.
6.015	49.88	5	PRA8	Recife	Brazil
6.015	49.88	5	JKK	Tokio (A.F.)	Japan
6.015	49.88	7.5	—	Valetta (B.F.)	Malta
6.017	49.86	15	ZEA	Salisbury	S. Rhodesia
6.018	49.85	5	HJCX	Bogota	Colombia
6.018	49.85	—	RV15	Khabarovsk, Russia	U.S.S.R.
6.020	49.83	100	—	Munich, U.S. Zone	Germany
6.020	49.83	50	WRCA4	Bound Brook, N.J.	U.S.A.
6.020	49.83	—	—	Kiev, Ukraine	U.S.S.R.
6.022	49.82	2.5	FZI	Brazzaville	Fr. Eq. Africa
6.025	49.79	1	HROW	Tegucigalpa	Honduras Rep.
6.025	49.79	10	VS2K6	Kuala Lumpur	Malaya
6.025	49.79	5	PGD	Lopik	Netherlands
6.030	49.75	30	OLR2B	Podebrady	Czechoslovakia
6.030	49.75	10	—	Stuttgart, U.S. Zone	Germany
6.030	49.75	1	DZH6	Manila	Philippines
6.030	49.75	—	—	Komsomolsk, Siberia	U.S.S.R.
6.030	49.75	—	—	Moscow, Russia	U.S.S.R.
6.035	49.71	7.5	—	Rangoon	Burma
6.035	49.71	—	GWS	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
6.035	49.71	25	3 AMB	Monte Carlo	Monaco
6.035	49.71	1	CXA30	Montevideo	Uruguay
6.038	49.69	5	COBF	Havana	Cuba
6.040	49.67	1	CE604	Antofagasta	Chile
6.040	49.67	10	BED29	Taipei	Formosa
6.040	49.67	50	—	Tangier	Tangier
6.040	49.67	20	WRUL4	Boston, Mass.	U.S.A.
6.040	49.67	200	WLWO7	Cincinnati, Ohio	U.S.A.
6.040	49.67	50	KCBR2	Delano, Cal.	U.S.A.
6.040	49.67	—	—	Moscow, Russia	U.S.S.R.
6.043	49.63	1	HIIN	Ciudad Trujillo	Dominican Rep.
6.045	49.63	—	—	Moscow, Russia	U.S.S.R.
6.050	49.59	—	GSA	Overseas Service*	G. Britain
6.050	49.59	1.5	EAGAH	Tetuan	Sp. Morocco
6.050	49.59	—	—	Tiflis, Georgia	U.S.S.R.
6.055	49.55	5	PRB9	Sao Paulo	Brazil
*6.055	49.55	2.5	HJEX	Cali	Colombia
6.055	49.55	5	CXA14	Colonia	Uruguay
6.060	49.50	50	CKRZ	Sackville, N.B.	Canada
6.060	49.50	—	GSX	Overseas Service*	G. Britain
6.060	49.50	3	VQ7LO	Nairobi	Kenya
6.060	49.50	1	HORT	Panama City	Panama
6.060	49.50	50	WABC	Brentwood, N.Y.	U.S.A.
6.060	49.50	50	KRCA2	Dixon, Cal.	U.S.A.
6.060	49.50	100	KWID	San Francisco, Cal.	U.S.A.
6.060	49.50	—	—	Moscow, Russia	U.S.S.R.
6.063	49.48	1	HC2FQ	Guayaquil	Ecuador
6.065	49.46	25	LRS1	Buenos Aires	Argentina
6.065	49.46	10	BEF9	Kweiyang	China
6.065	49.46	5	VU7MC	Akashvani	India
6.065	49.46	12	SBO	Motala	Sweden
6.070	49.42	1	CFRX	Toronto, Ont.	Canada
6.070	49.42	—	GRR	Overseas Service*	G. Britain
6.070	49.42	—	—	Khabarovsk, Russia	U.S.S.R.
6.070	49.42	—	—	Petropavlovsk, Russia	U.S.S.R.
6.075	49.38	7.5	—	Colombo	Ceylon
6.075	49.38	—	APL2	Lahore	Pakistan



Mc/s	Metres	kW	Call	Station and Country	
6.075	49.38	50	KGEI	Belmont, Cal.	U.S.A.
6.075	49.38	2.5	CXA3	Montevideo	Uruguay
6.080	49.34	100	—	Munich, U.S. Zone	Germany
6.080	49.34	7.5	ZL7	Wellington	New Zealand
6.080	49.34	75	WLWO1	Cincinnati, Ohio	U.S.A.
6.081	49.34	3	—	Tirana	Albania
6.085	49.30	50	LRV1	Buenos Aires	Argentina
6.085	49.30	60	ZYK2	Recife	Brazil
6.085	49.30	10	VUM2	Madras	India
6.085	49.30	50	IBU4	Milan	Italy
6.089	49.27	100	—	Allouis	France
6.090	49.26	7	—	Tabriz	Persia
6.090	49.26	2	VLI6	Sydney, N.S.W.	Australia
6.090	49.26	7.5	CBFW	Vercheres, Quebec	Canada
6.090	49.26	50	CKOB	Sackville, N.B.	Canada
6.090	49.26	10	—	Hanton	China
6.090	49.26	—	GWM	Overseas Service*	G. Britain
6.090	49.26	5	LXA	Luxembourg	Luxembourg
6.090	49.26	1	OAX4G	Lima	Peru
6.090	49.26	—	—	Moscow, Russia	U.S.S.R.
6.095	49.22	25	ZYB7	Sao Paulo	Brazil
6.095	49.22	30	—	Podebrady	Czechoslovakia
6.100	49.18	1	—	Peking	China
6.100	49.18	1	TGOA	Guatemala City	Guatemala
6.100	49.18	50	WRCA	Bound Brook, N.J.	U.S.A.
6.100	49.18	—	—	Moscow, Russia	U.S.S.R.
6.100	49.18	10	YUA	Belgrade	Yugoslavia
6.104	49.15	1	WLKS	Kure (A.F.)	Japan
6.105	49.14	5	ZYN6	Fortaleza	Brazil
6.107	49.12	2.5	HJFK	Pereira	Colombia
6.110	49.10	5	CP2	La Paz	Bolivia
6.110	49.10	—	GSL	Overseas Service*	G. Britain
6.110	49.10	5	VUD3	Delhi	India
6.110	49.10	5	DZI3	Manila	Philippines
6.110	49.10	1	—	Tangier	Tangier
6.110	49.10	—	—	Moscow, Russia	U.S.S.R.
6.115	49.06	30	OLR2C	Podebrady	Czechoslovakia
6.115	49.06	1	HIIZ	Ciudad Trujillo	Dominican Rep.

Mc/s	Metres	kW	Call	Station and Country
6.115	49.06	5	—	Berlin, U.S.S.R. Zone <i>Germany</i>
6.115	49.06	7.5	—	Warsaw <i>Poland</i>
6.115	49.06	—	—	Komsomolsk, Siberia <i>U.S.S.R.</i>
6.116	49.05	12	—	Saigon <i>Fr. Indo-China</i>
6.120	49.02	1	LRX1	Buenos Aires <i>Argentina</i>
6.120	49.02	1	CP15	La Paz <i>Bolivia</i>
6.120	49.02	7.5	—	Limassol <i>Cyprus</i>
6.120	49.02	10	OIX1	Helsinki <i>Finland</i>
6.120	49.02	7.5	—	Manila <i>Philippines</i>
6.120	49.02	50	WABC	Brentwood, N.Y. <i>U.S.A.</i>
6.120	49.02	50	KCBR2	Delano, Cal. <i>U.S.A.</i>
6.120	49.02	50	WABC5	Wayne, N.J. <i>U.S.A.</i>
6.120	49.02	50	WABC6	Wayne, N.J. <i>U.S.A.</i>
6.123	49.00	1	HRQ	San Pedro <i>Honduras Rep.</i>
6.125	48.98	—	GWA	Overseas Service* <i>G. Britain</i>
6.127	48.96	10	LKJ2	Tromso <i>Norway</i>
6.130	48.94	1	CHNX	Halifax, N.S. <i>Canada</i>
6.130	48.94	1	COCD	Havana <i>Cuba</i>
6.130	48.94	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.130	48.94	10	CXA4	Montevideo <i>Uruguay</i>
6.135	48.90	7.5	—	Limassol <i>Cyprus</i>
6.135	48.90	10	—	Singapore <i>Malaya</i>
6.135	48.90	7.5	CR7AA	Lourenco Marques <i>Mozambique</i>
6.135	48.90	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.140	48.86	50	OTC	Leopoldville <i>Belg. Congo</i>
6.140	48.86	100	—	Munich, U.S. Zone <i>Germany</i>
6.140	48.86	7.5	—	Valetta (B.F.) <i>Malta</i>
6.140	48.86	50	WBOS	Boston, Mass. <i>U.S.A.</i>
6.140	48.86	10	—	Belgrade <i>Yugoslavia</i>
6.145	48.82	10	LRR	Rosario <i>Argentina</i>
6.145	48.82	5	HJDE	Medellin <i>Colombia</i>
6.145	48.82	100	—	Allouis <i>France</i>
6.145	48.82	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.147	48.79	50	PRL9	Rio de Janeiro <i>Brazil</i>
6.150	48.78	2	VLR6	Lyndhurst, Vic. <i>Australia</i>

Mc/s	Metres	kW	Call	Station and Country	
6.150	48.78	2	CKRO	Winnipeg, Manitoba	Canada
6.150	48.78	5	CE615	Valparaiso	Chile
6.150	48.78	2	TIRH	San Jose	Costa Rica
6.150	48.78	—	GRW	Overseas Service*	G. Britain
6.150	48.78	10	VUB2	Bombay	India
6.150	48.78	—	—	Moscow, Russia	U.S.S.R.
6.150	48.78	4	YVMK	Maracaibo	Venezuela
6.152	48.76	5	CE615	Santiago	Chile
6.154	48.75	35	BEF6	Chungking	China
6.154	48.75	10	CSB52	Lisbon	Portugal
6.155	48.74	1	XEEP	Mexico City	Mexico
6.155	48.74	2	EQB	Teheran	Persia
6.155	48.74	1	YSPB	San Salvador	Salvador
6.155	48.74	5	CXA13	Montevideo	Uruguay
6.160	48.70	50	CHAC	Sackville, N.B.	Canada
6.160	48.70	5	HJKJ	Bogota	Colombia
6.160	48.70	100	KRHO	Honolulu	Hawaii
6.160	48.70	—	—	Moscow, Russia	U.S.S.R.
6.161	48.69	100	—	Munich, U.S. Zone	Germany
6.161	48.69	10	CXA13	Montevideo	Uruguay
6.165	48.66	2	TILS	San Pedro	Costa Rica
6.165	48.66	12	—	Saigon	Fr. Indo-China
6.165	48.66	—	GWK	Overseas Service*	G. Britain
6.165	48.66	1	4VCM	Port au Prince	Haiti
6.165	48.66	1.5	—	Fort de France	Martinique
6.165	48.66	100	HER3	Schwarzenburg	Switzerland
6.167	48.64	1	DUH2	Manila	Philippines
6.170	48.62	7.5	—	Limassol	Cyprus
6.170	48.62	30	OLR2D	Podebrady	Czechoslovakia
6.170	48.62	100	—	Munich, U.S. Zone	Germany
6.170	48.62	1	FIQA	Tananarive	Madagascar
6.170	48.62	1	YSHQ	San Miguel	Salvador
6.170	48.62	50	WABC	Brentwood, N.Y.	U.S.A.
6.170	48.62	50	WABC5	Wayne, N.J.	U.S.A.
6.170	48.62	2	YVKO	Caracas	Venezuela
6.174	48.59	1	CXA21	Montevideo	Uruguay

Mc/s	Metres	kW	Call	Station and Country	
6.175	48.58	7.5	—	Athens	Greece
6.175	48.58	7.5	—	Singapore	Malaya
6.180	48.54	10	LRM	Mendoza	Argentina
6.180	48.54	—	GRO	Overseas Service*	G. Britain
6.180	48.54	—	—	Achkhabad, Turkmenia	U.S.S.R.
6.185	48.50	8	LLI	Fredrikstad	Norway
6.185	48.50	50	KRCA1	Dixon, Cal.	U.S.A.
6.185	48.50	—	—	Moscow, Russia	U.S.S.R.
6.190	48.47	1	—	Frankfurt, U.S. Zone	Germany
6.190	48.47	10	—	Kassel, U.S. Zone	Germany
6.190	48.47	100	VUD7	Delhi	India
6.190	48.47	1.5	—	Athlone	Ireland
6.190	48.47	50	KGEI	Belmont, Cal.	U.S.A.
6.190	48.47	50	WRCA3	Bound Brook, N.J.	U.S.A.
6.190	48.47	100	WGEO	Schenectady, N.Y.	U.S.A.
6.190	48.47	25	HVJ	Vatican City	Vatican City
6.195	48.43	—	GRN	Overseas Service*	G. Britain
6.195	48.43	1	HNU	Baghdad	Iraq
6.195	48.43	5	LLJ	Oslo	Norway
6.195	48.43	—	—	Moscow, Russia	U.S.S.R.
6.200	48.39	100	—	Allouis	France
6.200	48.39	1	YVQF	Bolivar	Venezuela
6.203	48.37	10	HJCT	Bogota	Colombia
6.210	48.31	5	—	Bucharest	Rumania
6.210	48.31	—	—	Moscow, Russia	U.S.S.R.
6.214	48.27	1	TGJA	Guatemala City	Guatemala
6.220	48.23	5	CE622	Santiago	Chile
6.220	48.23	7.5	—	Warsaw	Poland
6.220	48.23	—	—	Alma Ata, Kazakh	U.S.S.R.
6.225	48.19	6	HJFB	Manizales	Colombia
6.240	48.08	—	—	Rome	Italy
6.240	48.08	1	HS8PD	Bangkok	Siam
6.247	48.01	100	—	Budapest	Hungary
6.250	48.00	5	CE625	Santiago	Chile
6.260	47.92	—	—	Rome	Italy
6.265	47.89	1	YSUA	San Salvador	Salvador
6.275	47.81	2.5	ZPA1	Ascuncion	Paraguay

Mc/s	Metres	kW	Call	Station and Country	
6.275	47.81	1.	YSR	San Salvador	Salvador
6.290	47.68	—	—	Rome	Italy
6.295	47.66	3	OTM1	Leopoldville	Belg. Congo
6.300	47.62	1	YSCP	San Salvador	Salvador
6.305	47.58	1	OAX4H	Lima	Peru
6.315	47.51	1	OAX4L	Lima	Peru
6.317	47.49	1	COCW	Havana	Cuba
6.320	47.47	1	—	Baden Baden, Fr. Zone	Germany
6.332	47.38	1	TGTA	Guatemala City	Guatemala
6.338	47.34	1	OAX6E	Arequipa	Peru
6.345	47.28	25	HEI2	Schwarzenburg	Switzerland
6.350	47.24	1	HRP1	San Pedro	Honduras Rep.
6.360	47.17	10	CSA21	Lisbon	Portugal
6.400	46.88	1	TGQA	Quezaltenango	Guatemala
6.440	46.57	1	TGWB	Guatemala City	Guatemala
6.450	46.48	1	COHI	Havana	Cuba
6.620	45.32	1	TG2	Guatemala City	Guatemala
6.645	45.20	1	BEL7	Hankow	China
6.675	44.94	25	HBQ	Geneva	Switzerland
6.677	44.93	1	—	Godthaab	Greenland
6.700	44.78	1	TIEP	San Jose	Costa Rica
6.700	44.78	—	—	Moscow, Russia	U.S.S.R.
6.760	44.38	1	ZNR	Aden	Arabia
6.760	44.38	1	YNVP	Managua	Nicaragua
6.790	44.18	7.5	<b>Z MJ6</b>	Limassol	Cyprus
6.825	43.96	—	—	Tashkent, Uzbek	U.S.S.R.
6.830	43.92	2.5	—	Tel Aviv	Israel
6.870	43.67	1	HC4EB	Manta	Ecuador
7.000	42.86	100	WGEO	Schenectady, N.Y.	U.S.A.
7.002	42.86	1.5	FZI	Brazzaville	Fr. Eq. Africa
7.006	42.83	1	FET1	Valladolid	Spain
7.015	42.78	1	CSA91	Ponta Delgada	Azores
7.020	42.74	2	EAJ9	Malaga	Spain
7.035	42.64	3	EAJ3	Valencia	Spain
7.037	42.63	—	—	Moscow, Russia	U.S.S.R.
7.062	42.49	1	—	Baghdad	Iraq
7.065	42.46	10	—	Jerusalem	Jordan
7.075	42.40	—	GRS	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
7.092	42.30	1	YI5KG	Baghdad	<i>Iraq</i>
7.095	42.29	7.5	APD	Dacca	<i>Pakistan</i>
7.098	42.26	1	—	Harbin	<i>China</i>
7.098	42.26	3	YDJ2	Djokjakarta, Java	<i>Indonesia</i>
7.100	42.25	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.110	42.19	—	—	Rome	<i>Italy</i>
7.120	42.13	—	GRM	Overseas Service*	<i>G. Britain</i>
7.120	42.13	10	—	Delhi	<i>India</i>
7.125	42.11	1	VQ6MI	Hargeisa	<i>Brit. Somaliland</i>
7.126	42.10	1	EA9AA	Tangier	<i>Tangier</i>
7.135	42.05	10	BED7	Taipei	<i>Formosa</i>
7.135	42.05	—	<b>MCM</b>	Overseas Service*	<i>G. Britain</i>
7.138	42.03	25	HVJ	Vatican City	<i>Vatican City</i>
7.140	42.02	7.5	APD1	Dacca	<i>Pakistan</i>
7.145	41.99	20	—	Damascus	<i>Syria</i>
7.150	41.96	100	—	Berlin, U.S.S.R. Zone	<i>Germany</i>
7.150	41.96	—	GRT	Overseas Service*	<i>G. Britain</i>
7.150	41.96	—	—	Erivan, Armenia	<i>U.S.S.R.</i>
7.152	41.95	1	CR6RD	Nova Lisboa	<i>Angola</i>
7.155	41.93	—	—	Delhi	<i>India</i>
7.165	41.87	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.175	41.82	1	CR6AA	Lobito	<i>Angola</i>
7.180	41.78	1	EDV10	Madrid	<i>Spain</i>
7.180	41.78	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.185	41.76	—	GRK	Overseas Service*	<i>G. Britain</i>
7.200	41.67	—	GWZ	Overseas Service*	<i>G. Britain</i>
7.200	41.67	10	—	Singapore	<i>Malaya</i>
7.200	41.67	50	—	Tangier	<i>Tangier</i>
7.200	41.67	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.200	41.67	—	—	Stalinabad, Tadzhik	<i>U.S.S.R.</i>
7.205	41.63	7.5	—	Warsaw	<i>Poland</i>
7.210	41.61	—	GWL	Overseas Service*	<i>G. Britain</i>
7.210	41.61	10	VUC2	Calcutta	<i>India</i>
7.210	41.61	8	LLS	Tromso	<i>Norway</i>
7.210	41.61	25	HEI3	Schwarzenburg	<i>Switzerland</i>
7.210	41.61	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.214	41.58	50	—	Rabat	<i>Fr. Morocco</i>

