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# GUIDE TO BROADCASTING STATIONS

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# Guide to **BROADCASTING STATIONS**

*Including details of the Copenhagen Plan,  
which comes into operation on March 15, 1950*

*Compiled by*

**Wireless World**

*Fifth Edition*



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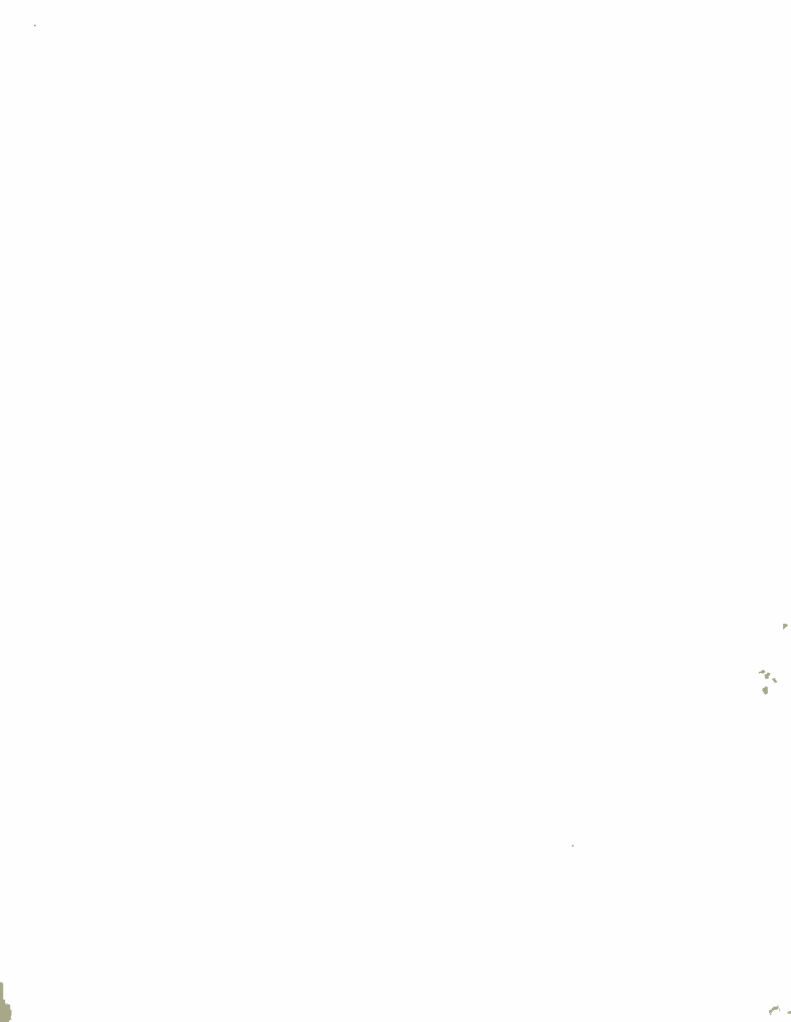
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# INTRODUCTION

**I**N preparing the fifth edition of this booklet every endeavour has been made to minimize errors in the lists, which have been completely revised from information obtained from the best available sources. We are indebted to the B.B.C. for allowing us to check the entries against frequency measurements made at the Tatsfield Receiving Station.

The list of long- and medium-wave stations does not entirely conform to the Lucerne Plan, introduced in 1934 and operative until the Copenhagen Plan is introduced on March 15, 1950, but gives the frequencies at present employed by stations in the European Broadcasting Area. In addition, the allocations to European long- and medium-wave stations under the Copenhagen Plan are given in order of frequency in a separate list. The geographical list includes both frequencies.

For the purpose of frequency allocation the European Broadcasting Area is bounded on the South by parallel  $30^{\circ}\text{N}$ ; on the West by a line extending from the North Pole along meridian  $10^{\circ}\text{W}$  to its intersection with parallel  $72^{\circ}\text{N}$ , thence by great circle arc to the point of intersection of meridian  $50^{\circ}\text{W}$  and parallel  $40^{\circ}\text{N}$ , and thence by a line leading to the point of intersection of meridian  $40^{\circ}\text{W}$  and parallel  $30^{\circ}\text{N}$ ; on the east by meridian  $40^{\circ}\text{E}$ . 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 are 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 allocated to them although not necessarily in use at the time of the preparation of the data.

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).

Stations known to have a power of less than one kilowatt have not been included in the lists.

*The Editor,*  
"Wireless World"

*Dorset House,*  
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# Long- and Medium-wave European Stations

## Pre-Copenhagen Frequencies

kc/s	Metres	kW	Station and Country	
153	1,961	100	Kaunas, Lithuania	<i>U.S.S.R.</i>
155	1,935	10	Prague III	<i>Czechoslovakia</i>
160	1,875	150	Lahti	<i>Finland</i>
160	1,875	10	Kootwijk	<i>Netherlands</i>
160	1,875	150	Brasov	<i>Rumania</i>
167	1,796	200	Ottringham, Yorks.	<i>Great Britain</i>
174	1,724	500	Moscow I, Russia	<i>U.S.S.R.</i>
182	1,648	20	Allouis	<i>France</i>
182	1,648	100	Reykjavik	<i>Iceland</i>
182	1,648	120	Ankara	<i>Turkey</i>
191	1,571	100	Berlin, U.S.S.R. Zone	<i>Germany</i>
200	1,500	150	Droitwich, Worcs.	<i>Great Britain</i>
200	1,500	100	Kiev II, Ukraine	<i>U.S.S.R.</i>
208	1,442	100	Leningrad, Russia	<i>U.S.S.R.</i>
216	1,389	150	Motala	<i>Sweden</i>
218	1,376	—	Königswusterhausen, U.S.S.R. Zone	<i>Germany</i>
224	1,339	10	Warsaw II	<i>Poland</i>
232	1,293	150	Luxembourg	<i>Luxembourg</i>
232	1,293	100	Moscow II, Russia	<i>U.S.S.R.</i>
240	1,250	60	Kalundborg I	<i>Denmark</i>
248	1,209.6	120	Kiev I, Ukraine	<i>U.S.S.R.</i>
252	1,190	10	Bodö	<i>Norway</i>
260	1,154	20	Bergen I	<i>Norway</i>
260	1,154	60	Oslo	<i>Norway</i>
264	1,136	20	Magdeburg, U.S.S.R. Zone	<i>Germany</i>
269	1,115	60	Minsk, Byelorussia	<i>U.S.S.R.</i>
279	1,075	1	Danzig	<i>Poland</i>
284	1,056	—	Königswusterhausen (R.F.), U.S.S.R. Zone	<i>Germany</i>
291	1,029	10	Tromsö	<i>Norway</i>
310	968	1	Joensuu	<i>Finland</i>
347	864.6	1	Finnmark	<i>Norway</i>

kc/s	Metres	kW	Station and Country	
355	845	1	Bergen II	Norway
356	843	—	Voronezh, Russia	U.S.S.R.
385	779.2	10	Kharkov, Ukraine	U.S.S.R.
392	765.3	25	Banska Bystrica	Czechoslovakia
392	765.3	10	Lulea	Sweden
415	722	10	Ostersund	Sweden
433	693	10	Oulu	Finland
438	685	—	Geneva	Switzerland
514	583.7	15	Plzen	Czechoslovakia
519	578	6	Dornbirn, French Zone	Austria
519	578	20	Innsbrück, French Zone	Austria
519	578	1	Hamar	Norway
519	578	—	Tartu, Estonia	U.S.S.R.
527	569.3	20	Kuopio	Finland
527	569.3	20	Ljubljana	Yugoslavia
530	566	2	Kaiserslautern, French Zone	Germany
530	566	5	Bremen, U.S. Zone	Germany
536	559.7	20	Bolzano	Italy
536	559.7	5	Cagliari	Italy
536	559.7	25	Vilna, Lithuania	U.S.S.R.
541	554	5	Kalundborg II	Denmark
546	549.5	135	Budapest I	Hungary
556	539.6	100	Beromünster	Switzerland
556	539.6	40	Rostov-on-Don, Russia	U.S.S.R.
564	533.2	20	Potsdam, U.S.S.R. Zone	Germany
565	531	100	Athlone	Eire
565	531	12	Palermo	Italy
565	531	—	Kishinev, Moldavia	U.S.S.R.
566	530	—	Gorki, Russia	U.S.S.R.
567	529.1	1.5	Graz (B.F.), Brit. Zone	Austria
574	522.6	100	Stuttgart, U.S. Zone	Germany
574	522.6	20	Jerusalem II	Israel
583	514.6	20	Droitwich, Worcs.	Great Britain
583	514.6	20	Tunis II	Tunisia
583	514.6	50	Riga, Latvia	U.S.S.R.
592	506.8	10	Vienna I, U.S.S.R. Zone	Austria
592	506.8	2.5	Paris III	France
592	506.8	2	Damascus	Syria

kc/s	Metres	kW	Station and Country	
601	499.2	10	Frankfurt (A.F.), U.S. Zone	<i>Germany</i>
601	499.2	15	Athens	<i>Greece</i>
601	499.2	20	Rabat I	<i>French Morocco</i>
601	499.2	150	Sundsvall	<i>Sweden</i>
610	491.8	100	Florence I	<i>Italy</i>
610	491.8	—	Krasnodar, Russia	<i>U.S.S.R.</i>
615	487.8	1	Eidar	<i>Iceland</i>
620	483.9	20	Brussels I	<i>Belgium</i>
620	483.9	12	Cairo I	<i>Egypt</i>
629	476.9	1	Linz, U.S. Zone	<i>Austria</i>
629	476.9	20	Berlin, U.S. Zone	<i>Germany</i>
629	476.9	20	Kristiansand	<i>Norway</i>
629	476.9	100	Vigra	<i>Norway</i>
629	476.9	40	Lisbon I	<i>Portugal</i>
629	476.9	20	Zagreb I	<i>Yugoslavia</i>
638	470.2	120	Prague I	<i>Czechoslovakia</i>
648	463	100	Limoges I	<i>France</i>
648	463	—	Murmansk, Russia	<i>U.S.S.R.</i>
648	463	—	Petrozavodsk, Karelia	<i>U.S.S.R.</i>
651	460.8	—	Tel-Aviv	<i>Israel</i>
658	455.9	100	Norden, Brit. Zone	<i>Germany</i>
665	451	5	Ajdovscina	<i>Yugoslavia</i>
665	451	5	Maribor	<i>Yugoslavia</i>
668	449.1	100	Moorside Edge, Yorks.	<i>G. Britain</i>
677	443.1	20	Jerusalem I	<i>Israel</i>
677	443.1	100	Sottens	<i>Switzerland</i>
686	437.3	100	Berlin, U.S. Zone	<i>Germany</i>
686	437.3	15	Madrid	<i>Spain</i>
686	437.3	20	Belgrade I	<i>Yugoslavia</i>
695	431.7	100	Paris I	<i>France</i>
704	426.1	60	Andorra	<i>Andorra</i>
704	426.1	55	Stockholm	<i>Sweden</i>
704	426.1	2	Aleppo	<i>Syria</i>
713	420.8	100	Rome I	<i>Italy</i>
722	415.5	100	Leipzig II (R.F.), U.S.S.R. Zone	<i>Germany</i>
722	415.5	60	Hilversum II	<i>Netherlands</i>

kc/s	Metres	kW	Station and Country	
722	415.5	12	Lisbon I	<i>Portugal</i>
730	411	4	Beirut	<i>Lebanon</i>
731	410.4	20	Nancy I	<i>France</i>
731	410.4	5	Seville	<i>Spain</i>
731	410.4	50	Tallinn, Estonia	<i>U.S.S.R.</i>
740	405.4	100	Munich, U.S. Zone	<i>Germany</i>
749	400.5	20	Marseilles I	<i>France</i>
749	400.5	—	Dzhowtchikov, Russia	<i>U.S.S.R.</i>
749	400.5	20	Leningrad, Russia	<i>U.S.S.R.</i>
758	395.8	50	Warsaw I	<i>Poland</i>
758	395.8	—	Istanbul	<i>Turkey</i>
762	393.7	13	Madrid	<i>Spain</i>
766	391.6	—	Vatican City	<i>Vatican City</i>
767	391.1	—	Sofia II	<i>Bulgaria</i>
767	391.1	60	Burghead, Scotland	<i>Gt. Britain</i>
767	391.1	2.5	Redmoss, Scotland	<i>Gt. Britain</i>
767	391.1	60	Westerglen, Scotland	<i>Gt. Britain</i>
767	391.1	1.5	Rijeka	<i>Yugoslavia</i>
776	386.6	10	Paris II	<i>France</i>
776	386.6	10	Stalino, Ukraine	<i>U.S.S.R.</i>
785	382.2	100	Leipzig I, U.S.S.R. Zone	<i>Germany</i>
789	380.2	—	Jerusalem	<i>Israel</i>
795	377.4	9	Barcelona	<i>Spain</i>
795	377.4	10	Lwow, Ukraine	<i>U.S.S.R.</i>
804	373.1	10	Penmon, Wales	<i>Great Britain</i>
804	373.1	60	Washford, Somerset	<i>Great Britain</i>
804	373.1	1	Wrexham, Wales	<i>Great Britain</i>
807	371.7	2	Salonika	<i>Greece</i>
814	368.6	50	Milan I	<i>Italy</i>
814	368.6	—	Voronezh, Russia	<i>U.S.S.R.</i>
823	364.5	20	Trondheim	<i>Norway</i>
823	364.5	12	Bucharest I	<i>Rumania</i>
823	364.5	60	Tunis	<i>Tunisia</i>
827	362.6	1.5	Baden-Baden, French Zone	<i>Germany</i>
827	362.6	10	Freiburg, French Zone	<i>Germany</i>
827	362.6	5	Sigmaringen, French Zone	<i>Germany</i>

kc/s	Metres	kW	Station and Country	
832	360.6	—	Kaunas, Lithuania	<i>U.S.S.R.</i>
832	360.6	35	Moscow III, Russia	<i>U.S.S.R.</i>
833	360	1	Benghazi (B.F.)	<i>Libya</i>
836	358.9	10	Quimper-Quimerch	<i>France</i>
841	356.7	100	Berlin, U.S.S.R. Zone	<i>Germany</i>
850	352.9	100	Sofia	<i>Bulgaria</i>
850	352.9	100	Stavanger	<i>Norway</i>
850	352.9	30	Zaragoza	<i>Spain</i>
859	349.2	20	Strasbourg I	<i>France</i>
859	349.2	20	Simferopol, Russia	<i>U.S.S.R.</i>
868	345.6	1	Vienna (B.F.), Brit. Zone	<i>Austria</i>
868	345.6	10	Brussels IV	<i>Belgium</i>
868	345.6	1	Rabat II	<i>French Morocco</i>
868	345.6	6	Poznan	<i>Poland</i>
877	342.1	100	Brookmans Park, London	<i>Gt. Britain</i>
877	342.1	—	Kaliningrad, Russia	<i>U.S.S.R.</i>
886	338.6	100	Graz, Brit. Zone	<i>Austria</i>
895	335.2	40	Turku	<i>Finland</i>
895	335.2	100	Lyons I	<i>France</i>
904	331.9	100	Cologne I, Brit. Zone	<i>Germany</i>
904	331.9	100	Hamburg I, Brit. Zone	<i>Germany</i>
913	328.6	100	Toulouse I	<i>France</i>
913	328.6	10	Dniepropetrovsk, Ukraine	<i>U.S.S.R.</i>
922	325.4	20	Komarov	<i>Czechoslovakia</i>
922	325.4	100	Morava	<i>Czechoslovakia</i>
932	321.9	20	Brussels II	<i>Belgium</i>
941	318.8	20	Algiers I	<i>Algeria</i>
941	318.8	10	Goteborg	<i>Sweden</i>
950	315.8	2	Nüremberg, U.S. Zone	<i>Germany</i>
950	315.8	50	Breslau	<i>Poland</i>
950	315.8	100	Moscow, Russia	<i>U.S.S.R.</i>
951	315	—	Sfax	<i>Tunisia</i>
959	313	120	Monte Carlo	<i>Monaco</i>
961	312.2	1	Namsos	<i>Norway</i>
968	309.9	20	Bordeaux II	<i>France</i>
968	309.9	—	Timisoara	<i>Rumania</i>
968	309.9	30	Corunna	<i>Spain</i>