Mc/s	Metres	kW	Call	Station and Country	
7.214	41.58	50	—	Tangier	<i>Tangier</i>
7.215	41.58	10	VLQ7	Brisbane, Qld.	<i>Australia</i>
7.215	41.58	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.220	41.55	7.5	—	Valetta (B.F.)	<i>Malta</i>
7.222	41.54	100	—	Budapest	<i>Hungary</i>
7.225	41.52	20	VUD10	Delhi	<i>India</i>
7.225	41.52	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.229	41.50	1	—	Johannesburg	<i>S. Africa</i>
7.230	41.49	--	GSW	Overseas Service*	<i>G. Britain</i>
7.230	41.49	100	KWID	San Francisco, Cal.	<i>U.S.A.</i>
7.235	41.46	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.240	41.44	10	VLQ7	Brisbane, Qld.	<i>Australia</i>
7.240	41.44	50	VLC7	Shepparton, Vic.	<i>Australia</i>
7.240	41.44	100	—	Realtort	<i>France</i>
7.240	41.44	100	—	Munich, U.S. Zone	<i>Germany</i>
7.240	41.44	10	VUB2	Bombay	<i>India</i>
7.240	41.44	7.5	VUD8	Delhi	<i>India</i>
7.240	41.44	5	LLR	Oslo	<i>Norway</i>
7.240	41.44	20	TAM	Ankara	<i>Turkey</i>
7.245	41.41	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.250	41.38	3	PJC1	Willemstad	<i>Curacao</i>
7.250	41.38	100	—	Munich, U.S. Zone	<i>Germany</i>
7.250	41.38	--	GWI	Overseas Service*	<i>G. Britain</i>
7.250	41.38	1.	—	Rome	<i>Italy</i>
7.250	41.38	50	KGE1	Belmont, Cal.	<i>U.S.A.</i>
7.255	41.35	5	ZRK	Cape Town	<i>S. Africa</i>
7.257	41.34	1	—	Lagos	<i>Nigeria</i>
7.258	41.33	5	JKH	Tokio	<i>Japan</i>
7.260	41.32	50	OZU	Copenhagen	<i>Denmark</i>
7.260	41.32	—	GSU	Overseas Service*	<i>G. Britain</i>
7.260	41.32	100	VUD5	Delhi	<i>India</i>
7.260	41.32	10	VUM2	Madras	<i>India</i>
7.260	41.32	50	APK2	Karachi	<i>Pakistan</i>
7.260	41.32	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.265	41.29	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.270	41.27	—	—	Srinagar	<i>India</i>
7.270	41.27	3	YDB3	Djakarta, Java	<i>Indonesia</i>

Mc/s	Metres	kW	Call	Station and Country	
7.270	41.27	7.5	—	Valetta (B.F.)	Malta
7.270	41.27	50	—	Tangier	Tangier
7.270	41.27	—	—	Moscow, Russia	U.S.S.R.
7.272	41.26	100	—	Munich, U.S. Zone	Germany
7.275	41.24	5	ZRH	Johannesburg	S. Africa
7.275	41.24	100	VUD10	Delhi	India
7.280	41.21	100	VLA7	Shepparton, Vic.	Australia
7.280	41.21	50	VLC7	Shepparton, Vic.	Australia
7.280	41.21	2	VLT5	Port Moresby	Brit. New Guinea
7.280	41.21	100	—	Allouis	France
7.280	41.21	—	GWN	Overseas Service*	G. Britain
7.280	41.21	—	—	Moscow, Russia	U.S.S.R.
7.280	41.21	25	HVJ	Vatican City	Vatican City
7.285	41.18	5	JKJ	Tokio	Japan
7.285	41.18	2.5	ZQP	Lusaka	N. Rhodesia
7.285	41.18	100	TAS	Ankara	Turkey
7.290	41.15	20	—	Hamburg, Brit. Zone	Germany
7.290	41.15	100	VUD5	Delhi	India
7.295	41.12	1.3	ZOY	Accra	Gold Coast
7.295	41.12	5	—	Johannesburg	S. Africa
7.295	41.12	—	—	Moscow, Russia	U.S.S.R.
7.298	41.11	10	SVD2	Athens	Greece
7.299	41.10	1	CR6RC	Loando	Angola
7.300	41.10	—	—	Moscow, Russia	U.S.S.R.
7.310	41.04	—	—	Moscow, Russia	U.S.S.R.
7.315	41.01	1	YSO	San Salvador	Salvador
7.320	40.98	—	—	Moscow, Russia	U.S.S.R.
7.325	40.96	—	GRJ	Overseas Service*	G. Britain
7.327	40.94	1	BEM6	Lanchow	China
7.330	40.93	—	—	Kharkov, Ukraine	U.S.S.R.
7.330	40.93	—	—	Moscow, Russia	U.S.S.R.
7.340	40.87	—	—	Leningrad, Russia	U.S.S.R.
7.360	40.76	25	HET3	Schwarzenburg	Switzerland
7.360	40.76	—	RWG	Moscow, Russia	U.S.S.R.
7.380	40.66	1	FET	Madrid	Spain
7.390	40.60	—	—	Moscow, Russia	U.S.S.R.



Mc/s	Metres	kW	Call	Station and Country	
7.399	40.55	5	—	Tangier	<i>Tangier</i>
7.430	40.38	3	—	Korce	<i>Albania</i>
7.440	40.32	—	—	Stalinabad, Tadzhik	<i>U.S.S.R.</i>
7.500	40.00	10	—	Shensi	<i>China</i>
7.517	39.90	2	EA8AB	Teneriffe	<i>Canary Is.</i>
7.585	39.57	1	CR6RO	Silvo Porto	<i>Angola</i>
7.644	39.25	1	YNDG	Leon	<i>Nicaragua</i>
7.650	39.22	—	—	Leningrad, Russia	<i>U.S.S.R.</i>
7.670	39.11	5	—	Sofia	<i>Bulgaria</i>
7.790	38.51	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.855	38.19	3	ZAA	Tirana	<i>Albania</i>
7.860	38.17	10	SUX	Cairo	<i>Egypt</i>
7.934	37.81	12	PSL	Marapicu	<i>Brazil</i>
7.935	37.81	5	HLKA	Seoul	<i>Korea</i>
7.940	37.78	1.2	FET	Alicante	<i>Spain</i>
7.942	37.77	—	—	Rome	<i>Italy</i>
7.950	37.74	1	—	Duala	<i>Cameroons</i>
7.980	37.59	50	—	Tangier	<i>Tangier</i>
8.000	37.50	3	PMB2	Bandoeng, Java	<i>Indonesia</i>
8.037	37.33	2	FXE	Beirut	<i>Lebanon</i>
8.110	36.99	20	EPF	Teheran	<i>Persia</i>
8.125	36.92	1	TGBA	Mazatenango	<i>Guatemala</i>
8.215	36.52	3	—	Scutari	<i>Albania</i>
8.264	36.30	3	—	Shkodra	<i>Albania</i>
8.265	36.30	5	VED	Edmonton, Alberta	<i>Canada</i>
8.404	35.70	1	—	Godthaab	<i>Greenland</i>
8.645	34.70	—	—	Moscow, Russia	<i>U.S.S.R.</i>
8.665	34.62	1	COJK	Camaguey	<i>Cuba</i>
8.760	34.25	—	—	Moscow, Russia	<i>U.S.S.R.</i>
8.820	34.01	—	—	Khabarovsk, Russia	<i>U.S.S.R.</i>
8.825	34.00	5	COCQ	Havana	<i>Cuba</i>
8.830	33.98	—	—	Moscow, Russia	<i>U.S.S.R.</i>
8.910	33.67	—	—	Moscow, Russia	<i>U.S.S.R.</i>
8.955	33.50	1.2	COKG	Santiago	<i>Cuba</i>
8.990	33.37	10	BED32	Taipei	<i>Formosa</i>
9.000	33.33	7.5	—	Tel-Aviv	<i>Israel</i>
9.025	33.24	1	COBZ	Havana	<i>Cuba</i>

Mc/s	Metres	kW	Call	Station and Country	
9.045	33.17	—	—	Moscow, Russia	U.S.S.R.
9.052	33.10	10	—	Shensi	China
9.052	33.10	20	FZP8	Papeete	Tahiti
9.060	33.11	7	TFK	Reykjavik	Iceland
9.149	32.79	1	—	Duala	Cameroons
9.197	32.62	5	CE920	Punta Arenas	Chile
9.225	32.52	7.5	—	Warsaw	Poland
9.235	32.48	1	COBQ	Havana	Cuba
9.250	32.43	1	CR6RD	Nova Lisboa	Angola
9.255	32.41	4	—	Bucharest	Rumania
9.270	32.36	1	COCX	Havana	Cuba
9.286	32.29	1	CP25	La Paz	Bolivia
9.290	32.28	5	PRN9	Rio de Janeiro	Brazil
9.320	32.19	25	LRS2	Buenos Aires	Argentina
9.336	32.13	1	OAX4J	Lima	Peru
9.340	32.12	25	—	Andorra	Andorra
* 9.340	32.12	—	—	Alma Ata, Kazakh	U.S.S.R.
9.350	32.10	25	HBL	Geneva	Switzerland
9.363	32.04	1	COBC	Havana	Cuba
9.368	32.02	40	—	Madrid	Spain
9.378	31.98	—	—	Khabarovsk, Russia	U.S.S.R.
9.380	31.97	—	—	Alma Ata, Kazakh	U.S.S.R.
9.395	31.92	2	OAX4W	Lima	Peru
9.400	31.91	50	OTM2	Leopoldville	Belg. Congo
9.410	31.88	—	GRI	Overseas Service*	G. Britain
9.410	31.88	—	—	Leningrad, Russia	U.S.S.R.
9.430	31.81	12	—	Saigon	Fr. Indo-China
9.435	31.80	5	COCH	Havana	Cuba
9.435	31.80	—	—	Moscow, Russia	U.S.S.R.
9.440	31.78	50	FZI	Brazzaville	Fr. Eq. Africa
9.450	31.75	10	LRV1	Buenos Aires	Argentina
9.465	31.70	100	TAP	Ankara	Turkey
9.470	31.68	1	CR6RL	Loando	Angola
9.480	31.65	100	—	Munich, U.S. Zone	Germany
9.480	31.65	—	—	Moscow, Russia	U.S.S.R.
9.490	31.61	5	CP38	La Paz	Bolivia

Mc/s	Metres	kW	Call	Station and Country
9.491	31.60	15	ZEA	Salisbury <i>S. Rhodesia</i>
9.500	31.58	2	VLI9	Sydney, N.S.W. <i>Australia</i>
9.500	31.58	12	PRF5	Marapicu <i>Brazil</i>
9.500	31.58	10	XEWW	Mexico City <i>Mexico</i>
9.500	31.58	—	—	Minsk, Byelorussia <i>U.S.S.R.</i>
9.501	31.58	1	DZH3	Manila <i>Philippines</i>
9.504	31.57	30	OLR3B	Podebrady <i>Czechoslovakia</i>
9.505	31.57	5	PRB9	Sao Paulo <i>Brazil</i>
9.505	31.57	15	JBD	Osaka <i>Japan</i>
9.505	31.57	1	HOLA	Colon <i>Panama</i>
9.507	31.56	10	YUC	Belgrade <i>Yugoslavia</i>
9.510	31.55	—	GSB	Overseas Service* <i>G. Britain</i>
9.515	31.53	1	FNR1	Tananarive <i>Madagascar</i>
9.515	31.53	100	TAT	Ankara <i>Turkey</i>
9.515	31.53	50	KRCA1	Dixon, Cal. <i>U.S.A.</i>
9.520	31.51	7.5	CBFR	Vercheres, Quebec <i>Canada</i>
9.520	31.51	100	—	Colombo <i>Ceylon</i>
9.520	31.51	5	HJKF	Bogota <i>Colombia</i>
9.520	31.51	50	OZF	Copenhagen <i>Denmark</i>
9.520	31.51	100	—	Allouis <i>France</i>
9.520	31.51	2	ZBW3	Victoria <i>Hong Kong</i>
9.520	31.51	2	VLT7	Port Moresby <i>Brit. New Guinea</i>
9.523	31.50	5	ZRG	Johannesburg <i>S. Africa</i>
9.525	31.50	—	GWJ	Overseas Service* <i>G. Britain</i>
9.525	31.50	12	—	Saigon <i>Fr. Indo-China</i>
9.525	31.50	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.526	31.49	7.5	SP13	Warsaw <i>Poland</i>
9.526	31.49	20	—	Damascus <i>Syria</i>
9.528	31.49	5	—	Luxembourg <i>Luxembourg</i>
9.530	31.48	3	ZDJ4	Bathurst <i>Gambia</i>
9.530	31.48	10	VUC2	Calcutta <i>India</i>
9.530	31.48	50	—	Manila <i>Philippines</i>
9.530	31.48	1	YSLI	San Salvador <i>Salvador</i>
9.530	31.48	50	KGEI	Belmont, Cal. <i>U.S.A.</i>
9.530	31.48	100	WGEO1	Schenectady, N.Y. <i>U.S.A.</i>
9.535	31.46	1	VPD2	Suva <i>Fiji Islands</i>
9.535	31.46	10	—	Tromso <i>Norway</i>
9.535	31.46	12	SBU	Motala <i>Sweden</i>

Mc/s	Metres	kW	Call	Station and Country	
9.535	31.46	25	HER4	Schwarzenburg	Switzerland
9.538	31.45	7.5	—	Rangoon	Burma
9.540	31.45	2	VLR9	Lyndhurst, Vic.	Australia
9.540	31.45	50	VLC9	Shepparton, Vic.	Australia
9.540	31.45	100	VLB9	Shepparton, Vic.	Australia
9.540	31.45	1	VE9AI	Edmonton, Alberta	Canada
9.540	31.45	100	—	Allouis	France
9.540	31.45	100	—	Munich, U.S. Zone	Germany
9.540	31.45	7.5	ZL2	Wellington	New Zealand
9.540	31.45	50	—	Tangier	Tangier
9.545	31.43	10	LRV	Buenos Aires	Argentina
9.545	31.43	—	—	Moscow, Russia	U.S.S.R.
9.550	31.41	5	COCO	Havana	Cuba
9.550	31.41	30	OLR3A	Podebrady	Czechoslovakia
9.550	31.41	100	—	Allouis	France
9.550	31.41	—	GWB	Overseas Service*	G. Britain
9.550	31.41	10	VUB2	Bombay	India
9.550	31.41	5	YDQ	Macassar, Celebes	Indonesia
9.550	31.41	5	LKJ	Tromso	Norway
9.550	31.41	1	DZ12	Rizal	Philippines
9.550	31.41	50	KGE1	Belmont, Cal.	U.S.A.
9.550	31.41	50	WRCA4	Bound Brook, N.J.	U.S.A.
9.550	31.41	50	WGEO2	Schenectady, N.Y.	U.S.A.
9.550	31.41	—	—	Moscow, Russia	U.S.S.R.
9.550	31.41	25	HVJ	Vatican City	Vatican City
9.554	31.40	1	XETT	Mexico City	Mexico
9.555	31.40	15	OIX2	Pori	Finland
9.560	31.38	100	—	Les Essarts	France
9.560	31.38	5	JBD2	Osaka	Japan
9.560	31.38	50	—	Tangier	Tangier
*9.562	31.37	10	OAX4T	Lima	Peru
9.565	31.36	60	ZYK3	Recife	Brazil
9.565	31.36	100	VUD5	Delhi	India
9.565	31.36	7.5	—	Warsaw	Poland
9.565	31.36	—	—	Komsomolsk, Siberia	U.S.S.R.
9.570	31.35	10	—	Algiers	Algeria
9.570	31.35	1	—	Linz, U.S. Zone	Austria
9.570	31.35	—	GWX	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
9.570	31.35	—	—	Rome	<i>Italy</i>
9.570	31.35	50	WBOS	Boston, Mass.	<i>U.S.A.</i>
9.570	31.35	20	WRUL4	Boston, Mass.	<i>U.S.A.</i>
9.570	31.35	100	KWID1	San Francisco, Cal.	<i>U.S.A.</i>
9.570	31.35	50	KWID2	San Francisco, Cal.	<i>U.S.A.</i>
9.573	31.34	1	CR6RD	Nova Lisboa	<i>Angola</i>
9.575	31.33	7.5	VUD8	Delhi	<i>India</i>
9.580	31.32	10	VLH9	Lyndhurst, Vic.	<i>Australia</i>
9.580	31.32	100	VLB9	Shepparton, Vic.	<i>Australia</i>
9.580	31.32	—	GSC	Overseas Service*	<i>G. Britain</i>
9.590	31.28	100	VUD5	Delhi	<i>India</i>
9.590	31.28	10	VUM2	Madras	<i>India</i>
9.590	31.28	10	CR7BF	Lourenco Marques	<i>Mozambique</i>
9.590	31.28	30	PCJ	Huizen	<i>Netherlands</i>
9.590	31.28	75	WLWO1	Cincinnati, Ohio	<i>U.S.A.</i>
9.590	31.28	50	WLWO2	Cincinnati, Ohio	<i>U.S.A.</i>
9.590	31.28	200	WLWO3	Cincinnati, Ohio	<i>U.S.A.</i>
9.593	31.27	2	CE960	Santiago	<i>Chile</i>
9.595	31.27	1.5	—	Athlone	<i>Ireland</i>
9.600	31.25	12	PRF5	Marapicu	<i>Brazil</i>
9.600	31.25	—	GRY	Overseas Service*	<i>G. Britain</i>
9.600	31.25	5	—	Johannesburg	<i>S. Africa</i>
9.600	31.25	200	KCBR1	Delano, Cal.	<i>U.S.A.</i>
9.600	31.25	200	KRCA	Dixon, Cal.	<i>U.S.A.</i>
9.600	31.25	—	—	Leningrad, Russia	<i>U.S.S.R.</i>
9.605	31.24	7.5	—	Athens	<i>Greece</i>
9.605	31.24	5	JKL2	Tokio (A.F.)	<i>Japan</i>
9.606	31.23	5	ZRL	Cape Town	<i>S. Africa</i>
9.607	31.23	1	HP5J	Panama City	<i>Panama</i>
9.608	31.22	1	CR8AA	Nova Goa	<i>Goa</i>
9.610	31.22	2	VLW9	Perth, W.A.	<i>Australia</i>
9.610	31.22	10	VLX9	Perth, W.A.	<i>Australia</i>
9.610	31.22	25	ZYC8	Rio de Janeiro	<i>Brazil</i>
9.610	31.22	50	CHLS	Sackville, N.B.	<i>Canada</i>
9.610	31.22	7.5	CBFX	Vercheres, Quebec	<i>Canada</i>
9.610	31.22	100	LLG	Fredrikstad	<i>Norway</i>
9.610	31.22	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.615	31.20	100	VLA9	Shepparton, Vic.	<i>Australia</i>

Mc/s <sub>c</sub>	Metres	kW	Call	Station and Country	
9.615	31.20	100	VLB9	Shepparton, Vic.	<i>Australia</i>
9.615	31.20	50	VLC9	Shepparton, Vic.	<i>Australia</i>
9.615	31.20	5	XERQ	Mexico City	<i>Mexico</i>
9.615	31.20	1	CR5ST	Sao Thome	<i>St. Thomas Is.</i>
9.615	31.20	50	WRCA1	Bound Brook, N.J.	<i>U.S.A.</i>
9.615	31.20	50	WRCA2	Bound Brook, N.J.	<i>U.S.A.</i>
9.619	31.19	2.5	TIPG	San Jose	<i>Costa Rica</i>
9.620	31.19	25	—	Realtort	<i>France</i>
9.620	31.19	100	VUD5	Delhi	<i>India</i>
9.620	31.19	7.5	ZL8	Wellington	<i>New Zealand</i>
9.620	31.19	20	CXA6	Montevideo	<i>Uruguay</i>
9.625	31.17	—	GWO	Overseas Service*	<i>G. Britain</i>
9.625	31.17	10	XEBT	Mexico City	<i>Mexico</i>
9.625	31.17	—	—	Alma Ata, Kazakh	<i>U.S.S.R.</i>
9.630	31.15	50	CKLO	Sackville, N.B.	<i>Canada</i>
9.630	31.15	7.5	CBFO	Vercheres, Quebec	<i>Canada</i>
9.630	31.15	5	HJCB	Bogota	<i>Colombia</i>
9.630	31.15	20	VUD10	Delhi	<i>India</i>
9.630	31.15	50	IBU1	Milan	<i>Italy</i>
9.630	31.15	100	—	Rome	<i>Italy</i>
9.630	31.15	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.640	31.12	50	LRV	Buenos Aires	<i>Argentina</i>
9.640	31.12	50	CHMD	Sackville, N.B.	<i>Canada</i>
9.640	31.12	5	COX2	Havana	<i>Cuba</i>
9.640	31.12	—	GVZ	Overseas Service*	<i>G. Britain</i>
9.640	31.12	1	DZH2	Manila	<i>Philippines</i>
9.640	31.12	3	CXA8	Colonia	<i>Uruguay</i>
9.640	31.12	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.640	31.12	10	YVKC	Caracas	<i>Venezuela</i>
9.642	31.11	25	HVJ4	Vatican City	<i>Vatican City</i>
9.645	31.10	50	—	Leopoldville	<i>Belg. Congo</i>
9.645	31.10	1.8	ZOY	Accra	<i>Gold Coast</i>
9.645	31.10	10	LLH	Fredrikstad	<i>Norway</i>
9.645	31.10	50	APK2	Karachi	<i>Pakistan</i>
9.645	31.10	3	—	Jidda	<i>Saudi Arabia</i>
9.650	31.09	100	VLB9	Shepparton, Vic.	<i>Australia</i>
9.650	31.09	7.5	—	Limassol	<i>Cyprus</i>
9.650	31.09	100	—	Allouis	<i>France</i>
9.650	31.09	100	KRHK	Honolulu	<i>Hawaii</i>

Mc/s	Metres	kW	Call	Station and Country	
9.650	31.09	50	<del>WABC1</del>	Brentwood, N.Y.	U.S.A. <b>WDSI</b>
9.650	31.09	50	KRCA	Dixon, Cal.	U.S.A.
9.650	31.09	—	—	Moscow, Russia	U.S.S.R.
9.653	31.08	1	—	Lagos	Nigeria
9.655	31.07	5	JKI2	Tokio	Japan
9.655	31.07	25	HED6	Schwarzenburg	Switzerland
9.655	31.07	25	HVJ4	Vatican City	Vatican City
9.660	31.06	10	VLQ9	Brisbane, Qld.	Australia
9.660	31.06	25	LRX	Buenos Aires	Argentina
9.660	31.06	—	GWP	Overseas Service*	G. Britain
9.660	31.06	1	4VBM	Port au Prince	Haiti
9.660	31.06	20	VUD11	Delhi	India
9.660	31.06	7.5	HOXC	Panama City	Panama
9.660	31.06	7	EQC	Teheran	Persia
9.660	31.06	—	—	Moscow, Russia	U.S.S.R.
9.665	31.04	5	ORR	Ruiselede	Belgium
9.665	31.04	25	HEU3	Schwarzenburg	Switzerland
9.670	31.02	5	HJAI	Cartagena	Colombia
9.670	31.02	30	OLR3C	Podebrady	Czechoslovakia
9.670	31.02	—	—	Rome	Italy
9.670	31.02	5	VUD3	Delhi	India
9.670	31.02	50	CSA24	Lisbon	Portugal
9.670	31.02	50	KGE11	Belmont, Cal.	U.S.A.
9.670	31.02	100	WRCA3	Bound Brook, N.J.	U.S.A.
9.670	31.02	50	KGE11	San Francisco, Cal.	U.S.A.
9.670	31.02	50	WABC6	Wayne, N.J.	U.S.A.
9.670	31.02	—	—	Moscow, Russia	U.S.S.R.
9.670	31.02	—	—	Kiev, Ukraine	U.S.S.R.
9.675	31.01	—	GWT	Overseas Service*	G. Britain
9.680	30.99	10	VLG9	Lyndhurst, Vic.	Australia
9.680	30.99	100	VLB9	Shepparton, Vic.	Australia
9.680	30.99	50	VLC9	Shepparton, Vic.	Australia
9.680	30.99	1	HI2A	Santiago Caballeros	Dominican Rep.
9.680	30.99	100	—	Allouis	France
9.680	30.99	10	VUD2	Delhi	India
9.680	30.99	1	XEQQ	Mexico City	Mexico
9.680	30.99	50	—	Tangier	Tangier
9.680	30.99	—	—	Moscow, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
9.690	30.96	10	LRA1	Buenos Aires	Argentina
9.690	30.96	2.5	HJCAB	Bogota	Colombia
9.690	30.96	—	GRX	Overseas Service*	G. Britain
9.690	30.96	7.5	—	Singapore	Malaya
9.690	30.96	—	—	Moscow, Russia	U.S.S.R.
9.695	30.94	5	JKM2	Osaka	Japan
9.695	30.94	1.5	FZF6	Fort de France	Martinique
9.700	30.93	5	CE970	Santiago	Chile
9.700	30.93	—	GWY	Overseas Service*	G. Britain
9.700	30.93	20	WRUL2	Boston, Mass.	U.S.A.
9.700	30.93	200	WLWO8	Cincinnati, Ohio	U.S.A.
9.700	30.93	50	KCBR3	Delano, Cal.	U.S.A.
9.700	30.93	50	WABC5	Wayne, N.J.	U.S.A.
9.710	30.90	—	—	Moscow, Russia	U.S.S.R.
9.715	30.88	2.5	ZQP	Lusaka	N. Rhodesia
9.720	30.86	50	PRL7	Rio de Janeiro	Brazil
9.720	30.86	10	VUD	Delhi	India
9.720	30.86	—	—	Moscow, Russia	U.S.S.R.
9.725	30.85	—	—	Komsomolsk, Siberia	U.S.S.R.
9.727	30.84	12	—	Leipzig, U.S.S.R. Zone	Germany
9.727	30.84	10	CSA26	Lisbon	Portugal
9.730	30.83	10	CE970	Valparaiso	Chile
9.730	30.83	2	BEA8	Nanking	China
9.730	30.83	5	—	Shanghai	China
9.730	30.83	3	DZH7	Manila	Philippines
9.735	30.82	7.5	HI2T	Monsenor Nouel	Dominican Rep.
9.735	30.82	1	ZPA4	Ascuncion	Paraguay
9.740	30.80	—	—	Moscow, Russia	U.S.S.R.
9.747	30.78	50	CSA27	Lisbon	Portugal
9.747	30.78	6.5	—	Omdurman	Sudan
9.750	30.77	—	—	Leningrad, Russia	U.S.S.R.
9.754	30.76	1	CR6RL	Loando	Angola
9.755	30.76	50	APK	Karachi	Pakistan
9.760	30.74	—	—	Moscow, Russia	U.S.S.R.
9.764	30.73	1	ETA	Addis Ababa	Ethiopia
9.764	30.73	10	TGWA	Guatemala City	Guatemala



Mc/s	Metres	kW	Call	Station and Country
9.765	30.72	10	CR7BE	Lourenco Marques <i>Mozambique</i>
9.768	30.71	50	OTC2	Leopoldville <i>Belg. Congo</i>
9.770	30.71	1	PRL4	Rio de Janeiro <i>Brazil</i>
9.780	30.67	100	—	Munich, U.S. Zone <i>Germany</i>
9.780	30.67	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.785	30.66	25	—	Monte Carlo <i>Monaco</i>
9.790	30.64	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.797	30.62	—	—	Kiev, Ukraine <i>U.S.S.R.</i>
9.800	30.61	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.803	30.60	7.5	CR7BJ	Lourenco Marques <i>Mozambique</i>
9.805	30.60	1	YDS	Menado, Celebes <i>Indonesia</i>
9.825	30.54	7.5	—	Colombo <i>Ceylon</i>
9.825	30.54	—	GRH	Overseas Service* <i>G. Britain</i>
9.830	30.52	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.832	30.51	100	—	Budapest <i>Hungary</i>
9.832	30.51	40	EAQ	Madrid <i>Spain</i>
9.833	30.51	1	COBL	Havana <i>Cuba</i>
9.836	30.50	—	—	Leningrad, Russia <i>U.S.S.R.</i>
9.837	30.49	1.4	4VRW	Port au Prince <i>Haiti</i>
9.854	30.45	25	HVJ	Vatican City <i>Vatican City</i>
9.870	30.40	1	—	Johannesburg <i>S. Africa</i>
9.880	30.36	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.915	30.26	—	GRU	Overseas Service* <i>G. Britain</i>
9.940	30.18	1	HNF	Baghdad <i>Iraq</i>
9.953	30.14	1.5	FZI	Brazzaville <i>Fr. Eq. Africa</i>
9.957	30.13	1	HCJB	Quito <i>Ecuador</i>
9.960	30.12	3	—	Tirana <i>Albania</i>
10.057	29.83	10	SUV	Cairo <i>Egypt</i>
10.060	29.82	—	PMB3	Bandoeng, Java <i>Indonesia</i>
10.090	29.73	10	BEC23	Taipei <i>Formosa</i>
10.220	29.35	12	PSH	Marapicu <i>Brazil</i>
10.262	29.23	10	—	Peking <i>China</i>
10.350	28.99	10	LQA5	Buenos Aires <i>Argentina</i>
10.365	28.94	3	PLB4	Djakarta, Java <i>Indonesia</i>
10.395	28.83	25	HED4	Schwarzenburg <i>Switzerland</i>
10.660	28.14	—	—	Moscow, Russia <i>U.S.S.R.</i>

Mc/s	Metres	kW	Call	Station and Country	
10.730	27.96	5	VQG3	Nairobi	Kenya
10.750	27.91	1	FLA6	Duala	Cameroon
10.780	27.83	12	SDB2	Motala	Sweden
11.000	27.27	3	PLB9	Djakarta, Java	Indonesia
11.030	27.20	10	CSA29	Lisbon	Portugal
11.035	27.19	1	CR6RA	Lobito	Angola
11.040	27.17	50	CSA30	Lisbon	Portugal
11.090	27.05	1	CSA92	Ponta Delgada	Azores
11.117	26.99	—	—	Moscow, Russia	U.S.S.R.
11.570	25.93	50	APK3	Karachi	Pakistan
11.630	25.79	—	—	Leningrad, Russia	U.S.S.R.
11.630	25.79	—	—	Moscow, Russia	U.S.S.R.
11.645	25.76	50	OTC3	Leopoldville	Belg. Congo
11.645	25.76	12	—	Saigon	Fr. Indo-China
11.678	25.69	—	—	Achkhabad, Turkmenia	U.S.S.R.
11.680	25.68	—	GRG	Overseas Service*	G. Britain
11.680	25.68	25	HVJ	Vatican City	Vatican City
11.682	25.68	1	HJCQ	Bogota	Colombia
11.690	25.66	10	—	Peking	China
11.690	25.66	—	—	Moscow, Russia	U.S.S.R.
11.695	25.65	1	HP5A	Panama City	Panama
11.700	25.64	100	—	Allouis	France
11.700	25.64	—	GVW	Overseas Service*	G. Britain
11.705	25.63	50	CKXA	Sackville, N.B.	Canada
11.705	25.63	7.5	CBFY	Vercheres, Quebec	Canada
11.705	25.63	12.100	SBP	Motala	Sweden
11.710	25.62	10	VLG11	Lyndhurst, Vic.	Australia
11.710	25.62	100	—	Allouis	France
11.710	25.62	100	VUD7	Delhi	India
11.710	25.62	50	WRUL2	Boston, Mass.	U.S.A.
11.710	25.62	200	WLWO3	Cincinnati, Ohio	U.S.A.
11.710	25.62	200	WLWO5	Cincinnati, Ohio	U.S.A.
11.710	25.62	—	—	Moscow, Russia	U.S.S.R.
11.715	25.61	25	HEI5	Schwarzenburg	Switzerland
11.716	25.61	7.5	—	Limassol	Cyprus
11.720	25.60	7.5	OTM4	Leopoldville	Belg. Congo
11.720	25.60	5	ORY2	Ruiselede	Belgium
11.720	25.60	50	PRL8	Rio de Janeiro	Brazil

Mc/s	Metres	kW	Call	Station and Country	
11.720	25.60	50	CHOL	Sackville, N.B.	Canada
11.720	25.60	7.5	CBFL	Vercheres, Quebec	Canada
11.720	25.60	2	CKRX	Winnipeg, Manitoba	Canada
11.720	25.60	—	—	Leningrad, Russia	U.S.S.R.
11.725	25.59	50	WRUL	Boston, Mass.	U.S.A.
11.725	25.59	—	—	Moscow, Russia	U.S.S.R.
11.730	25.58	100	—	Allouis	France
11.730	25.58	—	GVV	Overseas Service*	G. Britain
11.730	25.58	5	PHI	Lopik	Netherlands
11.730	25.58	100	KGE12	Belmont, Cal.	U.S.A.
11.735	25.56	1	CR6RC	Loando	Angola
11.735	25.56	10	BED6	Taipei	Formosa
11.735	25.56	8	LKQ	Fredrikstad	Norway
11.735	25.56	5	CXA7	Montevideo	Uruguay
11.740	25.55	100	VLB11	Shepparton, Vic.	Australia
11.740	25.55	15	COCY	Havana	Cuba
11.740	25.55	1.5	—	Athlone	Ireland
11.740	25.55	—	—	Moscow, Russia	U.S.S.R.
11.740	25.55	25	HVJ3	Vatican City	Vatican City
11.743	25.54	4	CE1174	Santiago	Chile
11.750	25.53	—	GSD	Overseas Service*	G. Britain
11.750	25.53	—	APL	Lahore	Pakistan
11.750	25.53	4	—	Jidda	Saudi Arabia
11.750	25.53	20	—	Damascus	Syria
11.750	25.53	—	—	Komsomolsk, Siberia	U.S.S.R.
11.750	25.53	—	—	Leningrad, Russia	U.S.S.R.
11.760	25.51	10	VLG11	Lyndhurst, Vic.	Australia
11.760	25.51	100	VLA11	Shepparton, Vic.	Australia
11.760	25.51	100	VLB11	Shepparton, Vic.	Australia
11.760	25.51	50	VLC11	Shepparton, Vic.	Australia
11.760	25.51	50	CKRA	Sackville, N.B.	Canada
11.760	25.51	7.5	CBFA	Vercheres, Quebec	Canada
11.760	25.51	30	OLR4B	Podebrady	Czechoslovakia
11.760	25.51	20	VUD11	Delhi	India
11.760	25.51	7.5	CR7BE	Lourenco Marques	Mozambique
11.760	25.51	20	TAK	Ankara	Turkey
11.760	25.51	—	—	Minsk, Byelorussia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
11.765	25.50	25	ZYB8	Sao Paulo	Brazil
11.765	25.50	—	—	Moscow, Russia	U.S.S.R.
11.770	25.49	100	VLA11	Shepparton, Vic.	Australia
11.770	25.49	100	—	Colombo	Ceylon
11.770	25.49	—	GVU	Overseas Service*	G. Britain
11.770	25.49	3	YDE	Djakarta, Java	Indonesia
11.770	25.49	50	APK	Karachi	Pakistan
11.770	25.49	50	WRCA2	Bound Brook, N.J.	U.S.A.
11.775	25.48	25	HEI6	Schwarzenburg	Switzerland
11.780	25.47	10	OIX3	Lahti	Finland
11.780	25.47	100	—	Allouis	France
11.780	25.47	7.5	ZL3	Wellington	New Zealand
11.780	25.47	—	—	Moscow, Russia	U.S.S.R.
11.782	25.46	1	XENN	Mexico City	Mexico
11.783	25.46	12	—	Saigon	Fr. Indo-China
11.785	25.46	100	YDF2	Djakarta, Java	Indonesia
11.785	25.46	7.5	—	Valetta (B.F.)	Malta
11.785	25.46	1	CR5ST	Sao Thome	St. Thomas Is.
11.790	25.45	—	—	Overseas Service*	G. Britain
11.790	24.45	100	KRHO	Honolulu	Hawaii
11.790	25.45	100	VUD5	Delhi	India
11.790	25.45	50	—	Manila	Philippines
11.790	25.45	50	—	Tangier	Tangier
11.790	25.45	50	WRUL1	Boston, Mass.	U.S.A.
11.790	25.45	50	KRCA2	Dixon, Cal.	U.S.A.
11.790	25.45	—	—	Moscow, Russia	U.S.S.R.
11.800	25.42	1	COBH	Havana	Cuba
11.800	25.42	10	BED4	Taipei	Formosa
11.800	25.42	—	GWH	Overseas Service*	G. Britain
11.800	25.42	5	JKI4	Tokio (A.F.)	Japan
11.805	25.41	6	OZG	Kalundborg	Denmark
11.805	25.41	—	—	Moscow, Russia	U.S.S.R.
11.810	25.40	100	VLB11	Shepparton, Vic.	Australia
11.810	25.40	50	VLC11	Shepparton, Vic.	Australia
11.810	25.40	1	CE1180	Santiago	Chile
11.810	25.40	10	VUD	Delhi	India
11.810	25.40	50	IBJ2	Milan	Italy
11.810	25.40	7.5	ZL3	Wellington	New Zealand
11.810	25.40	50	APK	Karachi	Pakistan