kc/s	Metres	kW	Station and Country	
968	309.9	10	Odessa, Ukraine	<i>U.S.S.R.</i>
977	307.1	100	Start Point, Devon	<i>Gt. Britain</i>
986	304.3	5	Genoa II	<i>Italy</i>
986	304.3	80	Turin I	<i>Italy</i>
986	304.3	24	Torun	<i>Poland</i>
995	301.5	110	Hilversum I	<i>Netherlands</i>
1004	298.8	50	Bratislava	<i>Czechoslovakia</i>
1004	298.8	1	Marrakesh	<i>French Morocco</i>
1013	296.2	60	Droitwich, Worcs.	<i>Gt. Britain</i>
1013	296.2	5	Norwich, Norfolk	<i>Gt. Britain</i>
1022	293.5	10	Cracow	<i>Poland</i>
1022	293.5	120	Madrid I	<i>Spain</i>
1031	291	50	Coblenz, French Zone	<i>Germany</i>
1031	291	20	Weimar, U.S.S.R. Zone	<i>Germany</i>
1040	288.5	100	Rennes I	<i>France</i>
1040	288.5	35	Budapest II	<i>Hungary</i>
1040	288.5	10	Leningrad II, Russia	<i>U.S.S.R.</i>
1050	285.7	100	Lisnagarvey, N. Ireland	<i>Gt. Britain</i>
1050	285.7	1	Londonderry, N. Ireland	<i>Gt. Britain</i>
1050	285.7	100	Stagshaw, North'd.	<i>Gt. Britain</i>
1052	285.2	5	Bucharest II	<i>Rumania</i>
1059	283.3	20	Bari I	<i>Italy</i>
1068	280.9	1	Vienna (A.F.), U.S. Zone	<i>Austria</i>
1068	280.9	1.5	Brno II	<i>Czechoslovakia</i>
1068	280.9	10	Montbéliard	<i>France</i>
1068	280.9	2	Nimes	<i>France</i>
1068	280.9	1	Bologna II	<i>Italy</i>
1068	280.9	1	Naples II	<i>Italy</i>
1068	280.9	30	Lisbon	<i>Portugal</i>
1068	280.9	3	San Sebastian	<i>Spain</i>
1077	278.6	100	Bordeaux I	<i>France</i>
1086	276.2	1	Fez	<i>French Morocco</i>
1086	276.2	100	Falun	<i>Sweden</i>
1086	276.2	20	Sarajevo	<i>Yugoslavia</i>
1095	274	5	Berlin (B.F.), Brit. Zone	<i>Germany</i>
1095	274	10	Elmshorn (B.F.), Brit. Zone	<i>Germany</i>

kc/s	Metres	kW	Station and Country
1095	274	10	Hanover (B.F.), Brit. Zone <i>Germany</i>
1095	274	20	Langenberg (B.F.), Brit. Zone <i>Germany</i>
1104	271.7	1	Salzburg (A.F.), U.S. Zone <i>Austria</i>
1104	271.7	5	Catania <i>Italy</i>
1104	271.7	3	Florence II <i>Italy</i>
1104	271.7	1	Barcelona <i>Spain</i>
1104	271.7	—	Kuldiga, Latvia <i>U.S.S.R.</i>
1113	269.5	10	Algiers II <i>Algeria</i>
1113	269.5	60	Prague II <i>Czechoslovakia</i>
1122	267.4	1	Alexandria <i>Egypt</i>
1122	267.4	100	Crowborough, Sussex <i>Gt. Britain</i>
1122	267.4	—	Ottringham, Yorks. <i>Gt. Britain</i>
1131	265.3	100	Hörby <i>Sweden</i>
1140	263.2	2.5	Bilbao <i>Spain</i>
1140	263.2	10	Trieste <i>Trieste</i>
1149	261.1	60	Brookmans Park, London <i>Gt. Britain</i>
1149	261.1	20	Burghead, Scotland <i>Gt. Britain</i>
1149	261.1	10	Lisnagarvey, N. Ireland <i>Gt. Britain</i>
1149	261.1	1	Londonderry, N. Ireland <i>Gt. Britain</i>
1149	261.1	60	Moorside Edge, Yorks. <i>Gt. Britain</i>
1149	261.1	1	Plymouth, Devon <i>Gt. Britain</i>
1149	261.1	2	Redmoss, Scotland <i>Gt. Britain</i>
1149	261.1	2	Redruth, Cornwall <i>Gt. Britain</i>
1149	261.1	10	Stagshaw, North'd. <i>Gt. Britain</i>
1149	261.1	60	Westerglen, Scotland <i>Gt. Britain</i>
1158	259.1	11	Ostrava <i>Czechoslovakia</i>
1158	259.1	1	Dijon I <i>France</i>
1158	259.1	20	Pau <i>France</i>
1167	257.1	15	Monte Ceneri <i>Switzerland</i>
1176	255.1	30	Copenhagen <i>Denmark</i>
1185	253.2	60	Nice I <i>France</i>
1195	251.6	60	Frankfurt, U.S. Zone <i>Germany</i>
1204	249.2	100	Kosice I <i>Czechoslovakia</i>

kc/s	Metres	kW	Station and Country	
1213	247.3	100	Lille I	<i>France</i>
1222	245.5	20	Venice I	<i>Italy</i>
1222	245.5	2	Hoogezand	<i>Netherlands</i>
1222	245.5	2	Beek	<i>Netherlands</i>
1222	245.5	1	Porsgrunn	<i>Norway</i>
1231	243.7	10	Katowice	<i>Poland</i>
1237	242.5	20	Schwerin, U.S.S.R. Zone	<i>Germany</i>
1238	242	1	Tangier, Intl. Zone	<i>Tangier</i>
1240	241.9	1	Cork	<i>Eire</i>
1240	241.9	20	Skoplje	<i>Yugoslavia</i>
1249	240	100	Munich II (A.F.), U.S. Zone	<i>Germany</i>
1249	240	100	Stuttgart (A.F.), U.S. Zone	<i>Germany</i>
1258	238.5	5	Rome II	<i>Italy</i>
1258	238.5	10	Riga, Latvia	<i>U.S.S.R.</i>
1267	236.8	20	Saarbrücken, French Zone	<i>Germany</i>
1267	236.8	5	Salzburg, U.S. Zone	<i>Austria</i>
1273	235.7	—	Belgrade II	<i>Yugoslavia</i>
1276	235.1	2	Varna	<i>Bulgaria</i>
1276	235.1	10	Fredrikstad	<i>Norway</i>
1279	234.5	5	Valencia	<i>Spain</i>
1285	233.5	15	Graz, Brit. Zone	<i>Austria</i>
1285	233.5	7	Klagenfurt, Brit. Zone	<i>Austria</i>
1285	233.5	5	Brussels III	<i>Belgium</i>
1285	233.5	—	Athens II	<i>Greece</i>
1294	231.8	15	Linz, U.S. Zone	<i>Austria</i>
1294	231.8	1	Notodden	<i>Norway</i>
1303	230.2	50	Bologna I	<i>Italy</i>
1312	228.7	2	Vienna II, U.S.S.R. Zone	<i>Austria</i>
1312	228.7	100	Naples I	<i>Italy</i>
1312	228.7	2.5	Malmö	<i>Sweden</i>
1321	227.1	20	Clermont I	<i>France</i>
1330	225.6	20	Berlin, Brit. Zone	<i>Germany</i>
1330	225.6	2.5	Flensburg, Brit. Zone	<i>Germany</i>
1330	225.6	20	Hanover, Brit. Zone	<i>Germany</i>
1330	225.6	1	Faro	<i>Portugal</i>



kc/s	Metres	kW	Station and Country	
1339	224	20	Limoges II	<i>France</i>
1339	224	25	Lyons II	<i>France</i>
1339	224	20	Marseilles II	<i>France</i>
1339	224	10	Nancy II	<i>France</i>
1339	224	20	Toulouse II	<i>France</i>
1339	224	10	Lodz	<i>Poland</i>
1348	222.6	5	Jihlava	<i>Czechoslovakia</i>
1348	222.6	1	Cairo II	<i>Egypt</i>
1348	222.6	1	Dublin	<i>Eire</i>
1348	222.6	1	Montélimar	<i>France</i>
1348	222.6	1	Poitiers	<i>France</i>
1348	222.6	5	San Remo	<i>Italy</i>
1357	221.1	10	Genoa I	<i>Italy</i>
1357	221.1	10	Milan II	<i>Italy</i>
1357	221.1	20	Turin II	<i>Italy</i>
1366	219.6	5	Budejovice	<i>Czechoslovakia</i>
1366	219.6	10	Nantes	<i>France</i>
1366	219.6	20	Herford (B.F.), Brit. Zone	<i>Germany</i>
1375	218.2	2	Beek	<i>Netherlands</i>
1375	218.2	10	Hilversum III	<i>Netherlands</i>
1375	218.2	2	Hoogezand	<i>Netherlands</i>
1377	217.8	—	Cetinge	<i>Yugoslavia</i>
1384	216.8	10	Bartley, Hants.	<i>Gt. Britain</i>
1384	216.8	20	Clevedon, Somerset	<i>Gt. Britain</i>
1384	216.8	1	Stettin	<i>Poland</i>
1393	215.4	20	Dijon II	<i>France</i>
1393	215.4	15	Grenoble I	<i>France</i>
1393	215.4	20	Lille II	<i>France</i>
1393	215.4	10	Montpellier I	<i>France</i>
1393	215.4	25	Nice II	<i>France</i>
1393	215.4	24	Rennes II	<i>France</i>
1393	215.4	10	Strasbourg II	<i>France</i>
1402	214	2	Stara Zagora	<i>Bulgaria</i>
1402	214	1	Hudiksvall	<i>Sweden</i>
1402	214	1	Umea	<i>Sweden</i>
1411	212.6	10	Bayreuth (A.F.), U.S. Zone	<i>Germany</i>
1411	212.6	3	Oporto	<i>Portugal</i>

kc/s	Metres	kW	Station and Country
1420	211.3	1	Oran I <i>Algeria</i>
1420	211.3	—	Lakatamia <i>Cyprus</i>
1420	211.3	10	Helsinki <i>Finland</i>
1420	211.3	1	Trieste (B.F.), Intl. Zone <i>Trieste</i>
1429	209.9	15	Vienna, U.S. Zone <i>Austria</i>
1429	209.9	1	Pori <i>Finland</i>
1429	209.9	2	Montceau-les-Mines <i>France</i>
1429	209.9	1	Perpignan <i>France</i>
1429	209.9	5	Ancona <i>Italy</i>
1433	209.3	1	Clermont II <i>France</i>
1438	208.6	1.25	Miskolc <i>Hungary</i>
1446	207.5	2	Constantine II <i>Algeria</i>
1447	207.3	9	Burgos <i>Spain</i>
1447	207.3	5	Dubrovnik <i>Yugoslavia</i>
1449	207	1.5	Dresden, U.S.S.R. Zone <i>Germany</i>
1456	206.8	20	Rouen-Louvetot <i>France</i>
1465	204.8	1.25	Pecs <i>Hungary</i>
1474	203.5	—	Sync. network <i>Gt. Britain</i>
1476	203.2	1	Tirana <i>Albania</i>
1485	202	2	Kosice II <i>Czechoslovakia</i>
1492	201.1	1	Tampere <i>Finland</i>
1492	201.1	5	Messina <i>Italy</i>
1509	198.9	—	Trieste (A.F.), Intl. Zone <i>Trieste</i>
1522	197	10	Vaasa <i>Finland</i>

## Copenhagen Frequency List of Long- and Medium-wave Stations

This list gives the frequencies allocated to European long- and medium-wave stations according to the Copenhagen Plan which comes into operation on March 15, 1950. The power given is that permitted by the Plan.

Chan- nel	kc/s	Metres	kW	Station and Country	
1	155	1,935	10	Tromsø	<i>Norway</i>
			150	Brasov	<i>Rumania</i>
2	164	1,829	450	Allouis	<i>France</i>
3	173	1,734	500	Moscow I, Russia	<i>U.S.S.R.</i>
4	182	1,648	100	Reykjavik	<i>Iceland</i>
			10	Lulea	<i>Sweden</i>
			120	Ankara	<i>Turkey</i>
5	191	1,571	200	Motala	<i>Sweden</i>
6	200	1,500	400	Droitwich, Worcs.	<i>G. Britain</i>
7	209	1,435	150	Kiev I, Ukraine	<i>U.S.S.R.</i>
8	218	1,376	200	Oslo	<i>Norway</i>
9	227	1,322	200	Warsaw I	<i>Poland</i>
10	236	1,271	100	Leningrad I, Russia	<i>U.S.S.R.</i>
11	245	1,224	150	Kalundborg	<i>Denmark</i>
12	254	1,181	200	Lahti	<i>Finland</i>
13	263	1,141	150	Moscow II, Russia	<i>U.S.S.R.</i>
14	272	1,103	200	Prague	<i>Czechoslovakia</i>
15	281	1,067	100	Minsk, Byelorussia	<i>U.S.S.R.</i>
—	420	714.3	10	Ostersund	<i>Sweden</i>
—	433	692.8	10	Oulu	<i>Finland</i>
—	520	576.9	1	Hamar	<i>Norway</i>
1	529	567.1	150	Beromünster	<i>Switzerland</i>
2	539	556.6	135	Budapest I	<i>Hungary</i>
3	548	547.4	20	Oukhta, Finno-Karelia	<i>U.S.S.R.</i>
			100	Simferopol, Russia	<i>U.S.S.R.</i>
4	557	538.6	20	Cairo II	<i>Egypt</i>
			100	Helsinki	<i>Finland</i>
			50	Monte Ceneri	<i>Switzerland</i>

Chan.	kc/s	Metres	kW	Station and Country	
5	566	530	100	Athlone I	<i>Eire</i>
			5	Catania	<i>Italy</i>
			10	Palermo	<i>Italy</i>
6	575	521.7	100	Riga, Latvia	<i>U.S.S.R.</i>
7	584	513.7	120	Vienna I, U.S.S.R. Zone	<i>Austria</i>
8	593	505.9	60	Sofia II	<i>Bulgaria</i>
			150	Sundsvall	<i>Sweden</i>
9	602	498.3	150	Lyons I	<i>France</i>
10	611	491	5	Eidar	<i>Iceland</i>
			120	Rabat	<i>French Morocco</i>
			100	Petrozavodsk, Finno-Karelia	<i>U.S.S.R.</i>
11	620	483.9	60	Sarajevo	<i>Yugoslavia</i>
			150	Brussels I	<i>Belgium</i>
			50	Moalatya	<i>Turkey</i>
12	629	476.9	100	Vigra	<i>Norway</i>
			120	Tunis II	<i>Tunisia</i>
13	638	470.2	150	Prague I	<i>Czechoslovakia</i>
14	647	463.7	15	Burghead, Scotland	<i>G. Britain</i>
			120	Droitwich, Worcs.	<i>G. Britain</i>
			15	Stagshaw, North'd.	<i>G. Britain</i>
			15	Westerglen, Scotland	<i>G. Britain</i>
15	656	457.3	100	Kharkov, Ukraine	<i>U.S.S.R.</i>
			20	Bolzano	<i>Italy</i>
			80	Florence I	<i>Italy</i>
			80	Naples I	<i>Italy</i>
			45	Turin I	<i>Italy</i>
16	665	451.1	150	Murmansk, Russia	<i>U.S.S.R.</i>
			100	Vilna, Lithuania	<i>U.S.S.R.</i>
17	674	445.1	100	Marseilles I	<i>France</i>
			10	Bodö	<i>Norway</i>
			100	Rostov-on-Don, Russia	<i>U.S.S.R.</i>
18	683	439.2	150	Belgrade I	<i>Yugoslavia</i>
19	692	433.5	10	Nicosia	<i>Cyprus</i>
			150	Moorside Edge, Yorks.	<i>G. Britain</i>
20	701	428	100	Banska Bystrica	<i>Czechoslovakia</i>
			5	Sync. network	<i>Czechoslovakia</i>
			120	Rabat II	<i>Morocco</i>
			20	Finnmark	<i>Norway</i>

Chan.	kc/s	Metres	kW	Station and Country	
21	710	422.5	150	Limoges	<i>France</i>
			150	Stalino, Ukraine	<i>U.S.S.R.</i>
22	719	417.2	120	Lisbon	<i>Portugal</i>
			50	Damascus I	<i>Syria</i>
23	728	412.1	100	Athens	<i>Greece</i>
24	737	407.1	1	Akureyri	<i>Iceland</i>
			20	Jerusalem I	<i>Israel</i>
			50	Katowice	<i>Poland</i>
			50	Seville	<i>Spain</i>
25	746	402.1	120	Hilversum I	<i>Netherlands</i>
26	755	397.4	20	Kuopio	<i>Finland</i>
			50	Lisbon I	<i>Portugal</i>
			50	Timisoara	<i>Rumania</i>
27	764	392.7	150	Sottens	<i>Switzerland</i>
28	773	388.1	50	Cairo I	<i>Egypt</i>
			150	Stockholm	<i>Sweden</i>
29	782	383.6	100	Kiev II, Ukraine	<i>U.S.S.R.</i>
			70	Soviet Forces	<i>Germany</i>
30	791	379.3	150	Rennes I	<i>France</i>
			50	Salonika	<i>Greece</i>
31	800	375	100	Leningrad II, Russia	<i>U.S.S.R.</i>
32	809	370.8	100	Burghead, Scotland	<i>G. Britain</i>
			5	Dundee, Scotland	<i>G. Britain</i>
			20	Redmoss, Scotland	<i>G. Britain</i>
			100	Westerglen, Scotland	<i>G. Britain</i>
33	818	366.7	135	Skoplje	<i>Yugoslavia</i>
			100	Poznan	<i>Poland</i>
34	827	362.8	100	Sofia I	<i>Bulgaria</i>
35	836	358.9	150	Nancy	<i>France</i>
			20	Beirut I	<i>Lebanon</i>
36	845	355	150	Rome I	<i>Italy</i>
37	854	351.3	150	Bucharest I	<i>Rumania</i>
38	863	347.6	150	Paris I	<i>France</i>
39	872	344	150	Moscow III, Russia	<i>U.S.S.R.</i>
40	881	340.5	5	Aberystwyth, Wales	<i>G. Britain</i>
			20	Penmon, Wales	<i>G. Britain</i>
			150	Washford, Som.	<i>G. Britain</i>
			5	Wrexham, Wales	<i>G. Britain</i>
			20	Cetinge	<i>Yugoslavia</i>

Chan.	kc/s	Metres	kW	Station and Country	
41	890	337.1	100	Algiers I	<i>Algeria</i>
				20 Bergen I	<i>Norway</i>
				20 Kristiansand	<i>Norway</i>
				20 Trondheim	<i>Norway</i>
				20 Dniepropetrovsk, Ukraine	<i>U.S.S.R.</i>
42	899	333.7	150	Milan I	<i>Italy</i>
43	908	330.4	150	Brookmans Park, London	<i>G. Britain</i>
44	917	327.2	135	Ljubljana	<i>Yugoslavia</i>
45	926	324	150	Brussels II	<i>Belgium</i>
46	935	320.9	100	Lwow, Ukraine	<i>U.S.S.R.</i>
47	944	317.8	100	Toulouse I	<i>France</i>
				20 Voronezh, Russia	<i>U.S.S.R.</i>
48	953	314.8	150	Morava	<i>Czechoslovakia</i>
49	962	311.9	100	Turku	<i>Finland</i>
				120 Tunis I	<i>Tunisia</i>
50	971	309	70	British Zone	<i>Germany</i>
				50 Izmir	<i>Turkey</i>
				20 Kalinin, Russia	<i>U.S.S.R.</i>
				20 Smolensk, Russia	<i>U.S.S.R.</i>
51	980	306.1	100	Algiers II	<i>Algeria</i>
				150 Goteborg	<i>Sweden</i>
52	989	303.3	10	Rovaniemi	<i>Finland</i>
				70 American Zone	<i>Germany</i>
				20 Beirut II	<i>Lebanon</i>
53	998	300.6	100	Kishinev, Moldavia	<i>U.S.S.R.</i>
54	1,007	297.9	120	Hilversum II	<i>Netherlands</i>
				20 Aleppo I	<i>Syria</i>
55	1,016	295.3	150	Istanbul	<i>Turkey</i>
56	1,025	292.7	100	Graz-Dobl, Brit. Zone	<i>Austria</i>
				20 Jerusalem II	<i>Israel</i>
57	1,034	290.1	10	Turin II	<i>Italy</i>
				40 Lisbon	<i>Portugal</i>
				100 Tallinn, Estonia	<i>U.S.S.R.</i>
58	1,043	287.6	70	U.S.S.R. Zone	<i>Germany</i>
				5 Kalamata	<i>Greece</i>
				20 Agadir I	<i>Morocco</i>
				20 Marrakesh I	<i>Morocco</i>

Chan.	kc/s	Metres	kW	Station and Country	
(58)	(1,043)	(287.6)	20	Ujda I	<i>Morocco</i>
59	1,052	285.2	10	Hartland Pt., Devon	<i>G. Britain</i>
			150	Start Point, Devon	<i>G. Britain</i>
			50	Tripoli	<i>Libya</i>
			5	Focsani	<i>Rumania</i>
			10	Jassy	<i>Rumania</i>
60	1,061	282.8	60	Kalundborg	<i>Denmark</i>
			10	Cagliari	<i>Italy</i>
			15	Lisbon	<i>Portugal</i>
61	1,070	280.4	100	Paris II	<i>France</i>
			20	Krasnodar, Russia	<i>U.S.S.R.</i>
62	1,079	278	50	Breslau	<i>Poland</i>
63	1,088	275.7	10	Korca	<i>Albania</i>
			10	Shkodra	<i>Albania</i>
			150	Droitwich, Worcs.	<i>G. Britain</i>
			20	Norwich, Norfolk	<i>G. Britain</i>
64	1,097	273.5	150	Bratislava	<i>Czechoslovakia</i>
			5	Sync. network	<i>Czechoslovakia</i>
65	1,106	271.2	100	Moghilev, Byelorussia	<i>U.S.S.R.</i>
66	1,115	269.1	50	Bari I	<i>Italy</i>
			50	Bologna I	<i>Italy</i>
			5	San Remo	<i>Italy</i>
			5	Sync. network	<i>Norway</i>
67	1,124	266.9	20	Brussels III	<i>Belgium</i>
			5	Varna	<i>Bulgaria</i>
			20	Viborg, Finno-Karelia	<i>U.S.S.R.</i>
68	1,133	264.8	135	Zagreb	<i>Yugoslavia</i>
69	1,142	262.7	20	Constantine I	<i>Algeria</i>
			40	Oran I	<i>Algeria</i>
			20	Kaliningrad, Russia	<i>U.S.S.R.</i>
70	1,151	260.6	5	Carlisle, Cumberland	<i>G. Britain</i>
			100	Lisnagarvey, N.I.	<i>G. Britain</i>
			5	Londonderry, N.I.	<i>G. Britain</i>
			100	Stagshaw, North'd.	<i>G. Britain</i>
			5	Baia Mare	<i>Rumania</i>
			20	Cluj	<i>Rumania</i>
			5	Oradea	<i>Rumania</i>
71	1,160	258.6	150	Strasbourg I	<i>France</i>
72	1,169	256.6	150	Odessa, Ukraine	<i>U.S.S.R.</i>

Chan.	kc/s	Metres	kW	Station and Country	
73	1,178	254.7	100	Hörby	Sweden
74	1,187	252.7	135	Budapest II	Hungary
75	1,196	250.8	70	French Zone	Germany
			15	Kerkyra	Greece
			20	Agadir II	French Morocco
			20	Marrakesh II	French Morocco
			20	Ujda II	French Morocco
76	1,205	249	100	Bordeaux	France
			5	Haifa	Israel
			10	Lublin	Poland
77	1,214	247.1	5	Ayr, Scotland	G. Britain
			60	Brookmans Park, London	G. Britain
			20	Burghead, Scotland	G. Britain
			5	Dundee, Scotland	G. Britain
			10	Lisnagarvey, N.I.	G. Britain
			1	Londonderry, N.I.	G. Britain
			58	Moorside Edge, Yorks.	G. Britain
			2	Plymouth, Devon	G. Britain
			2	Redmoss, Scotland	G. Britain
			2	Redruth, Cornwall	G. Britain
			10	Stagshaw, North'd.	G. Britain
			50	Westerglen, Scotland	G. Britain
			70	British Forces	Germany
			2	Azores	Portugal
			20	Kursk, Russia	U.S.S.R.
78	1,223	245.3	20	Stara Zagora	Bulgaria
			20	Barcelona	Spain
			100	Falun	Sweden
79	1,232	243.5	5	Budejovice	Czechoslovakia
			25	Cechy-Zapad	Czechoslovakia
			25	Morava-Vychod	Czechoslovakia
			100	Prague II	Czechoslovakia
80	1,241	241.7	50	Vaasa	Finland
			20	Bayonne	France
			20	Clermont-Ferrand	France
			10	Corsica	France
			20	Grenoble	France



Chan.	kc/s	Metres	kW	Station and Country
(80)	(1,241)	(241.7)	20	Le Havre <i>France</i>
			20	Montbeliard <i>France</i>
			20	Nice <i>France</i>
			20	Quimper <i>France</i>
			20	Tiraspol, Moldavia <i>U.S.S.R.</i>
81	1,250	240	5	Lower Egypt <i>Egypt</i>
			10	Nyiregyhaza <i>Hungary</i>
			20	Zalaegerszeg <i>Hungary</i>
			50	Athlone II <i>Eire</i>
82	1,259	238.3	100	Stettin <i>Poland</i>
83	1,268	236.6	135	Belgrade II <i>Yugoslavia</i>
84	1,277	234.9	150	Lille <i>France</i>
85	1,286	233.3	100	Kosice <i>Czechoslovakia</i>
			20	"Radio Catolica" <i>Portugal</i>
86	1,295	231.7	150	Ottringham, Yorks. <i>G. Britain</i>
87	1,304	230.1	20	Constantine II <i>Algeria</i>
			40	Oran II <i>Algeria</i>
			50	Danzig <i>Poland</i>
88	1,313	228.5	100	Stavanger <i>Norway</i>
89	1,322	226.9	100	Ouchgorod, Ukraine <i>U.S.S.R.</i>
90	1,331	225.4	50	Genoa I <i>Italy</i>
			25	Messina <i>Italy</i>
			25	Pescara <i>Italy</i>
			50	Rome II <i>Italy</i>
			25	Venice I <i>Italy</i>
91	1,340	223.9	5	Alexandria <i>Egypt</i>
			150	Crowborough, Sussex <i>G. Britain</i>
			5	Budapest <i>Hungary</i>
			5	Magyaróvát <i>Hungary</i>
			5	Miskolc <i>Hungary</i>
92	1,349	222.4	5	Pecs <i>Hungary</i>
			10	Corsica <i>France</i>
			50	Marseilles II <i>France</i>
			10	Nantes <i>France</i>
			50	Toulouse II <i>France</i>
93	1,358	220.9	20	Kuldiga, Latvia <i>U.S.S.R.</i>
			20	Madona, Latvia <i>U.S.S.R.</i>
			100	Tirana I <i>Albania</i>

Chan.	kc/s	Metres	kW	Station and Country	
94	1,367	219.5	5	Thorshavn	<i>Faroe Islands</i>
			25	Caltanissetta	<i>Italy</i>
			24	Torun	<i>Poland</i>
			5	Oporto	<i>Portugal</i>
95	1,376	218	150	Strasbourg II	<i>France</i>
96	1,385	216.6	100	Madrid I	<i>Spain</i>
			150	Kaunas, Lithuania	<i>U.S.S.R.</i>
97	1,394	215.2	5	Dornbirn, French Zone	<i>Austria</i>
			15	Graz, Brit. Zone	<i>Austria</i>
			5	Innsbrück, French Zone	<i>Austria</i>
			5	Linz, U.S. Zone	<i>Austria</i>
			5	Rhodes	<i>Greece</i>
			20	Sync. network	<i>Sweden</i>
98	1,403	213.8	20	Bayonne	<i>France</i>
			20	Lille II	<i>France</i>
			10	Paris III	<i>France</i>
			20	Quimper	<i>France</i>
			10	Montpellier I	<i>France</i>
			20	Nice II	<i>France</i>
			25	French Forces	<i>Germany</i>
			5	Komotini	<i>Greece</i>
			20	Baranovichi, Byelorussia	<i>U.S.S.R.</i>
99	1,412	212.5	20	Banjaluka	<i>Yugoslavia</i>
			20	Bitolja	<i>Yugoslavia</i>
			20	Maribor	<i>Yugoslavia</i>
			20	Pristina	<i>Yugoslavia</i>
			20	Rijeka	<i>Yugoslavia</i>
			60	Split	<i>Yugoslavia</i>
100	1,421	211.1	20	Sarrebrücken (French Zone)	<i>Germany</i>
			5	Sfax I	<i>Tunisia</i>
101	1,430	209.8	5	Chernigov, Ukraine	<i>U.S.S.R.</i>
			5	Argyrokastros	<i>Albania</i>
			70	Skive	<i>Denmark</i>
			10	Copenhagen	<i>Denmark</i>
102	1,439	208.5	50	Madrid II	<i>Spain</i>
			150	Luxembourg	<i>Luxembourg</i>

Chan.	kc/s	Metres	kW	Station and Country	
103	1,448	207.2	25	Ancona	<i>Italy</i>
				3 Florence II	<i>Italy</i>
				5 Genoa II	<i>Italy</i>
				50 Milan II	<i>Italy</i>
				5 Naples II	<i>Italy</i>
				5 Venice II	<i>Italy</i>
				5 Sync. network	<i>Portugal</i>
104	1,457	205.9	20	Sync. network	<i>Sweden</i>
				60 Bartley, Hants.	<i>G. Britain</i>
				60 Clevedon, Som.	<i>G. Britain</i>
105	1,466	204.6	120	20 Craiova	<i>Rumania</i>
				2 Monte Carlo	<i>Monaco</i>
106	1,475	203.4	2	Sync. network	<i>Norway</i>
				30 Vienna II, U.S.S.R. Zone	<i>Austria</i>
107	1,484	202.2	—	20 Salzburg, U.S. Zone	<i>Austria</i>
				20 Klagenfurt, Brit. Zone	<i>Austria</i>
				Intl. common frequency*	
108	1,493	200.9	60	Sync. network	<i>France</i>
				20 Gomel, Byelorussia	<i>U.S.S.R.</i>
109	1,502	199.7	50	Cracow	<i>Poland</i>
				10 Warsaw II	<i>Poland</i>
				50 Zaragoza	<i>Spain</i>
110	1,511	198.5	20	Brussels IV	<i>Belgium</i>
				5 Chania	<i>Greece</i>
111	1,520	197.4	5	Jihlava	<i>Czechoslovakia</i>
				30 Ostrava	<i>Czechoslovakia</i>
				30 Plzen	<i>Czechoslovakia</i>
112	1,529	196.2	20	Corunna	<i>Spain</i>
				1 Funchal	<i>Madeira Islands</i>
				20 Sync. network	<i>Sweden</i>
113	1,538	195.1	100	Vatican City	<i>Vatican</i>
				70 French Zone	<i>Germany</i>
				5 Sync. network	<i>Spain</i>

\*Shared by : Albania ; Austria ; Belgium ; Cyprus ; Czechoslovakia ; Denmark ; Eire ; Finland ; France ; Germany (British Zone) ; Gibraltar ; Great Britain ; Greece ; Hungary ; Italy ; Lithuania ; Malta ; Morocco ; Norway ; Poland ; Portugal ; Rumania ; Russia ; San Marino ; Spain ; Syria ; Trieste ; Tripoli ; Tunisia ; Ukraine and Yugoslavia. Vatican City is permitted to use this frequency with a power of 5kW until receivers covering 1,529 kc/s are more generally in use.