Mc/s	Metres	kW	Call	Station and Country	
11.810	25.40	7.5	HOXB	Panama City	Panama
11.810	25.40	50	KCBR3	Delano, Cal.	U.S.A.
11.812	25.40	—	—	Rome	Italy
11.815	25.39	7.5	—	Warsaw	Poland
11.815	25.39	25	HEU5	Schwarzenburg	Switzerland
11.820	25.38	—	GSN	Overseas Service*	G. Britain
11.820	25.38	—	—	Moscow, Russia	U.S.S.R.
11.830	25.36	12	—	Saigon	Fr. Indo-China
11.830	25.36	2	VLW11	Perth, W.A.	Australia
11.830	25.36	10	VUD4	Delhi	India
11.830	25.36	10	LKU	Fredrikstad	Norway
11.830	25.36	50	WABC1	Brentwood, N.Y.	U.S.A.
11.830	25.36	50	WGEO2	Schenectady, N.Y.	U.S.A.
11.830	25.36	50	WABC5	Wayne, N.J.	U.S.A.
11.830	25.36	50	WABC6	Wayne, N.J.	U.S.A.
11.830	25.36	—	—	Moscow, Russia	U.S.S.R.
11.833	25.35	5	CXA19	Montevideo	Uruguay
11.835	25.35	10	THA	Algiers	Algeria
11.840	25.34	5	LRT	Tucuman	Argentina
11.840	25.34	10	VLG11	Lyndhurst, Vic.	Australia
11.840	25.34	50	VLC11	Shepparton, Vic.	Australia
11.840	25.34	7.5	—	Rangoon	Burma
11.840	25.34	30	OLR4A	Podebrady	Czechoslovakia
11.840	25.34	—	GWQ	Overseas Service*	G. Britain
11.840	25.34	10	CSA31	Lisbon	Portugal
11.841	25.34	—	—	Achkhabad, Turkmenia	U.S.S.R.
11.845	25.33	25	—	Muret	France
11.845	25.33	50	APK2	Karachi	Pakistan
11.847	25.32	50	KGEI	Belmont, Cal.	U.S.A.
11.847	25.32	100	WGEO	Schenectady, N.Y.	U.S.A.
11.850	25.32	100	VLB11	Shepparton, Vic.	Australia
11.850	25.32	5	ORY	Ruiselede	Belgium
11.850	25.32	12	—	Marapicu	Brazil
11.850	25.32	25	CE1185	Santiago	Chile
11.850	25.32	20	VUD11	Delhi	India
11.850	25.32	5	—	Jidda	Saudi Arabia
11.852	25.31	8	LLK	Fredrikstad	Norway
11.852	25.31	1.2	ZPA3	Ascuncion	Paraguay

Mc/s	Metres	kW	Call	Station and Country
11.860	25.30	—	GSE	Overseas Service* <i>G. Britain</i>
11.860	25.30	50	KWID2	San Francisco, Cal. <i>U.S.A.</i>
11.860	25.30	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.865	25.28	100	HER5	Schwarzenburg <i>Switzerland</i>
11.865	25.28	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.870	25.27	50	VLC11	Shepparton, Vic. <i>Australia</i>
11.870	25.27	100	—	Munich, U.S. Zone <i>Germany</i>
11.870	25.27	7.5	VUD9	Delhi <i>India</i>
11.870	25.27	50	—	Tangier <i>Tangier</i>
11.870	25.27	50	WBOS	Boston, Mass. <i>U.S.A.</i>
11.875	25.26	30	OLR4C	Podebrady <i>Czechoslovakia</i>
11.875	25.26	7.5	APD	Dacca <i>Pakistan</i>
11.875	25.26	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.880	25.25	5	LRA	Buenos Aires <i>Argentina</i>
11.880	25.25	10	VLH11	Lyndhurst, Vic. <i>Australia</i>
11.880	25.25	100	VLA11	Shepparton, Vic. <i>Australia</i>
11.880	25.25	—	GRE	Overseas Service* <i>G. Britain</i>
11.880	25.25	7.5	—	Singapore <i>Malaya</i>
11.880	25.25	1	XEHH	Mexico City <i>Mexico</i>
11.880	25.25	100	TAO	Ankara <i>Turkey</i>
11.885	25.24	25	—	Muret <i>France</i>
11.885	25.24	—	—	Petropavlovsk, Russia <i>U.S.S.R.</i>
11.890	25.23	—	GWV	Overseas Service* <i>G. Britain</i>
11.890	25.23	20	VUD	Delhi <i>India</i>
11.890	25.23	50	—	Manila <i>Philippines</i>
11.890	25.23	50	WRCA3	Bound Brook, N.J. <i>U.S.A.</i>
11.890	25.23	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.893	25.22	5	ORY3	Ruiselede <i>Belgium</i>
11.893	25.22	50	WRCA5	Bound Brook, N.J. <i>U.S.A.</i>
11.895	25.22	1	VPD2	Suva <i>Fiji Islands</i>
11.895	25.22	7.5	—	Valetta (B.F.) <i>Malta</i>
11.895	25.22	12	FHE3	Dakar <i>Senegal</i>
11.900	25.21	10	VLG11	Lyndhurst, Vic. <i>Australia</i>
11.900	25.21	50	CKEX	Sackville, N.B. <i>Canada</i>
11.900	25.21	5	CE1190	Valparaiso <i>Chile</i>
11.900	25.21	30	OLR4D	Podebrady <i>Czechoslovakia</i>
11.900	25.21	4	—	Bucharest <i>Rumania</i>
11.900	25.21	20	CXA10	Montevideo <i>Uruguay</i>

Mc/s	Metres	kW	Call	Station and Country
11.900	25.21	100	KWID1	San Francisco, Cal. U.S.A.
11.900	25.21	—	—	Moscow, Russia U.S.S.R.
11.905	25.19	60	—	Rome Italy
11.910	25.19	100	—	Budapest Hungary
11.910	25.19	1	H S $\sigma$ + D	Bangkok Siam
11.920	25.17	—	—	Moscow, Russia U.S.S.R.
11.925	25.16	1	CR6RD	Nova Lisboa Angola
11.925	25.16	50	CSA32	Lisbon Portugal
11.930	25.15	—	GVX	Overseas Service* G. Britain
11.936	25.14	5	—	Johannesburg S. Africa
11.940	25.13	12	CNR2	Rabat French Morocco
11.950	25.10	5	ZPA5	Encarnacion Paraguay
11.950	25.10	5	—	Jidda Saudi Arabia
11.950	25.10	—	—	Moscow, Russia U.S.S.R.
11.955	25.09	—	GVY	Overseas Service* G. Britain
11.960	25.08	25	HEK4	Schwarzenburg Switzerland
11.960	25.08	—	—	Moscow, Russia U.S.S.R.
11.965	25.07	25	HEF7	Schwarzenburg Switzerland
11.972	25.06	7	FZI	Brazzaville Fr. Eq. Africa
11.975	25.05	7.5	—	Colombo Ceylon
12.000	25.00	20	—	Damascus Syria
12.003	24.99	1	CE1180	Santiago Chile
12.015	24.97	3	PJC2	Willemstad Curacao
12.020	24.96	—	—	Moscow, Russia U.S.S.R.
12.040	24.92	—	GRV	Overseas Service* G. Britain
12.080	24.83	12	PST	Marapicu Brazil
12.080	24.83	20	FZP8	Papeete Tahiti
12.095	24.80	—	GRF	Overseas Service* G. Britain
12.116	24.76	12	THA	Algiers Algeria
12.126	24.74	5	FIQA	Tananarive Madagascar
12.174	24.65	7	TFJ	Reykjavik Iceland
12.270	24.45	—	—	Moscow, Russia U.S.S.R.
12.462	24.08	10	HCJB	Quito Ecuador
12.750	23.53	1	CSA33	Lisbon Portugal
12.865	23.32	10	CSB51	Lisbon Portugal
13.400	22.39	—	—	Moscow, Russia U.S.S.R.
14.400	20.85	25	—	Andorra Andorra
14.462	20.74	25	HBZ3	Geneva Switzerland
14.538	20.64	25	HBZ2	Geneva Switzerland

Mc/s	Metres	kW	Call	Station and Country
15.000	20.00	—	—	Alma Ata, Kazakh U.S.S.R.
15.040	19.95	5	—	Tangier <i>Tangier</i>
15.040	19.95	—	—	Moscow, Russia U.S.S.R.
15.044	19.94	1.5	V3USE	Port Louis <i>Mauritius</i>
15.053	19.92	10	—	Peking <i>China</i>
15.055	19.92	1	ETAA	Addis Ababa <i>Ethiopia</i>
15.070	19.91	—	GWC	Overseas Service* <i>G. Britain</i>
15.082	19.89	1	ZGA6	Georgetown <i>Br. Guiana</i>
15.090	19.88	50	CKLX	Sackville, N.B. <i>Canada</i>
15.090	19.88	7.5	CBLX	Vercheres, Quebec <i>Canada</i>
15.090	19.88	—	—	Moscow, Russia U.S.S.R.
15.095	19.87	50	HVJ	Vatican City <i>Vatican City</i>
15.097	19.87	7.5	HOXA	Panama City <i>Panama</i>
15.100	19.87	100	—	Allouis <i>France</i>
15.100	19.87	—	—	Rome <i>Italy</i>
15.100	19.87	14	EPB	Teheran <i>Persia</i>
15.105	19.86	—	KGEI	Belmont, Cal. U.S.A.
15.105	19.86	50	KRCA	Dixon, Cal. U.S.A.
15.110	19.85	—	GWG	Overseas Service* <i>G. Britain</i>
15.110	19.85	10	CSA35	Lisbon <i>Portugal</i>
15.110	19.85	—	—	Petropavlovsk, Russia U.S.S.R.
15.114	19.84	1.5	—	Athlone <i>Ireland</i>
15.116	19.84	10	HCJB	Quito <i>Ecuador</i>
15.120	19.84	100	—	Colombo <i>Ceylon</i>
15.120	19.84	50	IBU3	Milan <i>Italy</i>
15.120	19.84	50	CSA36	Lisbon <i>Portugal</i>
15.120	19.84	25	HED7	Schwarzenburg <i>Switzerland</i>
15.120	19.84	10	HVJ2	Vatican City <i>Vatican City</i>
15.125	19.83	7.5	—	Valetta (B.F.) <i>Malta</i>
15.130	19.83	100	KRHK	Honolulu <i>Hawaii</i>
15.130	19.83	20	VUD11	Delhi <i>India</i>
15.130	19.83	50	WRUL	Boston, Mass. U.S.A.
15.130	19.83	50	WABC	Brentwood, N.Y. U.S.A.
15.130	19.83	200	KCBR	Delano, Cal. U.S.A.
15.130	19.83	50	KRCA1	Dixon, Cal. U.S.A.
15.130	19.83	50	KRCA2	Dixon, Cal. U.S.A.
15.130	19.83	50	WABC5	Wayne, N.J. U.S.A.
15.140	19.81	—	GSF	Overseas Service* <i>G. Britain</i>



Mc/s	Metres	kW	Call	Station and Country	
15.145	19.81	20	ZYK2	Recife	Brazil
15.150	19.80	3	YDC	Djakarta, Java	Indonesia
15.150	19.80	50	APK	Karachi	Pakistan
15.150	19.80	10	OAX4R	Lima	Peru
15.150	19.80	50	WRCA6	Bound Brook, N.J.	U.S.A.
15.155	19.79	25	ZYB9	Sao Paulo	Brazil
15.155	19.79	30	OLR5C	Podebrady	Czechoslovakia
✓ 15.155	19.79	12	SBT	Motala	Sweden
15.160	19.79	100	VLB15	Shepparton, Vic.	Australia
15.160	19.79	1	VPD2	Suva	Fiji Islands
✓ 15.160	19.79	100	VUD7	Delhi	India
15.160	19.79	100	TAU	Ankara	Turkey
15.165	19.78	50	OQ2AA	Leopoldville	Belg. Congo
15.165	19.78	10	ZYN7	Fortaleza	Brazil
15.165	19.78	50	OZH	Copenhagen	Denmark
15.170	19.78	10	TGWA	Guatemala City	Guatemala
15.170	19.78	20	VUD10	Delhi	India
15.170	19.78	10	LKV	Fredrikstad	Norway
15.170	19.78	—	—	Moscow, Russia	U.S.S.R.
15.175	19.77	10	LLM	Oslo	Norway
15.180	19.76	—	GSO	Overseas Service*	G. Britain
15.180	19.76	—	—	Moscow, Russia	U.S.S.R.
15.182	19.76	100	—	Berlin, U.S.S.R. Zone	
					Germany
15.190	19.75	50	CKCX	Sackville, N.B.	Canada
15.190	19.75	7.5	CBFZ	Vercheres, Quebec	Canada
15.190	19.75	85	OIX4	Pori	Finland
15.190	19.75	100	VUD5	Delhi	India
15.190	19.75	12	CR7BC	Lourenco Marques	Mozambique
15.190	19.75	50	WRCA	Bound Brook, N.J.	U.S.A.
15.190	19.75	—	—	Moscow, Russia	U.S.S.R.
15.195	19.74	100	TAQ	Ankara	Turkey
15.200	19.74	10	VLG15	Lyndhurst, Vic.	Australia
15.200	19.74	100	VLA15	Shepparton, Vic.	Australia
15.200	19.74	100	VLB15	Shepparton, Vic.	Australia
15.200	19.74	50	VLC15	Shepparton, Vic.	Australia
• 15.200	19.74	75	WLWO1	Cincinnati, Ohio	U.S.A.
15.210	19.72	10	VLG15	Lyndhurst, Vic.	Australia

Mc/s	Metres	kW	Call	Station and Country
15.210	19.72	50	VLC15	Shepparton, Vic. <i>Australia</i>
15.210	19.72	—	GWU	Overseas Service* <i>G. Britain</i>
15.210	19.72	5	VUD3	Delhi <i>India</i>
15.210	19.72	50	—	Tangier <i>Tangier</i>
15.210	19.72	100	KGEI2	Belmont, Cal. <i>U.S.A.</i>
15.210	19.72	50	WBOS	Boston, Mass. <i>U.S.A.</i>
15.210	19.72	50	WRCA6	Bound Brook, N.J. <i>U.S.A.</i>
15.210	19.72	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.220	19.71	50	VLC15	Shepparton, Vic. <i>Australia</i>
15.220	19.71	50	CHTA	Sackville, N.B. <i>Canada</i>
15.220	19.71	40	PCJ	Huizen <i>Netherlands</i>
15.220	19.71	7.5	ZL10	Wellington <i>New Zealand</i>
15.225	19.70	7.5	JBD3	Osaka <i>Japan</i>
15.225	19.70	10	YUF	Belgrade <i>Yugoslavia</i>
15.230	19.70	5	LRS1	Buenos Aires <i>Argentina</i>
15.230	19.70	10	VLG15	Lyndhurst, Vic. <i>Australia</i>
15.230	19.70	10	VLH15	Lyndhurst, Vic. <i>Australia</i>
15.230	19.70	100	VLA15	Shepparton, Vic. <i>Australia</i>
15.230	19.70	30	OLR5A	Podebrady <i>Czechoslovakia</i>
15.230	19.70	—	GWD	Overseas Service* <i>G. Britain</i>
15.230	19.70	7.5	—	Valetta (B.F.) <i>Malta</i>
15.230	19.70	75	WLWO1	Cincinnati, Ohio <i>U.S.A.</i>
15.230	19.70	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.230	19.70	—	—	Komsomolsk, Siberia <i>U.S.S.R.</i>
15.235	19.69	10	BED3	Taipei <i>Formosa</i>
15.235	19.69	5	JBD4	Osaka <i>Japan</i>
15.240	19.69	10	VLG15	Lyndhurst, Vic. <i>Australia</i>
15.240	19.69	100	—	Allouis <i>France</i>
15.240	19.69	50	—	Tangier <i>Tangier</i>
15.240	19.69	200	WLWO5	Cincinnati, Ohio <i>U.S.A.</i>
15.240	19.69	200	KRCA3	Dixon, Cal. <i>U.S.A.</i>
15.240	19.69	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.250	19.67	100	KRHO	Honolulu <i>Hawaii</i>
15.250	19.67	50	—	Manila <i>Philippines</i>
15.250	19.67	50	—	Tangier <i>Tangier</i>
15.250	19.67	75	WLWO1	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	200	WLWO5	Cincinnati, Ohio <i>U.S.A.</i>
15.260	19.66	—	GSI	Overseas Service* <i>G. Britain</i>