Chan.	kc/s	Metres	kW	Station and Country	
114	1,546	194.1	—	Sync. network†	<i>G. Britain</i>
			5	Vinnitza, Ukraine	<i>U.S.S.R.</i>
115	1,554	193.1	70	U.S. Forces	<i>Germany</i>
			75	Nice	<i>France</i>
			20	Turi, Estonia	<i>U.S.S.R.</i>
116	1,562	192.1	5	Sync. network	<i>Portugal</i>
			20	Sync. network	<i>Sweden</i>
			5	Sync. network	<i>Switzerland</i>
117	1,570	191.1	70	U.S.S.R. Zone	<i>Germany</i>
			5	Sync. network	<i>Spain</i>
			5	Sfax II	<i>Tunisia</i>
118	1,578	190.1	10	Sync. network	<i>Italy</i>
			10	Fredrikstad	<i>Norway</i>
119	1,586	189.1	70	British Zone	<i>Germany</i>
			5	Sync. network	<i>Spain</i>
120	1,594	188.2	—	Intl. common frequency‡	
121	1,602	187.3	70	U.S. Zone	<i>Germany</i>
			2	Sync. network	<i>Norway</i>
			5	Sync. network	<i>Portugal</i>

†Belfast (5kW); Bournemouth (2); Brighton (5); Bristol (2); Cardiff (2); Dundee (2); Edinburgh (5); Exeter (5); Fareham (2); Glasgow (5); Hull (5); Leeds (5); Liverpool (5); London (20); Manchester (2); Middlesbrough (2); Newcastle-on-Tyne (5); Plymouth (5); Preston (2); Redmoss (2); Redruth (2); Sheffield (2).

‡Shared by: Andorra; Austria; Belgium; Bulgaria; Cyrenaica; Czechoslovakia; Denmark; Eire; Finland; France; Great Britain; Greece; Latvia; Madeira Is.; Morocco (Tangier); Norway; Netherlands; Poland; Portugal; Spain; Switzerland; Syria; Trieste and Yugoslavia.

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

In addition to the frequency at present in use, that allocated at Copenhagen is also given (in parenthesis) for some stations. Transmitters operating on common "national" or "international" frequencies are indicated by N.C.F. or I.C.F. Stations marked with an asterisk (\*) are not included in the "pre-Copenhagen" frequency list as their present power is less than 1kW. Stations included in the Plan but not yet in operation are not listed.

	kc/s	(U.S.S.R. Zone)	kc/s
<b>ALBANIA</b>		Vienna (584)	592
Argyrokastrò	(1,430) 968*	Vienna (1,475)	1,312
Tirana	(1,358) 1,476	<b>BELGIUM</b>	
<b>ALGERIA</b>		Brussels (620)	620
Algiers (890)	941	Brussels (1,511)	868
Algiers (980)	1,113	Brussels (926)	932
Constantine (1,304)	1,446	Brussels (1,124)	1,285
Oran (1,142)	1,420	<b>BULGARIA</b>	
<b>ANDORRA</b>	(1,594) 704	Sofia (593)	767
<b>AUSTRIA</b>		Sofia (827)	850
(British Zone)		Stara Zagora (1,223)	1,402
Graz	567	Varna (1,124)	1,276
Graz (1,025)	886	<b>CYPRUS</b>	
Graz (1,394)	1,285	Lakatamia	1,420
Klagenfurt	565*	<b>CZECHOSLOVAKIA</b>	
Klagenfurt (1,475)	1,285	Banska	
Vienna	868	Bystrica (701)	392
(French Zone)		Bratislava (1,097)	1,004
Dornbirn (1,394)	519	Brno	1,068
Innsbrück (1,394)	519	Budejovice (1,232)	1,366
(U.S. Zone)		Jihlava (1,520)	1,348
Linz	629	Komarov	922
Linz (1,394)	1,294	Kosice	1,204
Salzburg	1,104	Kosice (1,286)	1,485
Salzburg (1,475)	1,267	Morava (953)	922
Vienna	1,068	Ostrava (1,520)	1,158
Vienna	1,429	Plzen (1,520)	514
		Prague (272)	155

<b>Czechoslovakia—cont.</b>		kc/s
Prague	(638)	638
Prague	(1,232)	1,113
<b>DENMARK</b>		
Copenhagen	(1,430)	1,176
Kalundborg	(245)	240
Kalundborg	(1,061)	541
<b>EGYPT</b>		
Alexandria	(1,340)	1,122
Cairo	(773)	620
Cairo	(557)	1,348
<b>EIRE</b>		
Athlone	(566)	565
Cork	(I.C.F.)	1,240
Dublin	(I.C.F.)	1,348
<b>FINLAND</b>		
Helsinki	(557)	1,420
Joensuu	(I.C.F.)	310
Kuopio	(755)	527
Lahti	(254)	160
Oulu	(433)	433
Pori	(I.C.F.)	1,429
Tampere	(I.C.F.)	1,492
Turku	(962)	895
Vaasa	(1,241)	1,522
<b>FRANCE</b>		
Allouis	(164)	182
Bordeaux		968
Bordeaux	(1,205)	1,077
Clermont	(1,241)	1,321
Clermont		1,433
Dijon		1,158
Dijon		1,393
Grenoble	(1,241)	1,393
Le Havre	(1,241)	1,429*
Lille	(1,277)	1,213
Lille	(1,403)	1,393
Limoges	(710)	648
Limoges		1,339
Lyons	(602)	895
Lyons		1,339

<b>France—cont.</b>		kc/s
Marseilles	(674)	749
Marseilles	(1,349)	1,339
Montbéliard	(1,241)	1,068
Montceau les Mines		1,429
Montélimar		1,348
Montpellier	(1,403)	1,393
Nancy	(836)	731
Nancy		1,339
Nantes	(1,349)	1,366
Nice	(1,241)	1,185
Nice	(1,403)	1,393
Nimes		1,068
Paris	(1,403)	592
Paris	(863)	695
Paris	(1,070)	776
Pau		1,158
Perpignan		1,429
Poitiers		1,348
Quimper-		
Quimerch	(1,241)	836
Rennes	(791)	1,040
Rennes		1,393
Rouen-Louvétot		1,456
Strasbourg	(1,160)	859
Strasbourg	(1,376)	1,393
Toulouse	(944)	913
Toulouse	(1,349)	1,339

## **GERMANY**

### *(British Zone)*

Berlin	(1,214)	1,095
Berlin	(1,586)	1,330
Cologne	(971)	904
Elmshorn	(1,214)	1,095
Flensburg	(1,586)	1,330
Hamburg	(971)	904
Hanover	(1,214)	1,095
Hanover	(1,586)	1,330
Herford	(1,214)	1,366

Germany—cont.	kc/s
Langenberg (1,214)	1,095
Norden	658
<i>(French Zone)</i>	
Baden-Baden	827
Coblenz (1,196)	1,031
Freiburg (1,538)	827
Kaiserslautern	530
Saarbrücken (1,421)	1,267
Sigmaringen	827
<i>(U.S. Zone)</i>	
Bayreuth (1,554)	1,411
Berlin	629
Berlin	686
Berlin (1,554)	1,420*
Bremen	530
Bremen (1,554)	1,429*
Frankfurt (1,554)	601
Frankfurt	1,195
Kassel	1,438*
Munich (989)	740
Munich (1,554)	1,249
Nüremberg	950
Stuttgart	574
Stuttgart (1,554)	1,249
<i>(U.S.S.R. Zone)</i>	
Berlin	191
Berlin (1,043)	841
Dresden	1,449
Königswusterhausen	218
Königswusterhausen	(782) 284
Leipzig (782)	722
Leipzig (1,570)	785
Magdeburg	264
Potsdam	564
Schwerin	1,237
Weimar	1,031
<b>GREAT BRITAIN</b>	
Bartley, Hants. (1,457)	1,384

G. Britain—cont.	kc/s
Brookmans Park, London (908)	877
Brookmans Park, London (1,214)	1,149
Burghead, Scotland (809)	767
Burghead, Scotland (1,214)	1,149
Clevedon, Somerset (1,457)	1,384
Crowborough, Sussex (1,340)	1,122
Droitwich, Worcs. (200)	200
Droitwich, Worcs. (647)	583
Droitwich, Worcs. (1,088)	1,013
Lisnagarvey, N. Ireland (1,151)	1,050
Lisnagarvey, N. Ireland (1,214)	1,149
Londonderry, N. Ireland (1,151)	1,050
Londonderry, N. Ireland (1,214)	1,149
Moorside Edge, Yorks. (692)	668
Moorside Edge, Yorks. (1,214)	1,149
Norwich, Norfolk (1,088)	1,013
Ottringham, Yorks. (200)	167
Ottringham, Yorks.	167
Penmon, Wales (881)	804
Plymouth, Devon. (1,214)	1,149

G. Britain—cont.	kc/s	
Redmoss, Scotland	(809)	767
Redmoss, Scotland	(1,214)	1,149
Redruth, Cornwall	(1,214)	1,149
Stagshaw, Northumb.	(1,151)	1,050
Stagshaw, Northumb.	(1,214)	1,149
Start Point, Devon	(1,052)	977
Washford, Somerset	(881)	804
Westerglen, Scotland	(809)	767
Westerglen, Scotland	(1,214)	1,149
Wrexham, Wales	(881)	804
Sync. Network	(1,546)	1,474
<b>GREECE</b>		
Athens	(728)	601
Athens		1,285
Salonica	(791)	807
<b>HUNGARY</b>		
Budapest	(539)	546
Budapest	(1,187)	1,040
Miskolc	(1,340)	1,438
Pecs	(1,340)	1,465
<b>ICELAND</b>		
Eidar	(611)	615
Reykjavik	(182)	182
<b>ISRAEL</b>		
Jerusalem	(1,025)	574
Jerusalem	(737)	677
Jerusalem		789
Tel-Aviv		651

	kc/s	
<b>ITALY</b>		
Ancona	(1,448)	1,429
Bari	(1,115)	1,059
Bologna		1,068
Bologna	(1,115)	1,303
Bolzano	(656)	536
Cagliari	(1,061)	536
Catania	(566)	1,104
Florence	(656)	610
Florence	(1,448)	1,104
Genoa	(1,448)	986
Genoa	(1,331)	1,357
Messina	(1,331)	1,492
Milan	(899)	814
Milan	(1,448)	1,357
Naples	(1,448)	1,068
Naples	(656)	1,312
Palermo	(566)	565
Rome	(845)	713
Rome	(1,331)	1,258
San Remo	(1,115)	1,348
Turin	(656)	986
Turin	(1,034)	1,357
Venice	(1,331)	1,222
<b>LEBANON</b>		
Beirut	(836)	730
<b>LIBYA</b>		
Benghazi		833
<b>LUXEMBOURG</b>		
	(1,439)	232
<b>MONACO</b>		
Monte Carlo	(1,466)	959
<b>MOROCCO, FRENCH</b>		
Fez		1,086
Marrakesh	(1,043)	1,004
Rabat	(611)	601
Rabat	(701)	868
<b>NETHERLANDS</b>		
Beek	(1,594)	1,222
Beek	(1,594)	1,375



<b>Netherlands—cont.</b>		kc/s
Hilversum	(1,007)	722
Hilversum	(746)	995
Hilversum	(1,594)	1,375
Hoogezand	(1,594)	1,222
Hoogezand	(1,594)	1,375
Kootwijk		160
<b>NORWAY</b>		
Bergen	(890)	260
Bergen		355
Bodö	(674)	252
Finnmark	(701)	347
Fredrikstad	(1,578)	1,276
Hamar	(520)	519
Kristiansand	(890)	629
Namsos		961
Notodden		1,294
Oslo	(218)	260
Porsgrunn		1,222
Stavanger	(1,313)	850
Tromsö	(155)	291
Trondheim	(890)	823
Vigra	(629)	629
<b>POLAND</b>		
Breslau	(1,079)	950
Cracow	(1,502)	1,022
Danzig	(1,304)	279
Katowice	(737)	1,231
Lodz	(1,502)	1,339
Poznan	(818)	868
Stettin	(1,259)	1,384
Torun	(1,367)	986
Warsaw	(227)	224
Warsaw	(1,502)	758
<b>PORTUGAL</b>		
Faro		1,330
Lisbon	(719)	629
Lisbon	(755)	722
Lisbon	(1,034)	1,068
Oporto	(1,367)	1,411
<b>RUMANIA</b>		
Brasov	(155)	160

<b>Rumania—cont.</b>		kc/s
Bucharest	(854)	823
Bucharest		1,052
Timisoara	(755)	968
<b>SPAIN</b>		
Barcelona	(1,223)	795
Barcelona		1,104
Bilbao		1,140
Burgos		1,447
Corunna	(1,520)	968
Madrid		686
Madrid	(1,430)	762
Madrid	(1,385)	1,022
San Sebastian		1,068
Seville	(737)	731
Valencia		1,279
Zaragoza	(1,502)	850
<b>SWEDEN</b>		
Falun	(1,223)	1,086
Goteborg	(980)	941
Hörby	(1,178)	1,131
Hudiksvall	(N.C.F.)	1,402
Lulea	(182)	392
Malmö	(N.C.F.)	1,312
Motala	(191)	216
Ostersund	(420)	415
Stockholm	(773)	704
Sundsvall	(593)	601
Umea	(N.C.F.)	1,402
<b>SWITZERLAND</b>		
Beromünster	(529)	556
Geneva		438
Monte Ceneri	(557)	1,167
Sottens	(764)	677
<b>SYRIA</b>		
Aleppo	(1,007)	704
Damascus	(719)	592
<b>TANGIER</b>		
<i>(Intl. Zone)</i>		
Tangier	(I.C.F.)	1,238
<b>TRIESTE</b>		
Trieste	(I.C.F.)	1,140
Trieste	(I.C.F.)	1,420

<b>Trieste—cont.</b>		kc/s
Trieste	(I.C.F.)	1,509
<b>TUNISIA</b>		
Sfax	(1,421)	951
Tunis	(962)	583
Tunis	(629)	823
<b>TURKEY</b>		
Ankara	(182)	182
Istanbul	(1,016)	758
<b>U.S.S.R.</b>		
Dniepropetrovsk,		
Ukraine	(890)	913
Dzhowtchikov,		
Russia		749
Gorki, Russia		566
Kaliningrad,		
Russia	(1,142)	877
Kaunas,		
Lithuania	(1,385)	153
Kaunas,		
Lithuania		832
Kharkov,		
Ukraine	(647)	385
Kiev, Ukraine	(782)	200
Kiev, Ukraine	(209)	248
Kishinev,		
Moldavia	(998)	565
Krasnodar,		
Russia	(1,070)	610
Kuldiga,		
Latvia	(1,349)	1,104
Leningrad,		
Russia	(236)	208
Leningrad, Russia		749
Leningrad,		
Russia	(800)	1,040
Lwow,		
Ukraine	(935)	795
Minsk,		
Byelorussia	(281)	269
Moscow,		
Russia	(173)	174

<b>U.S.S.R.—cont.</b>		kc/s
Moscow, Russia(263)		232
Moscow, Russia(872)		832
Moscow, Russia		950
Murmansk,		
Russia	(656)	648
Odessa,		
Ukraine	(1,169)	968
Petrozavodsk,		
Finno-Karelia	(611)	648
Riga, Latvia	(575)	583
Riga, Latvia		1,258
Rostov-on-Don,		
Russia	(674)	556
Simferopol,		
Russia	(548)	859
Stalino,		
Ukraine	(710)	776
Tallinn,		
Estonia	(1,034)	731
Tartu, Estonia		519
Vilna,		
Lithuania	(665)	536
Voronezh,		
Russia	(944)	356
Voronezh, Russia		814
<b>VATICAN CITY</b>		
	(1,529)	766
<b>YUGOSLAVIA</b>		
Ajdovscina		665
Belgrade	(683)	686
Belgrade	(1,268)	1,273
Cetinge	(881)	1,377
Dubrovnik		1,447
Ljubljana	(917)	527
Maribor	(1,412)	665
Pristina	(1,412)	1,080*
Rijeka	(1,412)	767
Sarajevo	(611)	1,086
Skoplje	(809)	1,240
Zagreb	(1,133)	629

## 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	90.82	10	VUC2	Calcutta <i>India</i>
3.325	90.23	1	YVQL	El Tigre <i>Venezuela</i>
3.335	89.95	5	VUD3	Delhi <i>India</i>
3.335	89.95	5	VUV	Hyderabad <i>India</i>
3.341	89.79	1	YVMW	Carora <i>Venezuela</i>
3.365	89.15	10	VUB2	Bombay <i>India</i>
3.395	88.35	1	—	Colombo <i>Ceylon</i>
3.430	87.46	25	LRS	Buenos Aires <i>Argentina</i>
3.450	86.96	5	—	Johannesburg <i>S. Africa</i>
3.450	86.96	1	YVQI	Barcelona <i>Venezuela</i>
3.480	86.21	1.3	ZOY	Accra <i>Gold Coast</i>
3.480	86.21	1.2	ZQI	Kingston <i>Jamaica</i>
3.495	85.85	10	VUD2	Delhi <i>India</i>
3.505	85.59	1.75	YVKX	Caracas <i>Venezuela</i>
3.510	85.48	5	HLKA	Seoul <i>Korea</i>
3.515	85.35	1	—	Barcelona <i>Venezuela</i>
3.590	83.57	1	YVQA	Cumana <i>Venezuela</i>
3.658	82.01	1	ZEA	Salisbury <i>S. Rhodesia</i>
3.800	78.95	1	ZEB	Bulawayo <i>S. Rhodesia</i>
3.914	76.65	2.5	ZQP	Lusaka <i>N. Rhodesia</i>
4.170	71.94	1	TGOA	Guatemala City <i>Guatemala</i>
4.550	65.93	—	—	Moscow, Russia <i>U.S.S.R.</i>
4.650	64.52	7	HC2AJ	Guayaquil <i>Ecuador</i>
4.777	62.80	2.5	HJGB	Bucaramanga <i>Colombia</i>
4.780	62.76	10	—	Singapore <i>Malaya</i>
4.785	62.70	5	HJAB	Barranquilla <i>Colombia</i>
4.800	62.50	1	—	Johannesburg <i>S. Africa</i>
4.802	62.46	2	YVME	Maracaibo <i>Venezuela</i>
4.820	62.24	5	CE482	Antofagasta <i>Chile</i>

\*British short-wave transmitters are located at Daventry, Northants; Skelton, Cumberland; 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	
4.820	62.24	7.5	—	Lourenco M.	<i>Mozambique</i>
4.820	62.24	1	YVRC	Barcelona	<i>Venezuela</i>
4.825	62.18	1	HJDE	Cali	<i>Colombia</i>
4.825	62.18	10	—	Singapore	<i>Malaya</i>
4.828	62.14	1.3	YVOA	San Cristobal	<i>Venezuela</i>
4.830	62.11	2	EQD	Teheran	<i>Iran</i>
4.835	62.05	2	HJKE	Bogota	<i>Colombia</i>
4.840	61.98	10	VUC2	Calcutta	<i>India</i>
4.842	61.96	1.5	YVOI	Valera	<i>Venezuela</i>
4.845	61.92	1	CSX2	Ponta Delgada	<i>Azores</i>
4.848	61.90	1	HJGF	Bucaramanga	<i>Colombia</i>
4.850	61.86	20	VUD11	Delhi	<i>India</i>
4.850	61.86	1.5	VQG1	Nairobi	<i>Kenya</i>
4.860	61.73	5	VUD3	Delhi	<i>India</i>
4.856	61.78	1	HJCA	Bogota	<i>Colombia</i>
4.865	61.66	2	PRC5	Belem	<i>Brazil</i>
4.865	61.66	1	HJFA	Pereira	<i>Colombia</i>
4.878	61.50	7.5	YVKF	Caracas	<i>Venezuela</i>
4.880	61.48	10	VUB2	Bombay	<i>India</i>
4.885	61.41	5	HJDP	Medellin	<i>Colombia</i>
4.890	61.35	4.7	YVKB	Caracas	<i>Venezuela</i>
4.895	61.29	2.5	PRF6	Manaos	<i>Brazil</i>
4.895	61.29	3	HJCH	Bogota	<i>Colombia</i>
4.895	61.29	5	—	Johannesburg	<i>S. Africa</i>
4.897	61.22	11	ZOH	Colombo	<i>Ceylon</i>
4.901	61.21	1	HJAG	Barranquilla	<i>Colombia</i>
4.911	61.09	1.3	ZOY	Accra	<i>Gold Coast</i>
4.920	60.98	10	VUM2	Madras	<i>India</i>
4.920	60.98	5	YVKR	Caracas	<i>Venezuela</i>
4.926	60.89	—	VLI	Sydney, N.S.W.	<i>Australia</i>
4.930	60.85	7.5	CR7AB	Lourenco M.	<i>Mozambique</i>
4.948	60.64	1	HJCW	Bogota	<i>Colombia</i>
4.950	60.61	1.2	ZQI	Kingston	<i>Jamaica</i>
4.959	60.50	2.5	HJCQ	Bogota	<i>Colombia</i>
4.960	60.48	10	VUD2	Delhi	<i>India</i>
4.965	60.20	1	HJAE	Cartagena	<i>Colombia</i>
4.994	60.07	5	YVMO	Barquisimeto	<i>Venezuela</i>
5.020	59.76	10	YVKO	Caracas	<i>Venezuela</i>
5.057	59.33	2.5	YVKD	Caracas	<i>Venezuela</i>

Mc/s	Metres	kW	Call	Station and Country	
5.060	59.29	7	TFI	Reykjavik	<i>Iceland</i>
5.080	59.06	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.790	51.81	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.805	51.64	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.871	51.10	1	TIGPH	San Jose	<i>Costa Rica</i>
5.883	50.99	5	—	Cape Town	<i>S. Africa</i>
5.894	50.90	15	OAX4Z	Lima	<i>Peru</i>
5.899	50.85	25	HVJ	Vatican City	<i>Vatican City</i>
5.920	50.68	2	HRA	Tegucigalpa	<i>Honduras Rep.</i>
5.920	50.68	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.927	50.62	—	—	Yakutsk, Siberia	<i>U.S.S.R.</i>
5.943	50.48	1	—	Godthaab	<i>Greenland</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	50.26	7.5	HI2T	Monsenor Nouel	<i>Dom. Rep.</i>
5.970	50.26	—	—	Ashkhabad, Turkmen.	<i>U.S.S.R.</i>
5.980	50.17	25	—	Andorra	<i>Andorra</i>
5.980	50.17	1	ZFY	Georgetown	<i>Brit. Guiana</i>
5.980	50.17	1	YSW2	Santa Ana	<i>Salvador</i>
5.986	50.12	5	LR51	Buenos Aires	<i>Argentina</i>
5.994	50.05	2.5	HSPP	Bangkok	<i>Siam</i>
5.995	50.04	5	PRI3	Belo Horizonte	<i>Brazil</i>
5.995	50.04	1	HCJB	Quito	<i>Ecuador</i>
6.000	50.00	1	HI1X	Ciudad Trujillo	<i>Dom. Rep.</i>
6.000	50.00	1	DZH4	Manila	<i>Philippines</i>
6.000	50.00	—	RNE	Moscow, Russia	<i>U.S.S.R.</i>
6.006	49.95	50	CNR3	Rabat	<i>Fr. Morocco</i>
6.007	49.94	5	—	Johannesburg	<i>S. Africa</i>
6.010	49.92	1	CJCX	Sydney, N.S.	<i>Canada</i>
6.010	49.92	5	CE601	Antofagasta	<i>Chile</i>
6.010	49.92	30	OLR2A	Podebrady	<i>Czechoslovakia</i>
6.010	49.92	—	GRB	Overseas Service*	<i>G. Britain</i>
6.010	49.92	10	VUC2	Calcutta	<i>India</i>
6.010	49.92	5	VUD3	Delhi	<i>India</i>
6.010	49.92	2.5	XEOI	Mexico City	<i>Mexico</i>
6.010	49.92	1	OAX4Q	Lima	<i>Peru</i>
6.010	49.92	—	—	Moscow, Russia	<i>U.S.S.R.</i>

Mc/s	Metres	kW	Call	Station and Country
6.015	49.88	5	PRA8	Recife <i>Brazil</i>
6.020	49.83	—	—	Kiev, Ukraine <i>U.S.S.R.</i>
6.024	49.80	2.5	FZI	Brazzaville <i>Fr. Eq. Africa</i>
6.025	49.79	5	PGD	Huizen <i>Netherlands</i>
6.030	49.75	30	OLR2B	Podebrady <i>Czechoslovakia</i>
6.030	49.75	10	—	Stuttgart, U.S. Zone <i>Germany</i>
6.030	49.75	1	—	Rome <i>Italy</i>
6.030	49.75	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.035	49.71	7.5	—	Rangoon <i>Burma</i>
6.035	49.71	—	GWS	Overseas Service* <i>G. Britain</i>
6.035	49.71	25	—	Monte Carlo <i>Monaco</i>
6.035	49.71	1	CXA30	Montevideo <i>Uruguay</i>
6.040	49.67	10	—	Algiers <i>Algeria</i>
6.040	49.67	1	CE604	Antofagasta <i>Chile</i>
6.040	49.67	5	COBF	Havana <i>Cuba</i>
6.040	49.67	50	WRUA	Boston, Mass. <i>U.S.A.</i>
6.040	49.67	50	WRUL	Boston, Mass. <i>U.S.A.</i>
6.040	49.67	50	WRUS	Boston, Mass. <i>U.S.A.</i>
6.040	49.67	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.045	49.63	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.050	49.59	1	H11N	Cuidad Trujillo <i>Dom. Rep.</i>
6.050	49.59	—	GSA	Overseas Service* <i>G. Britain</i>
6.050	49.59	—	—	Tiflis, Georgia <i>U.S.S.R.</i>
6.055	49.55	2.5	HJEX	Cali <i>Colombia</i>
6.055	49.55	5	CXA14	Colonia <i>Uruguay</i>
6.060	49.50	50	CKRZ	Sackville, N.B. <i>Canada</i>
6.060	49.50	—	GSX	Overseas Service* <i>G. Britain</i>
6.060	49.50	20	VUD11	Delhi <i>India</i>
6.060	49.50	10	—	Kuala Lumpur <i>Malaya</i>
6.060	49.50	50	WCBX	Brentwood, N.Y. <i>U.S.A.</i>
6.060	49.50	10	WCDA	Brentwood, N.Y. <i>U.S.A.</i>
6.060	49.50	50	WCRC	Brentwood, N.Y. <i>U.S.A.</i>
6.060	49.50	50	KNBA	Dixon, Cal. <i>U.S.A.</i>
6.060	49.50	100	KWID	San Francisco, Cal. <i>U.S.A.</i>
6.060	49.50	50	KWIX	San Francisco, Cal. <i>U.S.A.</i>
6.060	49.50	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.065	49.46	25	LRS1	Buenos Aires <i>Argentina</i>

Mc/s	Metres	kW	Call	Station and Country
6.065	49.46	5	VU7MC	Akashvani <i>India</i>
6.065	49.46	1.2	FIQA	Tananarive <i>Madagascar</i>
6.065	49.46	12	SBO	Motala <i>Sweden</i>
6.067	49.45	1.5	—	Tetuan <i>Sp. Morocco</i>
6.070	49.42	1	CFRX	Toronto, Ontario <i>Canada</i>
6.070	49.42	5	--	Berlin (R.F.), U.S.S.R. Zone <i>Germany</i>
6.070	49.42	—	GRR	Overseas Service* <i>G. Britain</i>
6.070	49.42	—	--	Petropavlovsk, Russia <i>U.S.S.R.</i>
6.075	49.38	7.5	—	Colombo <i>Ceylon</i>
6.075	49.38	7.5	—	Karachi <i>Pakistan</i>
6.075	49.38	—	--	Moscow, Russia <i>U.S.S.R.</i>
6.075	49.38	2.5	CXA3	Montevideo <i>Uruguay</i>
6.080	49.34	85	--	Munich, U.S. Zone <i>Germany</i>
6.080	49.34	7.5	ZL1	Wellington <i>New Zealand</i>
6.080	49.34	50	WLWK	Cincinnati, Ohio <i>U.S.A.</i>
6.080	49.34	200	WLWL	Cincinnati, Ohio <i>U.S.A.</i>
6.080	49.34	75	WLWO	Cincinnati, Ohio <i>U.S.A.</i>
6.080	49.34	200	WLWR	Cincinnati, Ohio <i>U.S.A.</i>
6.080	49.34	200	WLWS	Cincinnati, Ohio <i>U.S.A.</i>
6.081	49.34	3	—	Tirana <i>Albania</i>
6.085	49.30	50	LRY1	Buenos Aires <i>Argentina</i>
6.085	49.30	5	ZYK2	Recife <i>Brazil</i>
6.085	49.30	10	VUM2	Madras <i>India</i>
6.085	49.30	50	—	Milan <i>Italy</i>
6.090	49.26	—	VLI2	Sydney, N.S.W. <i>Australia</i>
6.090	49.26	50	CKOB	Sackville, N.B. <i>Canada</i>
6.090	49.26	7.5	CBFW	Vercheres, Quebec <i>Canada</i>
6.090	49.26	—	GWM	Overseas Service* <i>G. Britain</i>
6.090	49.26	2	—	Beirut <i>Lebanon</i>
6.090	49.26	6	LXA	Luxembourg <i>Luxembourg</i>
6.090	49.26	1	OAX4G	Lima <i>Peru</i>
6.090	49.26	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.095	49.22	5	ZYB7	Sao Paulo <i>Brazil</i>
6.096	49.21	10	—	Hanton <i>China</i>
6.100	49.18	2.5	HJFK	Pereira <i>Colombia</i>

Mc/s	Metres	kW	Call	Station and Country
6.100	49.18	1	TGOA	Guatemala City <i>Guatemala</i>
6.100	49.18	20	VUD10	Delhi <i>India</i>
6.100	49.18	50	WNBI	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	50	WNRA	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	50	WNRE	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	50	WNRI	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	50	WNRX	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	50	WRCA	Bound Brook, N.J. <i>U.S.A.</i>
6.100	49.18	10	YUA	Belgrade <i>Yugoslavia</i>
6.105	49.14	5	PRE9	Fortaleza <i>Brazil</i>
6.110	49.10	5	CP2	La Paz <i>Bolivia</i>
6.110	49.10	—	GSL	Overseas Service* <i>G. Britain</i>
6.110	49.10	5	VUD3	Delhi <i>India</i>
6.110	49.10	1	—	Tangier, Intl. Zone <i>Morocco</i>
6.113	49.07	1	WLKS	Kure (A.F.) <i>Japan</i>
6.115	49.06	30	OLR2C	Podebrady <i>Czechoslovakia</i>
6.115	49.06	25	—	Hamburg, Br. Zone <i>Germany</i>
6.120	49.02	1	LRX1	Buenos Aires <i>Argentina</i>
6.120	49.02	10	OIX1	Helsinki <i>Finland</i>
6.120	49.02	100	KRHO	Honolulu <i>Hawaii</i>
6.120	49.02	50	WCBN	Brentwood, N.Y. <i>U.S.A.</i>
6.120	49.02	50	WCBX	Brentwood, N.Y. <i>U.S.A.</i>
6.120	49.02	10	WCDA	Brentwood, N.Y. <i>U.S.A.</i>
6.120	49.02	50	WCRC	Brentwood, N.Y. <i>U.S.A.</i>
6.120	49.02	50	WOOC	Wayne, N.J. <i>U.S.A.</i>
6.120	49.02	50	WOOW	Wayne, N.J. <i>U.S.A.</i>
6.125	48.98	—	GWA	Overseas Service* <i>G. Britain</i>
6.127	48.96	10	LKJ2	Tromsø <i>Norway</i>
6.130	48.94	—	VLX	Perth, W.A. <i>Australia</i>
6.130	48.94	1	COCD	Havana <i>Cuba</i>
6.130	48.94	1	VPD2	Suva <i>Fiji Islands</i>
6.130	48.94	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.135	48.90	7.5	—	Levkosia <i>Cyprus</i>
6.140	48.86	50	OTC	Leopoldville <i>Belg. Congo</i>
6.140	48.86	50	WBOS	Boston, Mass. <i>U.S.A.</i>
6.140	48.86	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.140	48.86	10	—	Belgrade <i>Yugoslavia</i>