Mc/s	Metres	kW	Call	Station and Country
15.265	19.65	10	CR7BG	Lourenco Marques <i>Mozambique</i>
15.267	19.65	10	WABC	Brentwood, N.Y. <i>U.S.A.</i>
15.270	19.65	50	APK3	Karachi <i>Pakistan</i>
✓ 15.270	19.65	50	<del>WABC</del>	Brentwood, N.Y. <i>U.S.A.</i> <span style="float: right;">WB 1</span>
15.270	19.65	50	KCBR	Delano, Cal. <i>U.S.A.</i>
15.270	19.65	50	WABC5	Wayne, N.J. <i>U.S.A.</i>
15.270	19.65	—	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
✓ 15.280	19.63	100	—	Munich, U.S. Zone <i>Germany</i>
15.280	19.63	7.5	ZL4	Wellington <i>New Zealand</i>
✓ 15.280	19.63	50	—	Tangier <i>Tangier</i> <span style="float: right;">WABC 4</span>
15.280	19.63	—	—	Moscow, Russia <i>U.S.S.R.</i>
✓ 15.290	19.62	6	LRU	Buenos Aires <i>Argentina</i>
15.290	19.62	20	VUD11	Delhi <i>India</i>
15.290	19.62	50	WRUL1	Boston, Mass. <i>U.S.A.</i>
15.290	19.62	100	KWID	San Francisco, Cal. <i>U.S.A.</i>
15.295	19.61	25	—	Realtort <i>France</i>
15.295	19.61	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.300	19.61	—	GWR	Overseas Service* <i>G. Britain</i>
15.300	19.61	7.5	—	Singapore <i>Malaya</i>
15.300	19.61	2	DZH8	Manila <i>Philippines</i>
15.300	19.61	2.5	CXA8	Montevideo <i>Uruguay</i>
✓ 15.305	19.60	25	HER6	Schwarzenburg <i>Switzerland</i>
15.309	19.60	—	—	Kiev, Ukraine <i>U.S.S.R.</i>
15.310	19.60	—	GSP	Overseas Service* <i>G. Britain</i>
15.310	19.60	100	—	Rome <i>Italy</i>
15.310	19.60	50	WRUL3	Boston, Mass. <i>U.S.A.</i>
15.310	19.60	100	KCBR1	Delano, Cal. <i>U.S.A.</i>
15.310	19.60	—	—	Novosibirsk, Russia <i>U.S.S.R.</i>
15.310	19.60	—	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
✓ 15.320	19.58	50	VLC15	Shepparton, Vic. <i>Australia</i>
15.320	19.58	100	VLA15	Shepparton, Vic. <i>Australia</i>
✓ 15.320	19.58	50	CKCS	Sackville, N.B. <i>Canada</i>
15.320	19.58	30	OLR5B	Podebrady <i>Czechoslovakia</i>
15.320	19.58	5	OZH2	Copenhagen <i>Denmark</i>
15.320	19.58	25	HEI7	Schwarzenburg <i>Switzerland</i>
15.320	19.58	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.330	19.57	5	—	Sofia <i>Bulgaria</i>

Mc/s	Metres	kW	Call	Station and Country	
15.330	19.57	100	KRHO	Honolulu	<i>Hawaii</i>
15.330	19.57	50	—	Manila	<i>Philippines</i>
15.330	19.57	50	KGEI	Belmont, Cal.	<i>U.S.A.</i>
15.330	19.57	100	WGEO1	Schenectady, N.Y.	<i>U.S.A.</i>
15.330	19.57	50	WGEO2	Schenectady, N.Y.	<i>U.S.A.</i>
15.330	19.57	200	WLWO6	Cincinnati, Ohio	<i>U.S.A.</i>
15.333	19.57	50	APK3	Karachi	<i>Pakistan</i>
15.340	19.56	100	—	Munich, U.S. Zone	<i>Germany</i>
15.340	19.56	12	FHE2	Dakar	<i>Senegal</i>
15.345	19.55	7.5	—	Athens	<i>Greece</i>
15.350	19.54	25	—	Realtort	<i>France</i>
15.350	19.54	7.5	VUD8	Delhi	<i>India</i>
15.350	19.54	5	—	Luxembourg	<i>Luxembourg</i>
15.350	19.54	50	WRUL1	Boston, Mass.	<i>U.S.A.</i>
15.350	19.54	50	WRUL2	Boston, Mass.	<i>U.S.A.</i>
15.350	19.54	75	WLWO5	Cincinnati, Ohio	<i>U.S.A.</i>
15.360	19.53	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.365	19.52	25	ZYC9	Rio de Janeiro	<i>Brazil</i>
15.370	19.52	—	—	Leningrad, Russia	<i>U.S.S.R.</i>
15.380	19.51	50	CSA37	Lisbon	<i>Portugal</i>
15.390	19.49	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.405	19.48	5	PZC	Paramaribo	<i>Dutch Guiana</i>
15.410	19.47	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.420	19.46	—	—	Rome	<i>Italy</i>
15.435	19.44	—	GWE	Overseas Service*	<i>G. Britain</i>
15.440	19.43	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.450	19.42	—	GRD	Overseas Service*	<i>G. Britain</i>
15.450	19.42	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.501	19.35	100	—	Budapest	<i>Hungary</i>
15.550	19.29	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.595	19.24	50	FZI	Brazzaville	<i>Fr. Eq. Africa</i>
15.623	19.19	40	—	Madrid	<i>Spain</i>
15.765	19.03	3	—	Tirana	<i>Albania</i>
15.910	18.86	1	HSJ4	Bangkok	<i>Siam</i>
15.915	18.85	1	CR6RL	Lobito	<i>Angola</i>
16.214	18.50	12	FZS	Saigon	<i>Fr. Indo-China</i>
17.445	17.20	25	HVJ	Vatican City	<i>Vatican City</i>
17.677	16.97	1	CR5SB	Sao Thome	<i>St. Thomas Is.</i>
17.700	16.95	—	GVP	Overseas Service*	<i>G. Britain</i>

Mc/s	Metres	kW	Call	Station and Country	
17.715	16.93	—	GRA	Overseas Service*	<i>G. Britain</i>
17.720	16.93	10	LRA5	Buenos Aires	<i>Argentina</i>
17.720	16.93	20	TAD	Ankara	<i>Turkey</i>
17.722	16.93	12	—	Saigon	<i>Fr. Indo-China</i>
17.730	16.92	7.5	—	Colombo	<i>Ceylon</i>
17.730	16.92	3	HJCY	Bogota	<i>Colombia</i>
17.730	16.92	—	GVQ	Overseas Service*	<i>G. Britain</i>
17.740	16.91	10	VUD	Delhi	<i>India</i>
17.745	16.91	50	OTC5	Leopoldville	<i>Belg. Congo</i>
17.750	16.90	5	—	Johannesburg	<i>S. Africa</i>
17.750	16.90	50	WRUL4	Boston, Mass.	<i>U.S.A.</i>
17.750	16.90	50	WRUL5	Boston, Mass.	<i>U.S.A.</i>
17.755	16.90	20	WRUL	Boston, Mass.	<i>U.S.A.</i>
17.755	16.90	25	HVJ	Vatican City	<i>Vatican City</i>
17.760	16.89	5	VUD3	Delhi	<i>India</i>
17.760	16.89	50	—	Manila	<i>Philippines</i>
17.760	16.89	100	KWID1	San Francisco, Cal.	<i>U.S.A.</i>
17.760	16.89	25	WGEO3	Schenectady, N.Y.	<i>U.S.A.</i>
17.765	16.88	25	—	Muret	<i>France</i>
17.770	16.88	7.5	—	Colombo	<i>Ceylon</i>
17.770	16.88	100	—	Rome	<i>Italy</i>
17.770	16.88	50	APK	Karachi	<i>Pakistan</i>
17.770	16.88	7.5	ZL5	Wellington	<i>New Zealand</i>
17.770	16.88	50	KCBR3	Delano, Cal.	<i>U.S.A.</i>
17.775	16.88	5	PHI	Lopik	<i>Netherlands</i>
17.777	16.87	3	PJC	Willemstad	<i>Curacao</i>
17.780	16.87	7.5	—	Athens	<i>Greece</i>
17.780	16.87	7.5	—	Manila	<i>Philippines</i>
17.780	16.87	50	WBOS	Boston, Mass.	<i>U.S.A.</i>
17.780	16.87	50	WRCA5	Bound Brook, N.J.	<i>U.S.A.</i>
17.780	16.87	50	KRCA	Dixon, Cal.	<i>U.S.A.</i>
17.784	16.87	25	HER7	Schwarzenburg	<i>Switzerland</i>
17.785	16.87	25	—	Muret	<i>France</i>
17.790	16.86	1	CR8AA	Nova Goa	<i>Goa</i>
17.790	16.86	—	GSG	Overseas Service*	<i>G. Britain</i>
17.797	16.85	15	OIX5	Helsinki	<i>Finland</i>
17.800	16.85	100	VLA17	Shepparton, Vic.	<i>Australia</i>
17.800	16.85	100	VLB17	Shepparton, Vic.	<i>Australia</i>
17.800	16.85	100	KRHO	Honolulu	<i>Hawaii</i>

Mc/s	Metres	kW	Call	Station and Country	
17.800	16.85	100	VUD7	Delhi	India
17.800	16.85	60	—	Rome	Italy
17.800	16.85	50	—	Manila	Philippines
17.800	16.85	50	WRUL3	Boston, Mass.	U.S.A.
17.800	16.85	50	WLWO2	Cincinnati, Ohio	U.S.A.
17.800	16.85	200	WLWO3	Cincinnati, Ohio	U.S.A.
17.800	16.85	50	KRCA	Dixon, Cal.	U.S.A.
17.810	16.84	—	GSV	Overseas Service*	G. Britain
17.820	16.84	50	CKNC	Sackville, N.B.	Canada
17.820	16.84	7.5	—	Colombo	Ceylon
17.825	16.83	10	LLN	Fredrikstad	Norway
17.830	16.83	30	OLR6A	Podebrady	Czechoslovakia
17.830	16.83	20	VUD10	Delhi	India
17.830	16.83	50	<del>WABC</del>	Brentwood, N.Y.	U.S.A.
17.830	16.83	50	KCBR	Delano, Cal.	U.S.A.
17.830	16.83	200	KRCA3	Dixon, Cal.	U.S.A.
17.830	16.83	50	WABC6	Wayne, N.J.	U.S.A.
17.830	16.83	—	—	Moscow, Russia	U.S.S.R.
17.835	16.82	6	—	Kalundborg	Denmark
17.835	16.82	40	JBC5	Tokio	Japan
17.836	16.82	—	VUD	Delhi	India
17.838	16.82	50	APK3	Karachi	Pakistan
17.840	16.82	100	VLA17	Shepparton, Vic.	Australia
17.840	16.82	50	VLC17	Shepparton, Vic.	Australia
17.840	16.82	7	FZI	Brazzaville	Fr. Eq. Africa
17.840	16.82	1.5	—	Athlone	Ireland
17.840	16.82	100	TAV	Ankara	Turkey
17.840	16.82	—	—	Moscow, Russia	U.S.S.R.
17.840	16.82	25	HVJ	Vatican City	Vatican City
17.845	16.81	5	—	Ruiselede	Belgium
17.850	16.81	50	PRL9	Rio de Janeiro	Brazil
17.850	16.81	100	—	Allouis	France
17.850	16.81	—	—	Moscow, Russia	U.S.S.R.
17.895	16.76	10	HCJB	Quito	Ecuador
18.025	16.64	—	GRQ	Overseas Service*	G. Britain
18.065	16.60	15	PCV	Amsterdam	Netherlands
18.080	16.59	—	GVO	Overseas Service*	G. Britain
18.130	16.55	—	GRP	Overseas Service*	G. Britain
18.450	16.26	20	HBF	Geneva	Switzerland

Mc/s	Metres	kW	Call	Station and Country
20.135	14.90	10	SUP	Cairo <i>Egypt</i>
20.830	14.40	15	PFF	Amsterdam <i>Netherlands</i>
21.010	14.27	1	FZI	Brazzaville <i>Fr. Eq. Africa</i>
21.450	13.99	5	ORY7	Ruiselede <i>Belgium</i>
21.450	13.99	30	OLR7A	Podebrady <i>Czechoslovakia</i>
21.460	13.98	50	WRUL	Boston, Mass. <i>U.S.A.</i>
21.460	13.98	50	KRCA1	Dixon, Cal. <i>U.S.A.</i>
21.470	13.97	—	GSH	Overseas Service* <i>G. Britain</i>
21.480	13.97	15	PHI	Lopik <i>Netherlands</i>
21.490	13.96	100	—	Allouis <i>France</i>
21.490	13.96	50	KGEI	Belmont, Cal. <i>U.S.A.</i>
21.500	13.95	50	WGEO	Schenectady, N.Y. <i>U.S.A.</i>
21.500	13.95	50	WABC6	Wayne, N.J. <i>U.S.A.</i>
21.510	13.95	7.5	VUD8	Delhi <i>India</i>
21.510	13.95	100	—	Rome <i>Italy</i>
21.520	13.94	100	HER8	Schwarzenburg <i>Switzerland</i>
21.520	13.94	50	WABC	Brentwood, N.Y. <i>U.S.A.</i>
21.520	13.94	200	WLWO3	Cincinnati, Ohio <i>U.S.A.</i>
21.520	13.94	50	WABC5	Wayne, N.J. <i>U.S.A.</i>
21.530	13.93	—	GSJ	Overseas Service* <i>G. Britain</i>
21.540	13.93	100	VLB21	Shepparton, Vic. <i>Australia</i>
21.540	13.93	50	WBOS	Boston, Mass. <i>U.S.A.</i>
21.550	13.92	10	PRL	Rio de Janeiro <i>Brazil</i>
21.550	13.92	15	OIX6	Helsinki <i>Finland</i>
21.550	13.92	—	GST	Overseas Service* <i>G. Britain</i>
21.560	13.91	—	—	Rome <i>Italy</i>
21.565	13.91	30	OLR7B	Podebrady <i>Czechoslovakia</i>
21.570	13.91	50	—	Manila <i>Philippines</i>
21.570	13.91	50	WABC1	Brentwood, N.Y. <i>U.S.A.</i>
21.570	13.91	50	WABC6	Wayne, N.J. <i>U.S.A.</i>
21.590	13.89	100	KGEI2	Belmont, Cal. <i>U.S.A.</i>
21.590	13.89	50	WGEO2	Schenectady, N.Y. <i>U.S.A.</i>
21.600	13.89	100	VLA21	Shepparton, Vic. <i>Australia</i>
21.600	13.89	100	VLB21	Shepparton, Vic. <i>Australia</i>
21.600	13.89	50	CKRP	Sackville, N.B. <i>Canada</i>
21.605	13.89	25	HEI9	Schwarzenburg <i>Switzerland</i>
21.610	13.88	50	WRCA1	Bound Brook, N.J. <i>U.S.A.</i>
21.610	13.88	100	KWID	San Francisco, Cal. <i>U.S.A.</i>
21.620	13.87	7.5	—	Colombo <i>Ceylon</i>

Mc/s	Metres	kW	Call	Station and Country	
21.630	13.87	50	WRCA	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WLWO	Cincinnati, Ohio	U.S.A.
21.630	13.87	50	KRCA2	Dixon, Cal.	U.S.A.
21.640	13.86	30	OLR7C	Podebrady	Czechoslovakia
21.640	13.86	—	GRZ	Overseas Service*	G. Britain
21.650	13.85	200	WLWO3	Cincinnati, Ohio	U.S.A.
21.650	13.85	200	WLWO7	Cincinnati, Ohio	U.S.A.
21.660	13.85	10	VUD	Delhi	India
21.670	13.84	10	LLP	Oslo	Norway
21.675	13.84	—	GVR	Overseas Service*	G. Britain
21.680	13.84	50	VLC2I	Shepparton, Vic.	Australia
21.680	13.84	50	OTC6	Leopoldville	Belg. Congo
21.710	13.82	50	CHLA	Sackville, N.B.	Canada
21.710	13.82	—	GVS	Overseas Service*	G. Britain
21.715	13.82	—	—	St. George	Bermuda
21.720	13.81	7.5	—	Singapore	Malaya
21.720	13.81	12	—	Motala	Sweden
21.730	13.81	10	LLQ	Fredrikstad	Norway
21.730	13.81	50	WRCA3	Bound Brook, N.J.	U.S.A.
21.740	13.80	100	—	Allouis	France
21.740	13.80	50	KCBR2	Delano, Cal.	U.S.A.
21.740	13.80	25	HVJ	Vatican City	Vatican City
21.750	13.79	—	GVT	Overseas Service*	G. Britain
22.520	13.22	—	—	Moscow, Russia	U.S.S.R.
25.600	11.72	20	WRUL	Boston, Mass.	U.S.A.
25.610	11.71	15	PFP	Amsterdam	Netherlands
25.640	11.70	100	HER9	Schwarzenburg	Switzerland
25.750	11.65	—	GSQ	Overseas Service*	G. Britain
25.800	11.63	7.5	ZL6	Wellington	New Zealand
26.100	11.49	—	GSK	Overseas Service*	G. Britain
26.400	11.36	—	GSR	Overseas Service*	G. Britain
26.550	11.30	—	GSS	Overseas Service*	G. Britain
27.000	11.11	2.5	CXA11	Montevideo	Uruguay
29.500	10.17	20	CXA22	Montevideo	Uruguay



# Geographical List of Short-wave Stations of the World

	Mc/s		Mc/s		Mc/s
<b>AFRICA,</b>		Loando	7.299	<b>AUSTRALIA</b>	
<b>FRENCH EQ.</b>		"	9.470	Brisbane,	
Brazzaville	6.022	"	9.754	Qld.	7.215
"	7.002	"	11.735	" "	7.240
"	9.440	Lobito	7.175	" "	9.660
"	9.953	"	11.035	Lyndhurst,	
"	11.972	"	15.915	Vic.	6.150
"	15.595	Nova		" "	9.540
"	17.840	Lisboa	7.152	" "	9.580
"	21.010	" "	9.250	" "	9.680
<b>AFRICA,</b>		" "	9.573	" "	11.710
<b>FRENCH W.</b>		" "	11.925	" "	11.760
(See Senegal)		Silvo Porto	7.585	" "	11.840
<b>AFRICA,</b>		<b>ARABIA</b>		" "	11.880
<b>PORT. E.</b>		Aden	6.760	" "	11.900
(See Mozambique)		<b>ARGENTINA</b>		" "	15.200
<b>AFRICA,</b>		Buenos		" "	15.210
<b>PORT. W.</b>		Aires	3.430	" "	15.230
(See Angola)		" "	5.986	" "	15.240
<b>ALBANIA</b>		" "	6.065	Perth, W.A.	4.897
Korce	7.430	" "	6.085	" "	9.610
Scutari	8.215	" "	6.120	" "	11.830
Shkodra	8.264	" "	9.320	Shepparton,	
Tirana	6.081	" "	9.450	Vic.	7.240
"	7.855	" "	9.545	" "	7.280
"	9.960	" "	9.640	" "	9.540
"	15.765	" "	9.660	" "	9.580
<b>ALGERIA</b>		" "	9.690	" "	9.615
Algiers	9.570	" "	10.350	" "	9.650
"	11.835	" "	11.880	" "	9.680
"	12.116	" "	15.230	" "	11.740
<b>ANDORRA</b>		" "	15.290	" "	11.760
Andorra	5.990	" "	17.720	" "	11.770
"	9.340	" "	6.180	" "	11.810
"	14.400	Mendoza	6.145	" "	11.840
<b>ANGOLA</b>		Rosario	6.145	" "	11.850
Loando	5.093	Tucuman	11.840	" "	11.870