Mc/s	Metres	kW	Call	Station and Country	
6.143	48.84	35	BEF6	Chungking	China
6.145	48.82	10	LRR	Rosario	Argentina
6.145	48.82	5	HJDE	Medellin	Colombia
6.150	48.78	2	VLR2	Lyndhurst, Vic.	Australia
6.150	48.78	2	CKRO	Winnipeg, Manitoba	Canada
6.150	48.78	5	CE615	Valparaiso	Chile
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	—	Maracaibo	Venezuela
6.152	48.76	5	CE615	Santiago	Chile
6.154	48.75	10	CS2WD	Lisbon	Portugal
6.155	48.74	2	EQB	Teheran	Iran
6.155	48.74	1	XEEP	Mexico City	Mexico
6.155	48.74	5	CXA13	Montevideo	Uruguay
6.160	48.70	50	CHAC	Sackville, N.B.	Canada
6.160	48.70	5	HJCD	Bogota	Colombia
6.160	48.70	1	—	Nuremberg, U.S. Zone	Germany
6.160	48.70	—	—	Moscow, Russia	U.S.S.R.
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	100	HER3	Schwarzenburg	Switzerland
6.170	48.62	7.5	—	Levkosia	Cyprus
6.170	48.62	30	OLR2D	Podebrady	Czechoslovakia
6.170	48.62	100	—	Munich, U.S. Zone	Germany
6.170	48.62	5	VUV	Hyderabad	India
6.170	48.62	1	YSHW	San Salvador	Salvador
6.170	48.62	50	WCBN	Brentwood, N.Y.	U.S.A.
6.170	48.62	50	WCBX	Brentwood, N.Y.	U.S.A.
6.170	48.62	10	WCDA	Brentwood, N.Y.	U.S.A.
6.170	48.62	50	WCRC	Brentwood, N.Y.	U.S.A.
6.170	48.62	50	WOOC	Wayne, N.J.	U.S.A.
6.170	48.62	50	WOOW	Wayne, N.J.	U.S.A.
6.174	48.59	1	CXA21	Montevideo	Uruguay
6.175	48.58	100	—	Allouis	France

Mc/s	Metres	kW	Call	Station and Country	
6.175	48.58	7.5	—	Athens	Greece
6.180	48.54	10	LRM	Mendoza	Argentina
6.180	48.54	10	—	Stuttgart, U.S. Zone	Germany
6.180	48.54	—	GRO	Overseas Service*	G. Britain
6.180	48.54	—	—	Ashkhabad, Turkmen.	U.S.S.R.
6.185	48.50	8	LLI	Fredrikstad	Norway
6.190	48.47	1.5	—	Athlone	Eire
6.190	48.47	1	—	Frankfurt, U.S. Zone	Germany
6.190	48.47	100	VUD7	Delhi	India
6.190	48.47	50	KGEI	Belmont, Cal.	U.S.A.
6.190	48.47	50	WNRI	Bound Brook, N.J.	U.S.A.
6.190	48.47	50	WNRX	Bound Brook, N.J.	U.S.A.
6.190	48.47	50	WGEA	Schenectady, N.Y.	U.S.A.
6.190	48.47	100	WGEO	Schenectady, N.Y.	U.S.A.
6.190	48.47	—	—	Moscow, Russia	U.S.S.R.
6.190	48.47	25	HVJ	Vatican City	Vatican City
6.195	48.43	—	GRN	Overseas Service*	G. Britain
6.195	48.43	5	LLJ	Oslo	Norway
6.195	48.43	—	—	Moscow, Russia	U.S.S.R.
6.200	48.39	5	—	Ruiselede	Belgium
6.200	48.39	100	—	Allouis	France
6.200	48.39	1	—	Bolivar	Venezuela
6.210	48.31	5	—	Bucharest	Rumania
6.213	48.29	10	HJCT	Bogota	Colombia
6.215	48.27	7.5	—	Warsaw	Poland
6.220	48.23	5	CE622	Santiago	Chile
6.225	48.19	6	HJFB	Manizales	Colombia
6.235	48.12	1	TGJA	Guatemala City	Guatemala
6.247	48.01	2	—	Budapest	Hungary
6.250	48.00	5	CE625	Santiago	Chile
6.255	47.96	1	YSUA	San Salvador	Salvador
6.275	47.81	1	YSR	San Salvador	Salvador
6.290	47.69	2.5	ZPA1'	Asuncion	Paraguay
6.295	47.66	3	OTM1	Leopoldville	Belg. Congo
6.320	47.47	1	COCW	Havana	Cuba

Mc/s	Metres	kW	Call	Station and Country
6.320	47.47	1	—	Baden Baden, Fr. Zone <i>Germany</i>
6.332	47.38	1	TGTA	Guatemala City <i>Guatemala</i>
6.345	47.28	25	HEI2	Schwarzenburg <i>Switzerland</i>
6.350	47.24	1	OAX4H	Lima <i>Peru</i>
6.360	47.17	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.400	46.88	1	TGQA	Quezaltenango <i>Guatemala</i>
6.404	46.84	1	BEF	Kumming <i>China</i>
6.440	46.57	1	TGWB	Guatemala City <i>Guatemala</i>
6.450	46.48	1	COHI	Havana <i>Cuba</i>
6.675	44.94	25	HBQ	Geneva <i>Switzerland</i>
6.700	44.78	1	TIEP	San Jose <i>Costa Rica</i>
6.700	44.78	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.760	44.38	1	ZNR	Aden <i>Arabia</i>
6.760	44.38	1	YNVP	Managua <i>Nicaragua</i>
6.770	44.31	7.5	—	Singapore <i>Malaya</i>
6.776	44.28	1	HNU	Baghdad <i>Iraq</i>
6.790	44.18	7.5	—	Levkosia <i>Cyprus</i>
6.825	43.96	—	—	Tashkent, Uzbek <i>U.S.S.R.</i>
6.830	43.92	—	—	Tel Aviv <i>Israel</i>
6.990	42.92	—	—	Galilee <i>Israel</i>
6.993	42.90	1	CQM4	Bissao <i>Port. Guinea</i>
7.000	42.86	50	WGEA	Schenectady, N.Y. <i>U.S.A.</i>
7.000	42.86	100	WGEO	Schenectady, N.Y. <i>U.S.A.</i>
7.001	42.86	1.5	FZI	Brazzaville <i>Fr. Eq. Africa</i>
7.006	42.83	1	FET1	Valladolid <i>Spain</i>
7.007	42.82	10	BEF9	Kweiyang <i>China</i>
7.015	42.76	1	CSX2	Ponta Delgada <i>Azores</i>
7.035	42.64	3	EAJ3	Valencia <i>Spain</i>
7.060	42.49	1	EA9AA	Tangier, Intl. Zone <i>Morocco</i>
7.075	42.40	—	GRS	Overseas Service* <i>G. Britain</i>
7.092	42.30	1	YI5KG	Baghdad <i>Iraq</i>
7.100	42.25	35	BEF6	Chungking <i>China</i>
7.120	42.13	—	GRM	Overseas Service* <i>G. Britain</i>
7.150	41.96	—	GRT	Overseas Service* <i>G. Britain</i>
7.150	41.96	—	—	Erivan, Armenia <i>U.S.S.R.</i>
7.153	41.95	10	BEF6	Chungking <i>China</i>

M/c/s	Metres	kW	Call	Station and Country	
7.160	41.89	12	THA	Algiers	Algeria
7.165	41.87	—	—	Moscow, Russia	U.S.S.R.
7.175	41.82	1	CR6AA	Lobito	Angola
7.185	41.76	—	GRK	Overseas Service*	G. Britain
7.200	41.67	—	GWZ	Overseas Service*	G. Britain
7.200	41.67	10	—	Singapore	Malaya
7.200	41.67	—	—	Moscow, Russia	U.S.S.R.
7.210	41.61	—	GWL	Overseas Service*	G. Britain
7.210	41.61	10	VUC2	Calcutta	India
7.210	41.61	20	VUD11	Delhi	India
7.210	41.61	2	—	Beirut	Lebanon
7.210	41.61	8	LLS	Tromsø	Norway
7.210	41.61	25	HEI3	Schwarzenburg	Switzerland
7.210	41.61	—	—	Moscow, Russia	U.S.S.R.
7.214	41.59	2.5	—	Rabat	Fr. Morocco
7.215	41.58	10	VLQ2	Brisbane, Qld.	Australia
7.215	41.58	—	—	Moscow, Russia	U.S.S.R.
7.223	41.46	3	BED9	Taipei	China
7.230	41.49	—	GSW	Overseas Service*	G. Britain
7.230	41.49	100	KWID	San Francisco, Cal.	U.S.A.
7.230	41.49	50	KWIX	San Francisco, Cal.	U.S.A.
7.235	41.46	—	—	Moscow, Russia	U.S.S.R.
7.240	41.44	10	VLQ	Brisbane, Qld.	Australia
7.240	41.44	100	—	Realtort	France
7.240	41.44	10	VUB2	Bombay	India
7.240	41.44	7.5	VUD8	Delhi	India
7.240	41.44	5	LLR	Oslo	Norway
7.245	41.41	—	—	Moscow, Russia	U.S.S.R.
7.250	41.38	3	PJC1	Willemstad	Curacao
7.250	41.38	85	—	Munich, U.S. Zone	Germany
7.250	41.38	—	GWI	Overseas Service*	G. Britain
7.250	41.38	1	—	Rome	Italy
7.250	41.38	50	KGEI	Belmont, Cal.	U.S.A.
7.258	41.33	5	JKN	Tokio	Japan
7.260	41.32	6	OZQ	Copenhagen	Denmark
7.260	41.32	—	GSU	Overseas Service*	G. Britain
7.260	41.32	10	VUM2	Madras	India
7.265	41.29	1	HC1BF	Quito	Ecuador

Mc/s	Metres	kW	Call	Station and Country	
7.270	41.27	5	VUD3	Delhi	India
7.270	41.27	1	—	Rome	Italy
7.270	41.27	—	—	Moscow, Russia	U.S.S.R.
7.275	41.24	20	EAJ43	Teneriffe	Canary Is.
7.275	41.24	7.5	—	Monsenor Nouel	Dominican Rep.
7.275	41.24	100	VUD10	Delhi	India
7.280	41.21	100	VLA	Shepparton, Vic.	Australia
7.280	41.21	50	VLC8	Shepparton, Vic.	Australia
7.280	41.21	2	VLT	Port Moresby	Br. 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.
7.285	41.18	5	JKJ	Tokio	Japan
7.285	41.18	2.5	ZQP	Lusaka	N. Rhodesia
7.290	41.15	25	—	Hamburg, Br. Zone	Germany
7.290	41.15	25	—	Munich, U.S. Zone	Germany
7.290	41.15	100	VUD5	Delhi	India
7.290	41.15	20	VUD11	Delhi	India
7.295	41.12	1.3	ZOY	Accra	Gold Coast
7.295	41.12	—	—	Moscow, Russia	U.S.S.R.
7.298	41.11	10	—	Athens	Greece
7.300	41.10	5	—	Ruiselede	Belgium
7.300	41.10	—	—	Moscow, Russia	U.S.S.R.
7.320	40.98	—	—	Moscow, Russia	U.S.S.R.
7.325	40.96	—	GRJ	Overseas Service*	G. Britain
7.330	40.93	—	—	Moscow, Russia	U.S.S.R.
7.340	40.87	—	—	Leningrad, Russia	U.S.S.R.
7.350	40.80	25	—	Monte Carlo	Monaco
7.360	40.76	25	HET3	Schwarzenburg	Switzerland
7.360	40.76	—	RWG	Moscow, Russia	U.S.S.R.
7.380	40.65	25	HEK3	Schwarzenburg	Switzerland
7.390	40.60	—	—	Moscow, Russia	U.S.S.R.
7.410	40.49	—	—	Moscow, Russia	U.S.S.R.
7.430	40.38	3	—	Korce	Albania

Mc/s	Metres	kW	Call	Station and Country
7.611	39.42	100	—	Berlin (R.F.), U.S.S.R. Zone <i>Germany</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>
7.947	37.75	1	CQM7	Bissao <i>Port. Guinea</i>
7.950	37.74	1.2	FET	Alicante <i>Spain</i>
8.000	37.50	3	PMD	Bandoeng, Java <i>Indonesia</i>
8.037	37.33	2	FXE	Beirut <i>Lebanon</i>
8.050	37.27	—	—	Moscow, Russia <i>U.S.S.R.</i>
8.170	36.72	—	—	Haifa <i>Israel</i>
8.213	36.53	—	—	Moscow, Russia <i>U.S.S.R.</i>
8.215	36.52	3	—	Scutari <i>Albania</i>
8.240	36.39	1	—	Addis Ababa <i>Ethiopia</i>
8.264	36.30	3	—	Shkodra <i>Albania</i>
8.665	34.62	1	COJK	Camaguey <i>Cuba</i>
8.705	34.46	5	COCO	Havana <i>Cuba</i>
8.825	34.00	5	COCQ	Havana <i>Cuba</i>
8.910	33.67	—	—	Moscow, Russia <i>U.S.S.R.</i>
8.955	33.50	1.2	COKG	Santiago <i>Cuba</i>
9.015	33.28	2	CNR3	Rabat <i>Fr. Morocco</i>
9.025	33.24	1	COBZ	Havana <i>Cuba</i>
9.045	33.17	—	—	Leningrad, Russia <i>U.S.S.R.</i>
9.045	33.17	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.060	33.11	7	TFK	Reykjavik <i>Iceland</i>
9.175	32.65	2.5	ZQP	Lusaka <i>N. Rhodesia</i>
9.185	32.66	25	HEF4	Schwarzenburg <i>Switzerland</i>
9.197	32.62	5	CE920	Punta Arenas <i>Chile</i>
9.235	32.48	1	COBQ	Havana <i>Cuba</i>
9.255	32.41	4	—	Bucharest <i>Rumania</i>
9.270	32.36	1	COCX	Havana <i>Cuba</i>
9.286	32.29	1	CP25	La Paz <i>Bolivia</i>
9.310	32.22	1	HC2AK	Guayaquil <i>Ecuador</i>
9.320	32.19	25	LRS	Buenos Aires <i>Argentina</i>