	Mc/s		Mc/s		Mc/s
<b>Australia—cont.</b>		<b>BRAZIL</b>		<b>CAMEROONS</b>	
Shepparton,		Belem	4.865	Duala	7.950
Vic.	11.880	Belo-		"	9.149
"    "	15.160	Horizonte	5.995	"	10.750
"    "	15.200	Fortaleza	6.105		
"    "	15.210	"	15.165	<b>CANADA</b>	
"    "	15.220	Manaos	4.806	Edmonton,	
"    "	15.230	"	4.895	Alberta	8.265
"    "	15.320	Marapicu	7.934	"    "	9.540
"    "	17.800	"	9.500	Halifax, N.S.	6.130
"    "	17.840	"	9.600	Montreal,	
"    "	21.540	"	10.220	Quebec	6.005
"    "	21.600	"	11.850	Sackville,	
"    "	21.680	"	12.080	N.B.	6.060
Sydney,		Recife	6.015	"    "	6.090
N.S.W.	6.090	"	6.085	"    "	6.160
"    "	9.500	"	9.565	"    "	9.610
<b>AUSTRIA</b>		"	15.145	"    "	9.630
(U.S. Zone)		Rio de		"    "	9.640
Linz	9.570	Janeiro	6.147	"    "	11.705
<b>AZORES</b>		"	9.290	"    "	11.720
Ponta		"	9.610	"    "	11.760
Delgada	4.845	"	9.720	"    "	11.900
"    "	7.015	"	9.770	"    "	15.090
"    "	11.090	"	11.720	"    "	15.190
<b>BELGIUM</b>		"	15.365	"    "	15.220
Ruisselede	9.665	"	17.850	"    "	15.320
"    "	11.720	"	21.550	"    "	17.820
"    "	11.850	Sao Paulo	6.055	"    "	21.600
"    "	11.893	"	6.095	"    "	21.710
"    "	17.845	"	9.505	Sydney,	
"    "	21.450	"	11.765	N.S.	6.010
<b>BERMUDA</b>		"	15.155	Toronto,	
St. George	21.715	<b>BULGARIA</b>		Ontario	6.070
<b>BOLIVIA</b>		Sofia	7.670	Vercheres,	
La Paz	5.855	"	15.330	Quebec	6.090
"    "	6.110	<b>BURMA</b>		"    "	9.520
"    "	6.120	Rangoon	6.035	"    "	9.610
"    "	9.286	"	9.538	"    "	9.630
"    "	9.490	"	11.840	"    "	11.705
				"    "	11.720

	Mc/s		Mc/s		Mc/s
<b>Canada—cont.</b>		Santiago	12.003	Cali	4.825
Vercheres,		Valparaiso	6.150	"	6.055
Quebec	11.760	"	9.730	Cartagena	4.930
" "	15.090	"	11.900	"	4.970
" "	15.190	<b>CHINA</b>		"	9.670
Winnipeg,		Chungking	6.154	Manizales	6.225
Manitoba	6.150	Hankow	6.645	Medellin	4.885
" "	11.720	Hanton	6.090	"	6.145
<b>CANARY IS.</b>		Harbin	7.098	Pereira	4.865
Teneriffe	7.517	Kweiyang	6.065	"	6.107
<b>CAPE VERDE</b>		Lanchow	7.327	<b>CONGO,</b>	
<b>IS.</b>		Nanking	9.730	<b>BELGIAN</b>	
Praia	5.898	Peking	6.100	Leopoldville	6.140
<b>CEYLON</b>		"	10.262	"	6.295
Colombo	3.395	"	11.690	"	9.400
"	4.897	"	15.053	"	9.645
"	6.075	Shanghai	9.730	"	9.768
"	9.520	Shensi	7.500	"	11.645
"	9.825	"	9.052	"	11.720
"	11.770	<b>COLOMBIA</b>		"	15.165
"	11.975	Armenia	4.875	"	17.745
"	15.120	Barranquilla	4.785	"	21.680
"	17.730	"	4.901	<b>COSTA RICA</b>	
"	17.770	Bogota	4.835	San Jose	5.871
"	17.820	"	4.856	"	6.150
"	21.620	"	4.895	"	6.700
<b>CHILE</b>		"	4.948	"	9.619
Antofagasta	4.820	"	4.959	San Pedro	6.165
"	6.010	"	6.000	<b>CUBA</b>	
"	6.040	"	6.018	Camaguey	8.665
Punta		"	6.160	Havana	6.006
Arenas	9.197	"	6.203	"	6.038
Santiago	6.152	"	9.520	"	6.130
"	6.220	"	9.630	"	6.317
"	6.250	"	9.690	"	6.450
"	9.593	"	11.682	"	8.825
"	9.700	"	17.730	"	9.025
"	11.743	Bucara-		"	9.235
"	11.810	manga	4.777	"	9.270
"	11.850	"	4.848	"	9.363

	Mc/s		Mc/s		Mc/s
<b>Cuba—cont.</b>					
Havana	9.435	Podebrady	21.640	Suva	11.895
"	9.550	<b>DENMARK</b>		"	15.160
"	9.640	Copenhagen	7.260	<b>FINLAND</b>	
"	9.833	"	9.520	Helsinki	6.120
"	11.740	"	15.165	"	17.797
"	11.800	"	15.320	"	21.550
Santiago	8.955	Kalund-		Lahti	11.780
<b>CURACAO</b>		borg	11.805	Pori	9.555
Willemstad	5.010	"	17.835	"	15.190
"	7.250	<b>DOMINICAN</b>		<b>FORMOSA</b>	
"	12.015	<b>REPUBLIC</b>		Taipei	6.040
"	17.777	Ciudad		"	7.135
<b>CYPRUS</b>		Trujillo	6.000	"	8.990
Limassol	6.120	" "	6.043	"	10.090
"	6.135	" "	6.115	"	11.735
"	6.170	Monsenor		"	11.800
"	6.790	Nouel	5.970	"	15.235
"	9.650	" "	9.735	<b>FRANCE</b>	
"	11.716	Santiago		Allouis	6.089
<b>CZECHO-</b>		Caballeros	9.680	"	6.175
<b>SLOVAKIA</b>		<b>ECUADOR</b>		"	6.200
Podebrady	6.010	Guayaquil	4.650	"	7.280
"	6.030	"	6.063	"	9.520
"	6.095	Manta	6.870	"	9.540
"	6.115	Quito	5.988	"	9.550
"	6.170	"	9.957	"	9.650
"	9.504	"	12.462	"	9.680
"	9.550	"	15.116	"	11.700
"	9.670	Riobamba	17.895	"	11.710
"	11.760		4.960	"	11.730
"	11.840	<b>EGYPT</b>		"	11.780
"	11.875	Cairo	7.860	"	15.100
"	11.900	"	10.057	"	15.240
"	15.155	"	20.135	"	17.850
"	15.230	<b>ETHIOPIA</b>		"	21.490
"	15.320	Addis		"	21.740
"	17.830	Ababa	9.764	Les Essarts	9.560
"	21.450	" "	15.055	Muret	11.845
"	21.565	<b>FIJI ISLANDS</b>		"	11.885
		Suva	9.535	"	17.765

	Mc/s		Mc/s		Mc/s
France—cont.		Nova Goa	17.790	Overseas	
Muret	17.785	<b>GOLD COAST</b>		Service	9.600
Realtort	7.240	Accra	4.927	" "	9.625
"	9.620	"	7.295	" "	9.640
"	15.295	"	9.645	" "	9.660
"	15.350	<b>GREAT BRITAIN</b>		" "	9.675
<b>GAMBIA</b>		Overseas		" "	9.690
Bathurst	9.530	Service*	2.880	" "	9.700
<b>GERMANY</b>		" "	6.010	" "	9.825
(British Zone)		" "	6.035	" "	9.915
Hamburg	7.290	" "	6.050	" "	11.680
(French Zone)		" "	6.060	" "	11.700
Baden Baden	6.320	" "	6.070	" "	11.730
(U.S. Zone)		" "	6.090	" "	11.750
Frankfurt	6.190	" "	6.110	" "	11.770
Kassel	6.190	" "	6.125	" "	11.790
Munich	6.020	" "	6.150	" "	11.800
"	6.080	" "	6.165	" "	11.820
"	6.140	" "	6.180	" "	11.840
"	6.161	" "	6.195	" "	11.860
"	6.170	" "	7.075	" "	11.880
"	7.240	" "	7.120	" "	11.890
"	7.250	" "	7.135	" "	11.930
"	7.272	" "	7.150	" "	11.955
"	9.480	" "	7.185	" "	12.040
"	9.540	" "	7.200	" "	12.095
"	9.780	" "	7.210	" "	15.070
"	11.870	" "	7.230	" "	15.110
"	15.280	" "	7.250	" "	15.140
"	15.340	" "	7.260	" "	15.180
Stuttgart	6.030	" "	7.280	" "	15.210
(U.S.S.R. Zone)		" "	7.325	" "	15.230
Berlin	6.115	" "	9.410	" "	15.260
"	7.150	" "	9.510	" "	15.300
"	15.182	" "	9.525	" "	15.310
Leipzig	9.727	" "	9.550	" "	15.435
<b>GOA</b>		" "	9.570	" "	15.450
Nova Goa	9.608	" "	9.580	" "	17.700

\*B.B.C. short-wave transmitters are located at Daventry, Northants; Skelton, Cumberland; Woofferton, Shropshire; and Rampisham, Dorset. Frequencies, calls and power (50-100kW) are interchangeable.

	Mc/s		Mc/s		Mc/s
<b>G. Britain—cont.</b>		<b>Guatemala</b>		<b>Budapest</b>	<b>15.501</b>
<b>Overseas</b>		City	15.170	<b>ICELAND</b>	
Service	17.715	Quezal-		Reykjavik	5.060
" "	17.730	tenango	6.400	"	9.060
" "	17.790	<b>GUIANA, BRIT.</b>		"	12.174
" "	17.810	Georgetown	5.980		
" "	18.025	"	15.082	<b>INDIA</b>	
" "	18.080	<b>GUIANA,</b>		Akashvani	6.065
" "	18.130	<b>DUTCH</b>		Bombay	4.840
" "	21.470	Paramaribo	15.405	"	6.150
" "	21.530	<b>GUINEA,</b>		"	7.240
" "	21.550	<b>PORTUGUESE</b>		"	9.550
" "	21.640	Bissao	5.839	Calcutta	3.305
" "	21.675	<b>HAITI</b>		"	4.880
" "	21.710	Port au		"	6.010
" "	21.750	Prince	6.165	"	7.210
" "	25.750	" "	9.660	"	9.530
" "	26.100	" "	9.837	Delhi	3.365
" "	26.400	<b>HAWAII</b>		"	3.495
" "	26.550	Honolulu	6.160	"	4.860
<b>GREECE</b>		"	9.650	"	4.940
Athens	6.175	"	11.790	"	4.960
"	7.298	"	15.130	"	6.010
"	9.605	"	15.250	"	6.110
"	15.345	"	15.330	"	6.190
"	17.780	"	17.800	"	7.120
<b>GREENLAND</b>		"		"	7.155
Godthaab	5.943	<b>HONDURAS</b>		"	7.225
"	6.677	<b>REPUBLIC</b>		"	7.240
"	8.404	San Pedro	6.123	"	7.260
<b>GUATEMALA</b>		" "	6.350	"	7.275
Guatemala		Tegucigalpa	5.875	"	7.290
City	4.170	"	5.920	"	9.565
" "	6.100	"	6.025	"	9.575
" "	6.214	<b>HONG KONG</b>		"	9.590
" "	6.332	Victoria	9.520	"	9.620
" "	6.440	<b>HUNGARY</b>		"	9.630
" "	6.620	Budapest	6.247	"	9.660
" "	8.125	"	7.222	"	9.670
" "	9.764	"	9.832	"	9.680
		"	11.910	"	9.720

	Mc/s		Mc/s		Mc/s
<b>India—cont.</b>		<b>INDONESIA</b>		<b>Tel Aviv</b>	<b>9.000</b>
Delhi	11.710	Bandoeng,		<b>ITALY</b>	
"	11.760	Java	3.390	Milan	6.085
"	11.790	" "	4.945	"	9.630
"	11.810	" "	8.000	"	11.810
"	11.830	" "	10.060	"	15.120
"	11.850	Den Pasar,		Rome	3.930
"	11.870	Bali	4.840	"	3.970
"	11.890	Djakarta,		"	5.980
"	15.130	Java	7.270	"	6.010
"	15.160	" "	10.365	"	6.240
"	15.170	" "	11.000	"	6.260
"	15.190	" "	11.770	"	6.290
"	15.210	" "	11.785	"	7.110
"	15.290	" "	15.150	"	7.250
"	15.350	Djokjakarta,		"	7.942
"	17.740	Java	5.060	"	9.570
"	17.760	" "	7.098	"	9.630
"	17.800	Macassar,		"	9.670
"	17.830	Celebes	9.550	"	11.812
"	17.836	Medan,		"	11.905
"	21.510	Sumatra	4.930	"	15.100
"	21.660	Menado,		"	15.310
Madras	4.920	Celebes	9.805	"	15.420
"	6.085	Soerakarta,		"	17.770
"	7.260	Java	3.330	"	17.800
"	9.590	<b>IRAQ</b>		"	21.510
Srinagar	4.860	Baghdad	6.195	"	21.560
"	7.270	"	7.062	<b>JAMAICA</b>	
		"	7.092	Kingston	3.360
		"	9.940	"	4.950
<b>INDO-CHINA,</b>		<b>IRELAND</b>		<b>JAPAN</b>	
<b>FRENCH</b>		Athlone	6.190	Kure	6.104
Saigon	6.116	"	9.595	Osaka	4.940
"	9.430	"	11.740	"	9.505
"	9.525	"	15.114	"	9.560
"	11.645	"	17.840	"	9.695
"	11.783	"		"	15.225
"	11.830	<b>ISRAEL</b>		"	15.235
"	16.214	Tel Aviv	5.895	"	4.860
"	17.722	" "	6.830	Tokio	

	Mc/s		Mc/s		Mc/s
<b>Japan—cont.</b>		<b>MALTA</b>		<b>MOZAMBIQUE</b>	
Tokio	4.910	Valetta	3.305	Lourenco	
"	6.015	"	4.965	Marques	3.528
"	7.258	"	6.015	" "	4.825
"	7.285	"	6.140	" "	4.930
"	9.605	"	7.220	" "	6.135
"	9.655	"	7.270	" "	9.590
"	11.800	"	11.785	" "	9.765
"	17.835	"	11.895	" "	9.803
<b>JORDAN</b>		"	15.125	" "	11.760
Jerusalem	7.065	"	15.230	" "	15.190
<b>KENYA</b>		<b>MARTINIQUE</b>		" "	15.265
Nairobi	4.854	Fort de		<b>NETHERLANDS</b>	
"	6.060	France	6.165	Amsterdam	18.065
"	10.730	" "	9.695	"	20.830
<b>KOREA</b>		<b>MAURITIUS</b>		"	25.610
Seoul	7.935	Port Louis	15.044	Huizen	9.590
<b>LEBANON</b>		<b>MEXICO</b>		"	15.220
Beirut	8.037	Mexico City	6.010	Lopik	6.025
<b>LUXEMBOURG</b>		" "	6.155	"	11.730
Luxembourg	6.090	" "	9.500	"	17.775
"	9.528	" "	9.554	"	21.480
"	15.350	" "	9.615	<b>NEW GUINEA,</b>	
<b>MADAGASCAR</b>		" "	9.625	<b>BRITISH</b>	
Tananarive	3.900	" "	9.680	Port	
"	6.170	" "	11.782	Moresby	7.280
"	9.515	" "	11.880	" "	9.520
"	12.126	<b>MONACO</b>		<b>NEW ZEALAND</b>	
<b>MALAYA</b>		Monte		Wellington	6.080
Kuala		Carlo	6.035	"	9.540
Lumpur	6.025	" "	9.785	"	9.620
Singapore	4.780	<b>MOROCCO,</b>		"	11.780
"	4.825	<b>FRENCH</b>		"	11.810
"	6.135	Rabat	6.006	"	15.220
"	6.175	"	7.214	"	15.280
"	7.200	"	11.940	"	17.770
"	9.690	<b>MOROCCO,</b>		"	25.800
"	11.880	<b>SPANISH</b>			
"	15.300	Tetuan	6.050		
"	21.720				



	Mc/s		Mc/s		Mc/s
NICARAGUA		Karachi	17,770	Lima	9,336
Leon	7.644	"	17,838	"	9,395
Managua	6.760	Lahore	3,350	"	9,562
NIGERIA		"	4,815	"	15,150
Lagos	7.257	"	5,982	PHILIPPINES	
"	9.653	"	6,075	Manila	3,320
NORWAY		"	11,750	"	5,998
Fredrikstad	6.185	PANAMA		"	6,030
"	9.610	Colon	9,505	"	6,110
"	9.645	Panama		"	6,120
"	11.735	City	6,060	"	6,167
"	11.830	" "	9,607	"	9,501
"	11.852	" "	9,660	"	9,530
"	15.170	" "	11,695	"	9,640
"	17.825	" "	11,810	"	9,730
"	21.730	" "	15,097	"	11,790
Oslo	6.195	PAPUA		"	11,890
"	7.240	(See New Guinea)		"	15,250
"	15.175	PARAGUAY		"	15,300
"	21.670	Ascuncion	6,275	"	15,330
Tromso	6.127	"	9,735	"	17,760
"	7.210	"	11,852	"	17,780
"	9.535	Encarna-		"	17,800
"	9.550	cion	11,950	"	21,570
PAKISTAN		PERSIA		Mindanao	3,950
Dacca	7.095	Tabriz	6,090	Rizal	9,550
"	7.140	Teheran	3,930	POLAND	
"	11.875	"	4,780	Warsaw	6,115
Karachi	3.450	"	6,155	"	6,220
"	5.000	"	8,110	"	7,205
"	7.260	"	9,660	"	9,225
"	9.645	"	15,100	"	9,526
"	9.755	PERU		"	9,565
"	11.570	Arequipa	6,338	"	11,815
"	11.770	Lima	5,898	PORTUGAL	
"	11.810	"	5,955	Lisbon	6,154
"	11.845	"	6,010	"	6,360
"	15.150	"	6,090	"	9,670
"	15.270	"	6,305	"	9,727
"	15.333	"	6,315	"	9,747