Mc/s	Metres	kW	Call	Station and Country	
9.340	32.12	25	—	Andorra	<i>Andorra</i>
9.350	32.10	25	HBL	Geneva	<i>Switzerland</i>
9.363	32.04	1	COBC	Havana	<i>Cuba</i>
9.368	32.02	40	—	Madrid	<i>Spain</i>
9.380	31.98	50	OTM2	Leopoldville	<i>Belg. Congo</i>
9.400	31.91	5	LZC	Sofia	<i>Bulgaria</i>
9.410	31.88	—	GRI	Overseas Service*	<i>G. Britain</i>
9.420	31.85	50	—	Belgrade	<i>Yugoslavia</i>
9.435	31.80	5	COCH	Havana	<i>Cuba</i>
9.435	31.80	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.440	31.78	50	FZI	Brazzaville	<i>Fr. Eq. Africa</i>
9.450	31.75	10	—	Kweiyang	<i>China</i>
9.451	31.75	10	LRY1	Buenos Aires	<i>Argentina</i>
9.465	31.70	20	TAP	Ankara	<i>Turkey</i>
9.470	31.68	1	CR6RN	Loando	<i>Angola</i>
9.480	31.65	5	—	Ruiselede	<i>Belgium</i>
9.480	31.65	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.490	31.61	5	CP38	La Paz	<i>Bolivia</i>
9.490	31.61	50	WCBX	Brentwood, N.Y.	<i>U.S.A.</i>
9.490	31.61	10	WCDA	Brentwood, N.Y.	<i>U.S.A.</i>
9.490	31.61	50	WCRC	Brentwood, N.Y.	<i>U.S.A.</i>
9.490	31.61	50	KNBA	Dixon, Cal.	<i>U.S.A.</i>
9.490	31.61	50	KNBI	Dixon, Cal.	<i>U.S.A.</i>
9.490	31.61	50	WOOW	Wayne, N.J.	<i>U.S.A.</i>
9.494	31.59	25	—	Monte Carlo	<i>Monaco</i>
9.500	31.58	—	VLI3	Sydney, N.S.W.	<i>Australia</i>
9.500	31.58	12	PRF5	Marapicu	<i>Brazil</i>
9.500	31.58	15	OIX2	Lahti	<i>Finland</i>
9.500	31.58	10	XEWW	Mexico City	<i>Mexico</i>
9.500	31.58	—	—	Minsk, Byelorussia	<i>U.S.S.R.</i>
9.504	31.57	30	OLR3B	Podebrady	<i>Czechoslovakia</i>
9.505	31.57	15	JBD	Tokio	<i>Japan</i>
9.505	31.57	1	HOLA	Colon	<i>Panama</i>
9.507	31.56	10	—	Belgrade	<i>Yugoslavia</i>
9.510	31.55	—	GSB	Overseas Service*	<i>G. Britain</i>
9.520	31.51	2	VLW7	Perth, W.A.	<i>Australia</i>
9.520	31.51	1	CP6	La Paz	<i>Bolivia</i>
9.520	31.51	2	VLT	Port Moresby	<i>Br. New Guinea</i>

Mc/s	Metres	kW	Call	Station and Country
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	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	200	WLWL	Cincinnati, Ohio <i>U.S.A.</i>
9.523	31.50	5	—	Johannesburg <i>S. Africa</i>
9.525	31.50	—	GWJ	Overseas Service* <i>G. Britain</i>
9.525	31.50	100	WGEO	Schenectady, N.Y. <i>U.S.A.</i>
9.526	31.49	7.5	SP13	Warsaw <i>Poland</i>
9.528	31.49	5	—	Luxembourg <i>Luxembourg</i>
9.530	31.48	3	ZDJ4	Bathurst <i>Gambia</i>
9.530	31.48	100	KRHO	Honolulu <i>Hawaii</i>
9.530	31.48	10	VUC2	Calcutta <i>India</i>
9.530	31.48	50	KGEI	Belmont, Cal. <i>U.S.A.</i>
9.530	31.48	50	WNRE	Bound Brook, N.J. <i>U.S.A.</i>
9.530	31.48	50	WGEA	Schenectady, N.Y. <i>U.S.A.</i>
9.535	31.46	1	VPD2	Suva <i>Fiji Islands</i>
9.535	31.46	10	—	Tromsö <i>Norway</i>
9.535	31.46	12	SBU	Motala <i>Sweden</i>
9.535	31.46	25	HER4	Schwarzenburg <i>Switzerland</i>
9.539	31.45	25	HEI4	Schwarzenburg <i>Switzerland</i>
9.540	31.45	2	VLR	Lyndhurst, Vic. <i>Australia</i>
9.540	31.45	100	VLB	Shepparton, Vic. <i>Australia</i>
9.540	31.45	50	VLC5	Shepparton, Vic. <i>Australia</i>
9.540	31.45	100	—	Allouis <i>France</i>
9.540	31.45	50	—	Munich, U.S. Zone <i>Germany</i>
9.540	31.45	7.5	ZL2	Wellington <i>New Zealand</i>
9.540	31.45	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.543	31.43	1	YSLI	San Salvador <i>Salvador</i>
9.545	31.43	7.5	—	Rangoon <i>Burma</i>
9.545	31.43	—	—	Petropavlovsk, Russia <i>U.S.S.R.</i>
9.547	31.42	5	LKJ	Tromsö <i>Norway</i>
9.550	31.41	30	OLR3A	Podebrady <i>Czechoslovakia</i>
9.550	31.41	100	—	Allouis <i>France</i>
9.550	31.41	—	GWB	Overseas Service* <i>G. Britain</i>



M/c/s	Metres	kW	Call	Station and Country
9.550	31.41	10	VUB2	Bombay <i>India</i>
9.550	31.41	3	YDD3	Batavia, Java <i>Indonesia</i>
9.550	31.41	5	YDQ2	Macassar, Celebes <i>Indonesia</i>
9.550	31.41	50	KGEI	Belmont, Cal. <i>U.S.A.</i>
9.550	31.41	50	WRUA	Boston, Mass. <i>U.S.A.</i>
9.550	31.41	50	WGEA	Schenectady, N.Y. <i>U.S.A.</i>
9.550	31.41	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.550	31.41	25	HVJ	Vatican City <i>Vatican City</i>
9.555	31.40	15	OIX2	Lahti <i>Finland</i>
9.560	31.38	100	—	Les Essarts <i>France</i>
9.560	31.38	5	JBD2	Tokio <i>Japan</i>
9.562	31.37	10	OAX4T	Lima <i>Peru</i>
9.565	31.36	1	—	Linz, U.S. Zone <i>Austria</i>
9.565	31.36	15	ZYK3	Recife <i>Brazil</i>
9.565	31.36	100	VUD5	Delhi <i>India</i>
9.565	31.36	1	XETT	Mexico City <i>Mexico</i>
9.565	31.36	12	FHE4	Dakar <i>Senegal</i>
9.565	31.36	—	—	Komsomolsk, Siberia <i>U.S.S.R.</i>
9.570	31.35	10	—	Algiers <i>Algeria</i>
9.570	31.35	—	GWX	Overseas Service* <i>G. Britain</i>
9.570	31.35	7.5	VUD8	Delhi <i>India</i>
9.570	31.35	50	WBOS	Boston, Mass. <i>U.S.A.</i>
9.570	31.35	20	WRUW	Boston, Mass. <i>U.S.A.</i>
9.570	31.35	100	KWID	San Francisco, Cal. <i>U.S.A.</i>
9.570	31.35	50	KWIX	San Francisco, Cal. <i>U.S.A.</i>
9.575	31.33	2.5	—	Rabat <i>Fr. Morocco</i>
9.580	31.32	10	VLH3	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 M. <i>Mozambique</i>
9.590	31.28	30	PCJ	Huizen <i>Netherlands</i>
9.590	31.28	50	WCBX	Brentwood, N.Y. <i>U.S.A.</i>
9.590	31.28	10	WCDA	Brentwood, N.Y. <i>U.S.A.</i>
9.590	31.28	50	WCRC	Brentwood, N.Y. <i>U.S.A.</i>
9.590	31.28	50	WLWK	Cincinnati, Ohio <i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country	
9.590	31.28	200	WLWL	Cincinnati, Ohio	U.S.A.
9.590	31.28	75	WLWO	Cincinnati, Ohio	U.S.A.
9.590	31.28	200	WLWR	Cincinnati, Ohio	U.S.A.
9.590	31.28	200	WLWS	Cincinnati, Ohio	U.S.A.
9.593	31.27	2	CE960	Santiago	Chile
9.595	31.27	1.5	—	Athlone	Eire
9.600	31.25	12	PRF5	Marapicu	Brazil
9.600	31.25	—	GRY	Overseas Service*	G. Britain
9.600	31.25	—	—	Leningrad, Russia	U.S.S.R.
9.605	31.24	7.5	—	Athens	Greece
9.605	31.24	5	JKL2	Yamato (A.F.)	Japan
9.605	31.24	—	—	Moscow, Russia	U.S.S.R.
9.606	31.23	5	—	Cape Town	S. Africa
9.607	31.23	1	HP5J	Panama City	Panama
9.610	31.22	10	—	Algiers	Algeria
9.610	31.22	2	VLW5	Perth, W.A.	Australia
9.610	31.22	25	ZYC8	Rio de Janeiro	Brazil
9.610	31.22	50	CHLS	Sackville, N.B.	Canada
9.610	31.22	7.5	CBFX	Vercheres, Quebec	Canada
9.610	31.22	100	LLG	Fredrikstad	Norway
9.610	31.22	—	—	Moscow, Russia	U.S.S.R.
9.615	31.20	100	VLA2	Shepparton, Vic.	Australia
9.615	31.20	100	VLB9	Shepparton, Vic.	Australia
9.615	31.20	50	VLC6	Shepparton, Vic.	Australia
9.615	31.20	5	XERQ	Mexico City	Mexico
9.619	31.19	2.5	TIPG	San Jose	Costa Rica
9.620	31.19	25	—	Realtort	France
9.620	31.19	100	VUD5	Delhi	India
9.620	31.19	—	—	Moscow, Russia	U.S.S.R.
9.620	31.19	2	CXA6	Montevideo	Uruguay
9.625	31.17	1	ETA	Addis Ababa	Ethiopia
9.625	31.17	—	GWO	Overseas Service*	G. Britain
9.625	31.17	10	XEBT	Mexico City	Mexico
9.630	31.15	50	CKLO	Sackville, N.B.	Canada
9.630	31.15	7.5	CBFO	Vercheres, Quebec	Canada
9.630	31.15	10	VUB2	Bombay	India
9.630	31.15	20	VUD10	Delhi	India
9.630	31.15	50	—	Milan	Italy

Mc/s	Metres	kW	Call	Station and Country	
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	COX4	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	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.640	31.12	3	CXA8	Colonia	<i>Uruguay</i>
9.640	31.12	10	YVKC	Caracas	<i>Venezuela</i>
9.642	31.11	25	HVJ4	Vatican City	<i>Vatican City</i>
9.650	31.09	100	VLB2	Shepparton, Vic.	<i>Australia</i>
9.650	31.09	7.5	—	Levkosia	<i>Cyprus</i>
9.650	31.09	50	WCBN	Brentwood, N.Y.	<i>U.S.A.</i>
9.650	31.09	50	WCBX	Brentwood, N.Y.	<i>U.S.A.</i>
9.650	31.09	10	WCDA	Brentwood, N.Y.	<i>U.S.A.</i>
9.650	31.09	50	WCRC	Brentwood, N.Y.	<i>U.S.A.</i>
9.650	31.09	50	KNBA	Dixon, Cal.	<i>U.S.A.</i>
9.650	31.09	50	KNBI	Dixon, Cal.	<i>U.S.A.</i>
9.650	31.09	50	WOOC	Wayne, N.J.	<i>U.S.A.</i>
9.650	31.09	50	WOOW	Wayne, N.J.	<i>U.S.A.</i>
9.650	31.09	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.652	31.08	10	CR7BJ	Lourenco M.	<i>Mozambique</i>
9.655	31.07	5	JKI2	Tokio	<i>Japan</i>
9.655	31.07	25	HED6	Schwarzenburg	<i>Switzerland</i>
9.660	31.06	10	—	Algiers	<i>Algeria</i>
9.660	31.06	25	LRX	Buenos Aires	<i>Argentina</i>
9.660	31.06	10	VLQ3	Brisbane, Qld.	<i>Australia</i>
9.660	31.06	35	BEF8	Chungking	<i>China</i>
9.660	31.06	—	GWP	Overseas Service*	<i>G. Britain</i>
9.660	31.06	20	VUD11	Delhi	<i>India</i>
9.660	31.06	7.5	HOXC	Panama City	<i>Panama</i>
9.660	31.06	12	—	Motala	<i>Sweden</i>
9.660	31.06	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.660	31.06	25	HVJ4	Vatican City	<i>Vatican City</i>
9.665	31.04	5	ORR	Ruiselede	<i>Belgium</i>
9.665	31.04	25	HEU3	Schwarzenburg	<i>Switzerland</i>
9.670	31.02	30	OLR3C	Podebrady	<i>Czechoslovakia</i>
9.670	31.02	5	VUD3	Delhi	<i>India</i>

Mc/s	Metres	kW	Call	Station and Country
9.670	31.02	50	KGEI	Belmont, Cal. U.S.A.
9.670	31.02	100	WNBI	Bound Brook, N.J. U.S.A.
9.670	31.02	50	WNRA	Bound Brook, N.J. U.S.A.
9.670	31.02	50	WNRE	Bound Brook, N.J. U.S.A.
9.670	31.02	50	WNRI	Bound Brook, N.J. U.S.A.
9.670	31.02	50	WNRX	Bound Brook, N.J. U.S.A.
9.670	31.02	100	WRCA	Bound Brook, N.J. U.S.A.
9.670	31.02	25	WGEX	Schenectady, N.Y. U.S.A.
9.670	31.02	—	—	Moscow, Russia U.S.S.R.
9.675	31.01	—	GWT	Overseas Service* G. Britain
9.680	30.99	10	VLG8	Lyndhurst, Vic. Australia
9.680	30.99	100	VLA3	Shepparton, Vic. Australia
9.680	30.99	50	VLC2	Shepparton, Vic. Australia
9.680	30.99	100	—	Allouis France
9.680	30.99	10	VUD2	Delhi India
9.680	30.99	7	EQC	Teheran Iran
9.680	30.99	1	XEQQ	Mexico City Mexico
9.680	30.99	—	—	Moscow, Russia U.S.S.R.
9.685	30.97	1	BEE4	Canton China
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
9.695	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	50	WRUA	Boston, Mass. U.S.A.
9.700	30.93	50	WRUS	Boston, Mass. U.S.A.
9.700	30.93	20	WRUW	Boston, Mass. U.S.A.
9.700	30.93	50	WNRI	Bound Brook, N.J. U.S.A.
9.700	30.93	200	WLWL	Cincinnati, Ohio U.S.A.
9.700	30.93	200	WLWR	Cincinnati, Ohio U.S.A.
9.700	30.93	200	WLWS	Cincinnati, Ohio U.S.A.
9.700	30.93	200	KCBR	Delano, Cal. U.S.A.
9.700	30.93	50	WOOW	Wayne, N.J. U.S.A.
9.710	30.90	—	—	Moscow, Russia U.S.S.R.
9.720	30.86	50	PRL7	Rio de Janeiro Brazil

Mc/s	Metres	kW	Call	Station and Country	
9.720	30.86	—	—	Leningrad, Russia	U.S.S.R.
9.727	30.84	12	—	Leipzig, U.S.S.R.	Zone Germany
9.727	30.84	10	CS2M4	Lisbon	Portugal
9.730	30.83	10	CE970	Valparaiso	Chile
9.730	30.83	2	BEA8	Nanking	China
9.735	30.82	7.5	HI2T	Monsenor Nouel	Dominican Rep.
9.740	30.80	—	—	Moscow, Russia	U.S.S.R.
9.747	30.78	10	CR7BE	Lourenco M.	Mozambique
9.750	30.77	1	BEM6	Lanchow	China
9.750	30.77	50	WNRA	Bound Brook, N.J.	U.S.A.
9.750	30.77	50	WNRI	Bound Brook, N.J.	U.S.A.
9.750	30.77	50	WNRX	Bound Brook, N.J.	U.S.A.
9.750	30.77	200	WLWL	Cincinnati, Ohio	U.S.A.
9.750	30.77	50	KCBA	Delano, Cal.	U.S.A.
9.750	30.77	50	KCBF	Delano, Cal.	U.S.A.
9.750	30.77	200	KCBR	Delano, Cal.	U.S.A.
9.750	30.77	50	KNBI	Dixon, Cal.	U.S.A.
9.760	30.74	10	TGWA	Guatemala City	Guatemala
9.760	30.74	—	—	Moscow, Russia	U.S.S.R.
9.768	30.71	50	OTC2	Leopoldville	Belg. Congo
9.770	30.71	1	PRL4	Rio de Janeiro	Brazil
9.780	30.67	—	—	Moscow, Russia	U.S.S.R.
9.785	30.66	25	—	Monte Carlo	Monaco
9.800	30.61	—	—	Moscow, Russia	U.S.S.R.
9.820	30.55	2	—	Budapest	Hungary
9.825	30.54	—	GRH	Overseas Service*	G. Britain
9.825	30.54	—	—	Moscow, Russia	U.S.S.R.
9.832	30.51	40	EAQ	Madrid	Spain
9.833	30.51	1	COBL	Havana	Cuba
9.870	30.40	1	—	Johannesburg	S. Africa
9.880	30.36	—	—	Moscow, Russia	U.S.S.R.
9.900	30.30	—	—	Moscow, Russia	U.S.S.R.
9.915	30.26	—	GRU	Overseas Service*	G. Britain
9.940	30.18	1	HNF	Baghdad	Iraq
9.960	30.12	3	—	Tirana	Albania