	Mc/s		Mc/s		Mc/s
<b>Portugal—cont.</b>		Jidda	5.976	Valencia	7.035
Lisbon	11.030	„	9.645	Valladolid	7.006
„	11.040	„	11.750	<b>SUDAN</b>	
„	11.840	„	11.850	Omdurman	9.747
„	11.925	„	11.950	<b>SURINAM</b>	
„	12.750	<b>SENEGAL</b>		(See Guiana, Dutch)	
„	12.865	Dakar	11.895	<b>SWEDEN</b>	
„	15.110	„	15.340	Motala	6.065
„	15.120	<b>SIAM</b>		„	9.535
„	15.380	Bangkok	6.240	„	10.780
<b>RHODESIA, N.</b>		„	11.910	„	11.705
Lusaka	3.914	„	15.910	„	15.155
„	4.879	<b>SOMALILAND,</b>		„	21.720
„	7.285	<b>BRIT.</b>		<b>SWITZERLAND</b>	
„	9.715	Hargeisa	7.125	Geneva	6.675
<b>RHODESIA, S.</b>		<b>SOUTH AFRICA</b>		„	9.350
Bulawayo	3.800	Cape Town	5.883	„	14.462
Salisbury	3.320	„	7.255	„	14.538
„	6.017	„	9.606	„	18.450
„	9.491	Johannes-		„	
<b>RUMANIA</b>		burg	3.450	Schwarzen-	
Bucharest	6.210	„	4.800	burg	6.165
„	9.255	„	4.895	„	6.345
„	11.900	„	4.945	„	7.210
<b>ST. THOMAS IS.</b>		„	7.229	„	7.360
Sao Thome	4.807	„	7.275	„	9.535
„	9.615	„	7.295	„	9.655
„	11.785	„	9.523	„	9.665
„	17.677	„	9.600	„	10.395
<b>SALVADOR</b>		„	9.870	„	11.715
San Miguel	6.170	„	11.936	„	11.775
S. Salvador	6.155	„	17.750	„	11.815
„	6.265	<b>SPAIN</b>		„	11.865
„	6.275	Alicante	7.940	„	11.960
„	6.300	Madrid	7.180	„	11.965
„	7.315	„	7.380	„	15.120
„	9.530	„	9.368	„	15.305
Santa Ana	5.980	„	9.832	„	15.320
<b>SAUDI ARABIA</b>		„	15.623	„	17.784
Jidda	3.960	Malaga	7.020	„	21.520

	Mc/s		Mc/s		Mc/s
Switzerland—		Ankara	11.880	Boston,	
cont.		„	15.160	Mass.	25.600
Schwarzen-		„	15.195	Bound Brook,	
burg	21.605	„	17.720	N.J.	6.020
„	25.640	„	17.840	„	6.100
SYRIA		U.S.A.		„	6.190
Damascus	6.004	Belmont,		„	9.550
„	7.145	Cal.	6.075	„	9.615
„	9.526	„	6.190	„	9.670
„	11.750	„	7.250	„	11.770
„	12.000	„	9.530	„	11.890
TAHITI		„	9.550	„	11.893
Papeete	9.052	„	9.670	„	15.150
„	12.080	„	11.730	„	15.190
TANGIER		„	11.847	„	15.210
Tangier	6.040	„	15.105	„	17.780
„	6.110	„	15.210	„	21.610
„	7.126	„	15.330	„	21.630
„	7.200	„	21.490	„	21.730
„	7.214	„	21.590	Brentwood,	
„	7.270	Boston,		N.Y.	6.060
„	7.399	Mass.	6.040	„	6.120
„	7.980	„	6.140	„	6.170
„	9.540	„	9.570	„	9.650
„	9.560	„	9.700	„	11.830
„	9.680	„	11.710	„	15.130
„	11.790	„	11.725	„	15.267
„	11.870	„	11.790	„	15.270
„	15.040	„	11.870	„	17.830
„	15.210	„	15.130	„	21.520
„	15.240	„	15.210	„	21.570
„	15.250	„	15.290	Cincinnati,	
„	15.280	„	15.310	Ohio	6.040
TURKEY		„	15.350	„	6.080
Ankara	6.000	„	17.750	„	9.590
„	7.240	„	17.755	„	9.700
„	7.285	„	17.780	„	11.710
„	9.465	„	17.800	„	15.200
„	9.515	„	21.460	„	15.230
„	11.760	„	21.540	„	15.240

U.S.A.—cont.		Mc/s	San Francisco,		Mc/s	Erivan,		Mc/s
Cincinnati,			Cal.		15.290	Armenia		7.150
Ohio		15.250	"	"	17.760	Khabarovsk,		4.275
"	"	15.330	"	"	21.610	Russia		5.940
"	"	15.350	Schenectady,			"	"	6.018
"	"	17.800	N.Y.		6.190	Khabarovsk,		6.070
"	"	21.630	"	"	7.000	Russia		8.820
"	"	21.650	"	"	9.530	"	"	9.378
Delano,			"	"	9.550	"	"	
Cal.		6.040	"	"	11.830	Kharkov,		7.330
"	"	6.120	"	"	11.847	Ukraine		
"	"	9.600	"	"	15.330	Kiev,		6.020
"	"	9.700	"	"	17.760	Ukraine		9.670
"	"	11.810	"	"	21.500	"	"	9.670
"	"	15.130	"	"	21.590	"	"	9.797
"	"	15.270	Wayne, N.J.		6.120	"	"	15.309
"	"	15.310	"	"	6.170	Komsomolsk,		
"	"	17.770	"	"	9.670	Siberia		6.030
"	"	17.830	"	"	9.700	"	"	6.115
21.740 → Dixon, Cal.		6.060	"	"	<del>11.810</del>	"	"	9.565
"	"	6.185	"	"	11.830	"	"	9.725
"	"	9.515	"	"	15.130	"	"	11.750
"	"	9.600	"	"	15.270	"	"	15.230
"	"	9.650	"	"	17.830	Leningrad,		
"	"	11.790	"	"	21.500	Russia		7.340
"	"	15.105	"	"	21.520	"	"	7.650
"	"	15.130	"	"	21.570	"	"	9.410
"	"	15.240	U.S.S.R.			"	"	9.600
"	"	17.780	Achkhabad,			"	"	9.750
"	"	17.800	Turkmenia		5.970	"	"	9.836
"	"	17.830	"	"	6.180	"	"	11.630
"	"	21.460	"	"	11.678	"	"	11.720
"	"	21.630	"	"	11.841	"	"	11.750
San Francisco,			Alma Ata,			"	"	15.370
Cal.		6.060	Kazakh		5.305	Minsk, Byelo-		
"	"	7.230	"	"	6.220	russia		9.500
"	"	9.570	"	"	9.340	"	"	11.760
"	"	9.670	"	"	9.380	Moscow,		
"	"	11.860	"	"	9.625	Russia		4.560
"	"	11.900	"	"	15.000			

U.S.S.R.—cont.		Mc/s	Moscow, Russia		Mc/s	Moscow, Russia		Mc/s
Moscow,	Russia	5.080	”	”	7.295	”	”	11.710
”	”	5.780	”	”	7.300	”	”	11.725
”	”	5.922	”	”	7.310	”	”	11.740
”	”	5.957	”	”	7.320	”	”	11.765
”	”	5.970	”	”	7.330	”	”	11.780
”	”	5.980	”	”	7.360	”	”	11.790
”	”	6.000	”	”	7.390	”	”	11.805
”	”	6.010	”	”	7.790	”	”	11.820
”	”	6.030	”	”	8.645	”	”	11.830
”	”	6.040	”	”	8.760	”	”	11.860
”	”	6.045	”	”	8.830	”	”	11.865
”	”	6.060	”	”	8.910	”	”	11.875
”	”	6.090	”	”	9.045	”	”	11.890
”	”	6.100	”	”	9.435	”	”	11.900
”	”	6.110	”	”	9.480	”	”	11.920
”	”	6.130	”	”	9.525	”	”	11.950
”	”	6.135	”	”	9.545	”	”	11.960
”	”	6.145	”	”	9.550	”	”	12.020
”	”	6.150	”	”	9.610	”	”	12.270
”	”	6.160	”	”	9.630	”	”	13.400
”	”	6.185	”	”	9.640	”	”	15.040
”	”	6.195	”	”	9.650	”	”	15.090
”	”	6.210	”	”	9.660	”	”	15.170
”	”	6.215	”	”	9.670	”	”	15.180
”	”	6.225	”	”	9.680	”	”	15.190
”	”	7.037	”	”	9.690	”	”	15.210
”	”	7.100	”	”	9.710	”	”	15.230
”	”	7.165	”	”	9.720	”	”	15.240
”	”	7.180	”	”	9.740	”	”	15.280
”	”	7.200	”	”	9.760	”	”	15.280
”	”	7.210	”	”	9.780	”	”	15.295
”	”	7.215	”	”	9.790	”	”	15.320
”	”	7.225	”	”	9.800	”	”	15.360
”	”	7.235	”	”	9.830	”	”	15.390
”	”	7.245	”	”	9.880	”	”	15.410
”	”	7.260	”	”	10.660	”	”	15.440
”	”	7.265	”	”	11.117	”	”	15.450
”	”	7.270	”	”	11.630	”	”	15.550
”	”	7.280	”	”	11.690	”	”	17.830

	Mc/s		Mc/s		Mc/s
<b>U.S.S.R.—cont.</b>		<b>Montevideo</b>	6.174	<b>Bolivar</b>	6.200
Moscow,		"	9.620	Caracas	3.505
Russia	17.840	"	11.735	Caracas	3.530
" "	17.850	"	11.833	"	4.878
" "	22.520	"	11.900	"	4.890
Novosibirsk,		"	15.300	"	4.920
Russia	15.310	"	27.000	"	4.972
Petropavlovsk,		"	29.500	"	5.020
Russia	6.070	<b>VATICAN CITY</b>		"	5.040
" "	11.885	Vatican		"	5.047
" "	15.110	City	5.969	"	6.170
Stalinabad,		" "	6.190	"	9.640
Tadzhik	7.200	" "	7.138	Carora	3.341
" "	7.440	" "	7.280	Cuidad	
Sverdlovsk,		" "	9.550	Bolivar	4.790
Russia	15.270	" "	9.642	" "	4.899
" "	15.310	" "	9.655	Cumana	3.590
Tashkent,		" "	9.854	" "	4.960
Uzbek	6.825	" "	11.680	El Tigre	3.325
Tiflis,		" "	11.740	Maracaibo	4.802
Georgia	6.050	" "	15.095	" "	6.150
Yakutsk,		" "	15.120	Maturin	3.590
Siberia	5.980	" "	17.445	S. Cristobal	3.550
<b>URUGUAY</b>		" "	17.755	" "	4.828
Colonia	6.055	" "	17.840	S. Fernando	4.820
" "	9.640	" "	21.740	Valera	4.842
Montevideo	6.035	<b>VENEZUELA</b>		<b>YUGOSLAVIA</b>	
" "	6.075	Barcelona	3.450	Belgrade	6.100
" "	6.130	" "	3.515	" "	6.140
" "	6.155	Barquisi-		" "	9.507
" "	6.161	meto	4.994	" "	15.225

## European Television Stations

In addition to the carrier frequency of Europe's television transmitters we give, in the second column, the radiated power in kW, in the third the type or polarity of modulation, in the next whether vertical (V) or horizontal (H) polarization is used, in the fifth the number of lines and lastly whether double (D), upper (U) or lower (L) sideband transmission is employed. The frequencies of sound channels are indicated by (S) in the first column. Projected stations are marked with a (P).

1	2	3	4	5	6	Station and Country
41.50(S)	3	A.M.				London <i>G. Britain</i>
42.00(S)	5	A.M.				Paris <i>France</i>
45.00	17	+	V	405	D	London <i>G. Britain</i>
46.00	30	+	V	441		Paris <i>France</i>
47.75		-		625		Kootwijk <i>Netherlands</i>
48.25(S)	12	A.M.				Holme Moss (P) <i>G. Britain</i>
48.25		-	H	625		Eindhoven <i>Netherlands</i>
49.00(S)						Kootwijk <i>Netherlands</i>
51.75	35	+	V	405	L	Holme Moss (P) <i>G. Britain</i>
53.25(S)	12	A.M.				Kirk O'Shotts (P) <i>G. Britain</i>
53.75(S)		F.M.				Eindhoven <i>Netherlands</i>
56.75	50	+	V	405	L	Kirk O'Shotts (P) <i>G. Britain</i>
58.25(S)	12	A.M.				Sutton Coldfield <i>G. Britain</i>
61.75	35	+	V	405	L	Sutton Coldfield <i>G. Britain</i>
62.25		-	H	625		Lopik (P) <i>Netherlands</i>
62.25		-		625		Lausanne <i>Switzerland</i>
63.25	0.1	-		625	D	Copenhagen <i>Denmark</i>
63.25(S)	12	A.M.				Wenvoe (P) <i>G. Britain</i>
66.75	50	+	V	405	L	Wenvoe (P) <i>G. Britain</i>
67.25(S)	0.1	F.M.				Copenhagen <i>Denmark</i>
67.75(S)		F.M.				Lopik (P) <i>Netherlands</i>
67.75(S)						Lausanne <i>Switzerland</i>
83.25	5	-		625	U	Turin <i>Italy</i>
87.75(S)	2.5	F.M.				Turin <i>Italy</i>
171.40(S)	0.7	A.M.				Lille <i>France</i>
185.25	3	+	H	819	L	Lille <i>France</i>

1	2	3	4	5	6	Station and Country
202.10(S)	3	A.M.				Paris <i>France</i>
213.25	5	+	H 819 L			Paris <i>France</i>

The carrier frequencies of the three 625-line transmitters in the U.S.S.R.—Moscow, Leningrad and Kiev—are not known.

## Consol and Standard Frequency Stations

kc/s	Metres	kW	Call	Station and Country
<b>CONSOL</b>				
257	1167	—	TRQ	Ploneis <i>France</i>
266	1128	2	MWN	Bushmills <i>N. Ireland</i>
303	990	1.5	—	Lugo <i>Spain</i>
311	965	1.5	HT	Seville <i>Spain</i>
319	940	1.5	LEC	Stavanger <i>Norway</i>
<b>STANDARD FREQUENCY STATIONS</b>				
2,000	150	0.35	GMT	Royal Observatory, Abinger, Surrey, <i>G. Britain</i>
2,500	120	0.7	WWV	Beltsville, Washington <i>U.S.A.</i>
3,500.25	85.7	0.5	GB1RS	R.S.G.B., London <i>G. Britain</i>
5,000	60	8	WWV	Beltsville, Washington <i>U.S.A.</i>
5,000	60	1.8	WWVH	Maui <i>Hawaii</i>
5,000	60	—	JJY	Kemigawa <i>Japan</i>
10,000	30	9	WWV	Beltsville, Washington <i>U.S.A.</i>
10,000	30	1.8	WWVH	Maui <i>Hawaii</i>
15,000	20	9	WWV	Beltsville, Washington <i>U.S.A.</i>
15,000	20	1.8	WWVH	Maui <i>Hawaii</i>
20,000	15	8.5	WWV	Beltsville, Washington <i>U.S.A.</i>
25,000	12	0.1	WWV	Beltsville, Washington <i>U.S.A.</i>
30,000	10	0.1	WWV	Beltsville, Washington <i>U.S.A.</i>
35,000	8.57	0.1	WWV	Beltsville, Washington <i>U.S.A.</i>

In addition to the standard frequency transmissions given above, the frequencies of the following G.P.O. and B.B.C. stations are maintained at their normal values to a tolerance of better than  $\pm 1$  part in  $10^6$ :— Rugby (GBR), 16 kc/s; Droitwich, 200; Skelton (GRO), 6,180; Daventry (GSB), 9,510; Daventry (GSV), 17,810.

**B.B.C. Tuning Notes.**—The 440-c/s tuning note radiated immediately before the opening of the Third Programme and the 1,000-c/s note preceding the opening of the Home Service and Light Programme are normally maintained to an accuracy of  $\pm 1$  part in  $10^6$ .

\* 10000 30 ? MSF<sup>86</sup> Rugby G. Britain



## Metre-wave European Stations

The transmitters listed are frequency modulated unless marked with an asterisk.

Mc/s	Metres	kW	Station and Country
38.970	7.700	—	Prague <i>Czechoslovakia</i>
41.625	7.208	0.75	Stockholm <i>Sweden</i>
41.870	7.141	—	Berlin, U.S. Zone <i>Germany</i>
45.800	6.550	—	Leningrad, Russia <i>U.S.S.R.</i>
46.500	6.452	—	Moscow, Russia <i>U.S.S.R.</i>
56.500	5.309	0.25	Lyons <i>France</i>
56.500	5.309	0.25	Paris-Romainville <i>France</i>
69.000	4.348	5	Paris <i>France</i>
87.70	3.421	—	Hamburg, Brit. Zone <i>Germany</i>
87.70	3.421	—	Bad Mergentheim, Fr. Zone <i>Germany</i>
87.700	3.421	0.1	Muhlacker, U.S. Zone <i>Germany</i>
87.700	3.421	0.25	Ulm-Wilhelmsburg, U.S. Zone <i>Germany</i>
87.700	3.421	0.25	Wurzburg, U.S. Zone <i>Germany</i>
87.700	3.421	0.25	Bamberg, U.S. Zone <i>Germany</i>
88.400	3.394	0.1	Berlin-Siemensstadt, Brit. Zone <i>Germany</i>
88.500	3.390	10	Langenburg, Brit. Zone <i>Germany</i>
88.900	3.375	10	Hamburg, Brit. Zone <i>Germany</i>
89.300	3.359	0.5	Hanover, Brit. Zone <i>Germany</i>
89.300	3.359	1	Wendelstein, U.S. Zone <i>Germany</i>
89.500	3.352	—	Prague <i>Czechoslovakia</i>
89.700	3.344	1	Cologne, Brit. Zone <i>Germany</i>
90.000	3.333	3	Berlin-Britz, U.S. Zone <i>Germany</i>
90.100	3.330	0.1	Kassel, U.S. Zone <i>Germany</i>
90.100	3.330	1	Stuttgart, U.S. Zone <i>Germany</i>
90.500	3.315	0.25	Munich, U.S. Zone <i>Germany</i>
90.700	3.308	5	Copenhagen <i>Denmark</i>
90.900	3.300	—	Bologna <i>Italy</i>
91.300	3.286	0.25	Heidelberg, U.S. Zone <i>Germany</i>
91.400	3.282	25	Wrotham <i>G. Britain</i>
91.900	3.264	—	Genoa <i>Italy</i>
91.900	3.264	—	Venice <i>Italy</i>

Mc/s	Metres	kW	Station and Country	
92.100	3.257	0.25	Nuremberg, U.S. Zone	Germany
92.900	3.229	10	Feldberg, U.S. Zone	Germany
93.000	3.226	—	Berne	Switzerland
93.700	3.202	0.25	Stuttgart-Burgholz, U.S. Zone	Germany
93.700	3.202	—	Milan	Italy
93.800*	3.198	18	Wrotham	G. Britain
93.900	3.195	—	Florence	Italy
94.000*	3.191	—	Scheveningen	Netherlands
94.500	3.175	—	Berlin, U.S.S.R. Zone	Germany
94.900	3.161	1	Naples	Italy
95.900	3.128	—	Turin	Italy
96.500	3.109	5	Copenhagen	Denmark
98.500*	3.046	1	Brussels	Belgium
98.900	3.033	3	Rome	Italy
98.900	3.033	3	Turin	Italy
99.900	3.003	3	Milan	Italy

## British Amateur Transmitting Frequencies

Mc/s	Max. Power (W)	Mc/s	Max. Power (W)
1.715 — 2.0	10	144 — 146	150
3.5 — 3.635	150	420 — 460	25
3.685 — 3.8	150	464 — 465R	5
7.0 — 7.3	150	1,215 — 1,300T	25
14.0 — 14.4	150	2,300 — 2,450T	25
26.96 — 27.28R	5	5,650 — 5,850T	25
28.0 — 30.0	150	10,000 — 10,500T	25

R—Frequencies for radio control of models.

T—Television transmission (150 W) permitted within these bands.

# International Allocation of Call Signs

The following table of prefixes was revised at the Atlantic City Conference 1947, and came into use in 1949. The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA-ALZ	U.S.A.	HUA-HUZ	Salvador
AMA-AOZ	(Not Allocated)	HVA-HVZ	Vatican City
APA-ASZ	Pakistan	HWA-HYZ	France and Colonies
ATA-AWZ	India	HZA-HZZ	Saudi Arabia
AXA-AXZ	Australia	IAA-IZZ	Italy and Colonies
AYA-AZZ	Argentina	JAA-JSZ	Japan
BAA-BZZ	China	JTA-JVZ	Mongolia
CAA-CEZ	Chile	JWA-JXZ	Norway
CFA-CKZ	Canada	JYA-JZZ	(Not Allocated)
CLA-CMZ	Cuba	KAA-KZZ	U.S.A.
CNA-CNZ	Morocco	LAA-LNZ	Norway
COA-COZ	Cuba	LOA-LWZ	Argentina
CPA-CPZ	Bolivia	LXA-LXZ	Luxembourg
CQA-CRZ	Portuguese Colonies	LYA-LYZ	Lithuania
CSA-CUZ	Portugal	LZA-LZZ	Bulgaria
CVA-CXZ	Uruguay	MAA-MZZ	Great Britain
CYA-CZZ	Canada	NAA-NZZ	U.S.A.
DAA-DMZ	Germany	OAA-OCZ	Peru
DNA-DOZ	Belgian Congo	ODA-ODZ	Lebanon
DRA-DTZ	Byelorussia	OEA-OEZ	Austria
DUA-DZZ	Philippines	OFA-OJZ	Finland
EAA-EHZ	Spain	OKA-OMZ	Czechoslovakia
EIA-EJZ	Ireland	ONA-OTZ	Belgium and Colonies
EKA-EKZ	U.S.S.R.	OUA-OZZ	Denmark
ELA-ELZ	Liberia	PAA-PIZ	Netherlands
EMA-EOZ	U.S.S.R.	PJA-PJZ	Curacao
EPA-EQZ	Persia	PKA-POZ	Netherlands Indies
ERA-ERZ	U.S.S.R.	PPA-PYZ	Brazil
ESA-ESZ	Estonia	PZA-PZZ	Surinam
ETA-BTZ	Ethiopia	QAA-QZZ	(Service Abbreviations)
EUA-EZZ	U.S.S.R.	RAA-RZZ	U.S.S.R.
FAA-FZZ	France and Colonies	SAA-SMZ	Sweden
GAA-GZZ	Great Britain	SNA-SRZ	Poland
HAA-HAZ	Hungary	SSA-SUZ	Egypt
HBA-HBZ	Switzerland	SVA-SZZ	Greece
HCA-HDZ	Ecuador	TAA-TCZ	Turkey
HEA-HEZ	Switzerland	TDA-TDZ	Guatemala
HFA-HFZ	Poland	TEA-TEZ	Costa Rica
HGA-HGZ	Hungary	TFA-TFZ	Iceland
HHA-HHZ	Haiti	TGA-TGZ	Guatemala
HIA-HIZ	Dominican Republic	THA-THZ	France and Colonies
HJA-HKZ	Colombia	TIA-TIZ	Costa Rica
HLA-HMZ	Korea	TJA-TZZ	France and Colonies
HNA-HNZ	Iraq	UAA-UQZ	U.S.S.R.
HOA-HPZ	Panama	URA-UTZ	Ukraine
HQA-HRZ	Honduras Republic	UUA-UZZ	U.S.S.R.
HSA-HSZ	Siam	VAA-VGZ	Canada
HTA-HTZ	Nicaragua	VHA-VNZ	Australia

VOA-VOZ Newfoundland  
 VPA-VSZ British Colonies  
 VTA-VWZ India  
 VXA-VYZ Canada  
 VZA-VZZ Australia  
 WAA-WZZ U.S.A.  
 XAA-XIZ Mexico  
 XJA-XOZ Canada  
 XPA-XPZ Denmark  
 XQA-XRZ Chile  
 XSA-XSZ China  
 XTA-XWZ France and Colonies  
 XXA-XXZ Portuguese Colonies  
 XYA-XZZ Burma  
 YAA-YAZ Afghanistan  
 YBA-YHZ Netherlands Indies  
 YIA-YIZ Iraq  
 YJA-YJZ New Hebrides  
 YKA-YKZ Syria  
 YLA-YLZ Latvia  
 YMA-YMZ Turkey  
 YNA-YNZ Nicaragua  
 YOA-YRZ Rumania  
 YSA-YSZ Salvador  
 YTA-YUZ Yugoslavia  
 YVA-YYZ Venezuela  
 YZA-YZZ Yugoslavia  
 ZAA-ZAZ Albania  
 ZBA-ZJZ British Colonies  
 ZKA-ZMZ New Zealand

ZNA-ZOZ British Colonies  
 ZPA-ZPZ Paraguay  
 ZQA-ZOZ British Colonies  
 ZRA-ZUZ South Africa  
 ZVA-ZZZ Brazil  
 2AA-2ZZ Great Britain  
 3AA-3AZ Monaco  
 3BA-3FZ Canada  
 3GA-3GZ Chile  
 3HA-3UZ China  
 3VA-3VZ France and Colonies  
 3WA-3XZ (Not Allocated)  
 3YA-3YZ Norway  
 3ZA-3ZZ Poland  
 4AA-4CZ Mexico  
 4DA-4IZ Philippines  
 4JA-4LZ U.S.S.R.  
 4MA-4MZ Venezuela  
 4NA-4OZ Yugoslavia  
 4PA-4SZ British Colonies  
 4TA-4TZ Peru  
 4UA-4UZ United Nations  
 4VA-4VZ Haiti  
 4WA-4WZ Yemen  
 4XA-4ZZ (Not Allocated)  
 5AA-5ZZ (Not Allocated)  
 6AA-6ZZ (Not Allocated)  
 7AA-7ZZ (Not Allocated)  
 8AA-8ZZ (Not Allocated)  
 8AA-9ZZ (Not Allocated)

# Standard Time

Hours and minutes to be added to, or subtracted from, G.M.T. to find Standard Time throughout the world.

Aden	+3	Cyprus	+2	Liberia	-0.44
Afghanistan	+4.30	Czechoslovakia	+1	Libya	+1
Africa, French Eq.	+1	Denmark	+1	Luxembourg	+1
Albania	+1	Dominican Rep.	-5	Madagascar	+3
Algeria	0	Ecuador	-5.14	Malaya	+7.30
Andorra	+1	Egypt	+2	Malta	+1
Angola	+1	Ethiopia	+3	Martinique	-4
Argentina	-3	Fiji Islands	+12	Mexico	-6
Australia		Finland	+2	Monaco	+1
N.S.W., Queens-		France	+1	Morocco	0
land, Victoria	+10	Gambia	0	Mozambique	+2
S. Australia, N.		Germany	+1	Netherlands	+1
Territory	+9.30	Gibraltar	0	Newfoundland	-3.31
W. Australia	+8	Goa	+5.30	New Guinea	
Austria	+1	Gold Coast	0	British	+10
Azores	-2	Great Britain	0	Dutch	+9.30
Bahamas	-5	Greece	+2	New Zealand	+12
Barbados	-4	Greenland	-3	Nicaragua	-6
Belgium	+1	Guadeloupe	-4	Nigeria	+1
Bermuda	-4	Guatemala	-6	Norway	+1
Bolivia	-4	Guiana		Pakistan	
Borneo	+8	British	-3.45	East	+6.30
Brazil		Dutch	-3.30	West	+5.30
Western	-4	French	-4	Panama	-5
Eastern	-3	Guinea		Papua	+10
Bulgaria	+2	Portuguese	0	Paraguay	-3.37
Burma	+6.30	Spanish	0	Persia	+3.30
Cameroon, French	+1	Haiti	-5	Peru	-5
Canada		Hawaii	-10.30	Philippines	+8
Atlantic	-4	Honduras, Brit.	-6	Poland	+1
Eastern	-5	Honduras Rep.	-6	Portugal	0
Central	-6	Hong Kong	+8	Puerto Rico	-4
Mountain	-7	Hungary	+1	Reunion	+4
Pacific	-8	Iceland	-1	Rhodesia	+2
Yukon	-9	India	+5.30	Rumania	+2
Canary Islands	0	Indo-China, Fr.	+7	Salvador	-6
Celebes	+8	Indonesia	+8	Saudi Arabia	+2
Ceylon	+5.30	Iraq	+3	Senegal	-1
Chile	-4	Ireland	0	Siam	+7
China		Israel	+2	Sierra Leone	0
Eastern	+8	Italy	+1	Somaliland, Brit.	+3
Western	+7	Jamaica	-5	South Africa	+2
Colombia	-5	Japan	+9	Spain	0
Congo, Belgian		Java	+8	Sudan	+2
Eastern	+2	Jordan	+2	Sumatra	
Western	+1	Kenya	+3	North	+6.30
Costa Rica	-6	Korea	+9	South	+7
Cuba	-5	Labrador	-3.31	Surinam	-3.30
Curaçao	-4.30	Lebanon	+2	Sweden	+1

Switzerland	+1	U.S.S.R.	Russia, Leningrad	
Syria	+2	Byelorussia,	to Archangel	+3
Tahiti	-10	Estonia, Finno-	to Orenburg	+4
Tanganyika	+3	Karelia, Latvia,	to Tobolsk	+5
Tangier	0	Lithuania, Mol-	to Tomsk	+6
Trieste	+1	davia, Ukraine	to Kansk	+7
Trinidad	-4	+3	to Vitim	+8
Tunisia	+1	Armenia, Azer-	to Vladivostok	+9
Turkey	+2	baijan, Georgia	to Okhotsk	+10
Uganda	+3	+4	to Gijiga	+11
Uruguay	-3.30	Kazakh W, Tajik,	to Long.	
U.S.A.		Turkmenia,	172.30E	+12
Eastern	-5	Uzbek	to Bering St.	+13
Central	-6	+5	Venezuela	-4.30
Mountain	-7	Kazak E,	Yugoslavia	+1
Pacific	-8	Kirghizia		
		+6		

## Wavelength and Frequency Conversion

Broadcast receivers have their tuning scales calibrated in metres, kilocycles, megacycles or with the names of the principal stations. Kilocycle markings, where used, are as a rule confined to the medium- and long-wave bands, while either metres or megacycles are used on the short waves. Thus in order to locate a particular station on the dial of a receiver it may be necessary to convert the available wavelength, or frequency, figures into the form it appears on the dial of the receiver.

There is a simple relationship between these quantities as both wavelength and frequency are determined by the velocity of propagation of radio waves in space ; this relationship is

$$\text{Wavelength} = \frac{\text{Velocity}}{\text{Frequency}} ; \text{ or } \text{Frequency} = \frac{\text{Velocity}}{\text{Wavelength}}$$

As the velocity of propagation in space is, in round figures, 300,000,000 metres per second, any of the quantities—metres, kilocycles or megacycles—are readily converted into the other forms by means of the following formulae :

$$\text{Metres} = \frac{\text{Kilocycles to Metres}}{\text{Frequency (kc/s)}} \quad \frac{300,000}{\text{Frequency (kc/s)}}$$

$$\text{Metres} = \frac{\text{Megacycles to Metres}}{\text{Frequency (Mc/s)}} \quad \frac{300}{\text{Frequency (Mc/s)}}$$

$$\text{kc/s} = \frac{\text{Metres to Kilocycles}}{\text{Wavelength (metres)}} \quad \frac{300,000}{\text{Wavelength (metres)}}$$

$$\text{Mc/s} = \frac{\text{Metres to Megacycles}}{\text{Wavelength (metres)}} \quad \frac{300}{\text{Wavelength (metres)}}$$

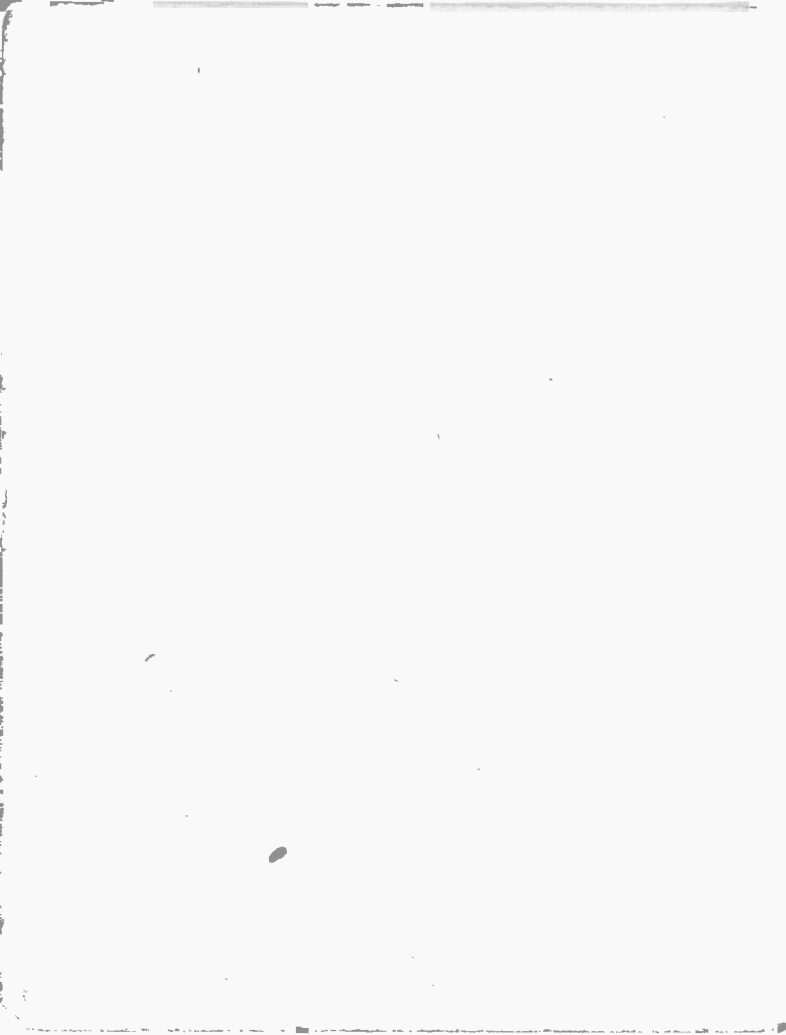
## Conversion Table

Centi- metres or Metres	Mega- cycles	Metres	Mega- cycles	Metres	Mega- cycles
1 cm	30,000	10	30.0	26	11.54
5 "	6,000	11	27.27	27	11.11
10 "	3,000	12	25.0	28	10.71
20 "	1,500	13	23.08	29	10.35
30 "	1,000	14	21.43	30	10.0
40 "	750	15	20.0	31	9.678
50 "	600	16	18.75	32	9.375
1 metre	300	17	17.64	33	9.090
2 metres	150	18	16.67	34	8.823
3 "	100	19	15.78	35	8.572
4 "	75	20	15.0	36	8.332
5 "	60	21	14.28	37	8.118
6 "	50	22	13.64	38	7.894
7 "	42.86	23	13.04	39	7.692
8 "	37.5	24	12.50	40	7.50
9 "	33.33	25	12.0	41	7.317

Metres	Mc/s	Metres	kc/s	Metres	kc/s
42	7.143	205	1,463	465	645.2
43	6.977	210	1,429	470	638.3
44	6.819	215	1,395	475	631.6
45	6.667	220	1,364	480	625.0
46	6.522	225	1,333	485	618.6
47	6.383	230	1,304	490	612.2
48	6.250	235	1,277	495	606.1
49	6.122	240	1,250	500	600.0
50	6.0	245	1,224	550	545.5
52	5.769	250	1,200	600	500.0
54	5.555	255	1,176	650	461.5
56	5.357	260	1,154	700	428.6
58	5.172	265	1,132	750	400.0
60	5.0	270	1,111	800	375.0
65	4.617	275	1,091	850	352.9
70	4.287	280	1,071	900	333.3
75	4.0	285	1,053	950	315.8
80	3.750	290	1,034	1,000	300.0
85	3.530	295	1,017	1,100	272.7
90	3.333	300	1,000	1,200	250.0
95	3.153	305	983.6	1,300	230.8
100	3.0	310	967.8	1,400	214.3
103	2.913	315	953.4	1,500	200.0
106	2.830	320	937.5	1,600	187.5
109	2.752	325	923.0	1,700	176.5
111	2.703	330	909.0	1,800	166.7
113	2.655	335	895.6	1,900	157.9
115	2.609	340	882.3	2,000	150.0
117	2.564	345	869.6	2,200	136.4
120	2.50	350	857.2	2,400	125.0
122	2.459	355	845.0	2,600	115.4
124	2.419	360	833.2	2,800	107.1
126	2.381	365	822.0	3,000	100.0
128	2.344	370	811.8	3,500	85.7
130	2.308	375	800.0	4,000	75.0
135	2.222	380	789.4	4,500	66.7
140	2.143	385	779.2	5,000	60.0
145	2.069	390	769.2	5,500	54.5
150	2.0	395	759.4	6,000	50.0
155	1.935	400	750.0	6,500	46.1
160	1.875	405	740.7	7,000	42.9
165	1.818	410	731.7	7,500	40.0
170	1.765	415	722.9	8,000	37.5
175	1.714	420	714.3	8,500	35.3
180	1.667	425	705.9	9,000	33.3
185	1.622	430	697.7	9,500	31.6
190	1.579	435	689.7	10,000	30.0
195	1.538	440	681.8	20,000	15.0
200	1.5	445	674.2	30,000	10.0
		450	666.7		
		455	659.3		
		460	652.2		







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