Mc/s	Metres	kW	Call	Station and Country	
9.968	30.10	1	HCJB	Quito	Ecuador
9.984	30.04	1.5	FZI	Brazzaville	Fr. Eq. Africa
10.030	29.91	2	—	Budapest	Hungary
10.055	29.83	10	SUV	Cairo	Egypt
10.060	29.82	—	PLY	Batavia, Java	Indonesia
10.205	29.40	—	—	Moscow, Russia	U.S.S.R.
10.220	29.35	12	PSH	Marapicu	Brazil
10.260	29.24	10	—	Peiping	China
10.350	28.99	10	LQA5	Buenos Aires	Argentina
10.365	28.94	3	PLS	Batavia, Java	Indonesia
10.395	28.83	25	HED4	Schwarzenburg	Switzerland
10.660	28.14	—	—	Moscow, Russia	U.S.S.R.
10.730	27.96	5	VQG3	Nairobi	Kenya
10.780	27.83	12	SDB2	Motala	Sweden
11.000	27.27	3	PLB9	Batavia, Java	Indonesia
11.030	27.20	10	CS2MK	Lisbon	Portugal
11.035	27.19	1	CR6RA	Lobito	Angola
11.090	27.05	1	CS9MB	Ponta Delgada	Azores
11.117	26.99	—	—	Moscow, Russia	U.S.S.R.
11.440	26.22	3	PLO	Batavia, Java	Indonesia
11.500	26.09	1	BEL7	Hankow	China
11.630	25.79	—	—	Leningrad, Russia.	U.S.S.R.
11.670	25.71	50	OTC3	Leopoldville	Belg. Congo
11.677	25.69	—	WBU6	Tangier, Intl. Zone	Morocco
11.680	25.68	—	GRG	Overseas Service*	G. Britain
11.680	25.68	50	HVJ	Vatican City	Vatican City
11.682	25.68	1	HJCQ	Bogota	Colombia
11.690	25.66	5	BEB5	Shanghai	China
11.695	25.65	1	HP5A	Panama City	Panama
11.700	25.64	100	—	Allouis	France
11.700	25.64	—	GWV	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	SBP	Motala	Sweden
11.705	25.63	200	WLWS	Cincinnati, Ohio	U.S.A.
11.710	25.62	10	VLG3	Lyndhurst, Vic.	Australia
11.710	25.62	100	VLA4	Shepparton, Vic.	Australia

Mc/s	Metres	kW	Call	Station and Country	
11.710	25.62	100	—	Allouis	<i>France</i>
11.710	25.62	5	—	Johannesburg	<i>S. Africa</i>
11.710	25.62	50	WLWK	Cincinnati, Ohio	<i>U.S.A.</i>
11.710	25.62	200	WLWL	Cincinnati, Ohio	<i>U.S.A.</i>
11.710	25.62	75	WLWO	Cincinnati, Ohio	<i>U.S.A.</i>
11.710	25.62	200	WLWR	Cincinnati, Ohio	<i>U.S.A.</i>
11.710	25.62	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.715	25.61	25	HEI5	Schwarzenburg	<i>Switzerland</i>
11.720	25.60	7.5	OTM4	Leopoldville	<i>Belg. Congo</i>
11.720	25.60	5	—	Ruiselede	<i>Belgium</i>
11.720	25.60	50	PRL8	Rio de Janeiro	<i>Brazil</i>
11.720	25.60	7.5	CBFL	Vercheres, Quebec	<i>Canada</i>
11.720	25.60	50	CHOL	Sackville, N.B.	<i>Canada</i>
11.720	25.60	2	CKRX	Winnipeg, Manitoba	<i>Canada</i>
11.720	25.60	7.5	—	Levkosia	<i>Cyprus</i>
11.720	25.60	—	—	Kiev, Ukraine	<i>U.S.S.R.</i>
11.725	25.59	50	WRUL	Boston, Mass.	<i>U.S.A.</i>
11.725	25.59	20	WRUW	Boston, Mass.	<i>U.S.A.</i>
11.730	25.58	10	LRA3	Buenos Aires	<i>Argentina</i>
11.730	25.58	100	—	Allouis	<i>France</i>
11.730	25.58	—	GVV	Overseas Service*	<i>G. Britain</i>
11.730	25.58	5	PHI	Huizen	<i>Netherlands</i>
11.730	25.58	50	KGEI	Belmont, Cal.	<i>U.S.A.</i>
11.730	25.58	100	KGEX	Belmont, Cal.	<i>U.S.A.</i>
11.730	25.58	50	WRUA	Boston, Mass.	<i>U.S.A.</i>
11.730	25.58	50	WRUS	Boston, Mass.	<i>U.S.A.</i>
11.735	25.56	1	CR6RC	Lobito	<i>Angola</i>
11.735	25.56	8	LKQ	Fredrikstad	<i>Norway</i>
11.735	25.56	5	CXA7	Montevideo	<i>Uruguay</i>
11.740	25.55	100	VLB10	Shepparton, Vic.	<i>Australia</i>
11.740	25.55	4	CE1174	Santiago	<i>Chile</i>
11.740	25.55	15	COCY	Havana	<i>Cuba</i>
11.740	25.55	1.5	—	Athlone	<i>Eire</i>
11.740	25.55	—	WRUX	Boston, Mass.	<i>U.S.A.</i>
11.740	25.55	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.740	25.55	25	HVJ3	Vatican City	<i>Vatican City</i>
11.750	25.53	—	GSD	Overseas Service*	<i>G. Britain</i>
11.750	25.53	—	—	Komsomolsk, Siberia	<i>U.S.S.R.</i>

Mc/s	Metres	kW	Call	Station and Country
11.750	25.53	—	—	Leningrad, Russia U.S.S.R.
11.750	25.53	—	—	Moscow, Russia U.S.S.R.
11.760	25.51	10	VLG10	Lyndhurst, Vic. Australia
11.760	25.51	100	VLA8	Shepparton, Vic. Australia
11.760	25.51	100	VLB3	Shepparton, Vic. Australia
11.760	25.51	50	VLC3	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	Dehli India
11.765	25.50	10	—	Algiers Algeria
11.765	25.50	25	ZYB8	Sao Paulo Brazil
11.765	25.50	5	—	Oslo Norway
11.770	25.49	100	VLA4	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	Batavia, Java Indonesia
11.770	25.49	50	WNRA	Bound Brook, N.J. U.S.A.
11.770	25.49	200	KCBR	Delano, Cal. U.S.A.
11.770	25.49	50	KNBI	Dixon, Cal. U.S.A.
11.770	25.49	50	WGEA	Schenectady, N.Y. U.S.A.
11.775	25.48	25	HE16	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
11.790	25.45	100	VUD5	Delhi India
11.790	25.45	50	WRUA	Boston, Mass. U.S.A.
11.790	25.45	50	WRUL	Boston, Mass. U.S.A.
11.790	25.45	50	WRUS	Boston, Mass. U.S.A.
11.790	25.45	20	WRUW	Boston, Mass. U.S.A.
11.790	25.45	50	WNRA	Bound Brook, N.J. U.S.A.
11.790	25.45	75	WLWO	Cincinnati, Ohio U.S.A.
11.790	25.45	50	KNBI	Dixon, Cal. U.S.A.
11.790	25.45	50	KNBX	Dixon, Cal. U.S.A.
11.800	25.42	—	GWH	Overseas Service* G. Britain



Mc/s	Metres	kW	Call	Station and Country	
11.805	25.41	6	OZG	Kalundborg	Denmark
11.805	25.41	1	HC2FW	Guayaquil	Ecuador
11.810	25.40	100	VLB4	Shepparton, Vic.	Australia
11.810	25.40	50	VLC7	Shepparton, Vic.	Australia
11.810	25.40	1	CE1180	Santiago	Chile
11.810	25.40	50	—	Milan	Italy
11.810	25.40	7.5	HOXB	Panama City	Panama
11.810	25.40	200	KCBF	Delano, Cal.	U.S.A.
11.810	25.40	50	WGEA	Schenectady, N.Y.	U.S.A.
11.810	25.40	50	WOOW	Wayne, N.J.	U.S.A.
11.815	25.39	25	HEU5	Schwarzenburg	Switzerland
11.820	25.38	—	GSN	Overseas Service*	G. Britain
11.820	25.38	—	—	Tel Aviv	Israel
11.820	25.38	—	—	Moscow, Russia	U.S.S.R.
11.830	25.36	2	VLW3	Perth, W.A.	Australia
11.830	25.36	10	VUD4	Delhi	India
11.830	25.36	50	WNRX	Bound Brook, N.J.	U.S.A.
11.830	25.36	50	WCBN	Brentwood, N.Y.	U.S.A.
11.830	25.36	50	WCBX	Brentwood, N.Y.	U.S.A.
11.830	25.36	10	WCDA	Brentwood, N.Y.	U.S.A.
11.830	25.36	50	WCRC	Brentwood, N.Y.	U.S.A.
11.830	25.36	50	WOOC	Wayne, N.J.	U.S.A.
11.830	25.36	50	WOOW	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	10	VLG4	Lyndhurst, 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	CSW5	Lisbon	Portugal
11.845	25.33	25	—	Muret	France
11.847	25.33	50	WGEA	Schenectady, N.Y.	U.S.A.
11.847	25.33	100	WGEO	Schenectady, N.Y.	U.S.A.
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

Mc/s	Metres	kW	Call	Station and Country	
11.850	25.32	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.852	25.31	8	LLK	Fredrikstad	<i>Norway</i>
11.857	25.30	2.5	—	Rabat	<i>Fr. Morocco</i>
11.860	25.30	—	GSE	Overseas Service*	<i>G. Britain</i>
11.865	25.28	1.2	ZPA3	Asuncion	<i>Paraguay</i>
11.865	25.28	100	HER5	Schwarzenburg	<i>Switzerland</i>
11.870	25.27	50	VLC3	Shepparton, Vic.	<i>Australia</i>
11.870	25.27	50	--	Munich, U.S. Zone	<i>Germany</i>
11.870	25.27	7.5	VUD9	Delhi	<i>India</i>
11.870	25.27	50	WBOS	Boston, Mass.	<i>U.S.A.</i>
11.870	25.27	50	WNRA	Bound Brook, N.J.	<i>U.S.A.</i>
11.870	25.27	100	KWID	San Francisco, Cal.	<i>U.S.A.</i>
11.870	25.27	50	KWIX	San Francisco, Cal.	<i>U.S.A.</i>
11.870	25.27	50	WOOC	Wayne, N.J.	<i>U.S.A.</i>
11.870	25.27	50	WOOW	Wayne, N.J.	<i>U.S.A.</i>
11.875	25.26	30	OLR4C	Podebrady	<i>Czechoslovakia</i>
11.875	25.26	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.877	25.26	5	LRS2	Buenos Aires	<i>Argentina</i>
11.880	25.25	10	—	Algiers	<i>Algeria</i>
11.880	25.25	10	LRR	Rosario	<i>Argentina</i>
11.880	25.25	10	VLG5	Lyndhurst, Vic.	<i>Australia</i>
11.880	25.25	10	VLH4	Lyndhurst, Vic.	<i>Australia</i>
11.880	25.25	7.5	—	Singapore	<i>Malaya</i>
11.880	25.25	1	XEHH	Mexico City	<i>Mexico</i>
11.885	25.24	25	--	Muret	<i>France</i>
11.885	25.24	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.885	25.24	—	--	Petropavlovsk, Russia	<i>U.S.S.R.</i>
11.890	25.23	100	KRHO	Honolulu	<i>Hawaii</i>
11.890	25.23	20	VUD	Delhi	<i>India</i>
11.890	25.23	7.5	—	Dacca	<i>Pakistan</i>
11.890	25.23	50	—	Manila	<i>Philippines</i>
11.890	25.23	50	WNRA	Bound Brook, N.J.	<i>U.S.A.</i>
11.890	25.23	50	WNRE	Bound Brook, N.J.	<i>U.S.A.</i>
11.890	25.23	50	WNRI	Bound Brook, N.J.	<i>U.S.A.</i>
11.890	25.23	50	WNRX	Bound Brook, N.J.	<i>U.S.A.</i>
11.890	25.23	50	KWIX	San Francisco, Cal.	<i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country
11.890	25.23	—	—	Moscow, Russia U.S.S.R.
11.893	25.22	5	—	Ruiselede Belgium
11.893	25.22	50	WNBI	Bound Brook, N.J. U.S.A.
11.893	25.22	50	WRCA	Bound Brook, N.J. U.S.A.
11.895	25.22	1	VPD2	Suva Fiji Islands
11.895	25.22	12	FHE3	Dakar Senegal
11.900	25.21	10	VLG9	Lyndhurst, Vic. Australia
11.900	25.21	50	CKEX	Sackville, N.B. Canada
11.900	25.21	5	CE1190	Valparaiso Chile
11.900	25.21	30	OLR4D	Podebrady Czechoslovakia
11.900	25.21	7.5	HI2T	Monsenor Nouel Dominican Rep.
11.900	25.21	100	KWID	San Francisco, Cal. U.S.A.
11.900	25.21	—	—	Moscow, Russia U.S.S.R.
11.900	25.21	20	CXA10	Montevideo Uruguay
11.915	25.18	35	BEF7	Chungking China
11.930	25.15	—	GVX	Overseas Service* G. Britain
11.930	25.15	—	—	Moscow, Russia U.S.S.R.
11.940	25.13	12	CNR2	Rabat Fr. Morocco
11.940	25.13	—	—	Moscow, Russia U.S.S.R.
11.950	25.10	5	ZPA5	Encarnacion Paraguay
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
12.003	24.99	5	CE1180	Santiago Chile
12.020	24.96	—	—	Moscow, Russia U.S.S.R.
12.040	24.92	—	GRV	Overseas Service* G. Britain
12.060	24.88	—	—	Moscow, Russia U.S.S.R.
12.080	24.83	12	PST	Marapicu Brazil
12.095	24.80	—	GRF	Overseas Service* G. Britain
12.116	24.76	12	THA1	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	HCBJ	Quito Ecuador

Mc/s	Metres	kW	Call	Station and Country	
12.542	23.92	—	—	Moscow, Russia	<i>U.S.S.R.</i>
12.750	23.53	1	CS2MP	Lisbon	<i>Portugal</i>
12.865	23.32	10	CS2WJ	Lisbon	<i>Portugal</i>
12.989	23.09	—	—	Moscow, Russia	<i>U.S.S.R.</i>
13.050	22.99	50	WNRI	Bound Brook, N.J.	<i>U.S.A.</i>
14.400	20.85	25	—	Andorra	<i>Andorra</i>
14.462	20.74	25	HBZ3	Geneva	<i>Switzerland</i>
14.538	20.64	25	HBZ2	Geneva	<i>Switzerland</i>
14.560	20.60	50	WNRX	Bound Brook, N.J.	<i>U.S.A.</i>
14.660	20.46	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.040	19.95	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.055	19.93	1	ETA	Addis Ababa	<i>Ethiopia</i>
15.070	19.91	—	GWC	Overseas Service*	<i>G. Britain</i>
15.075	19.90	1	ZFY	Georgetown	<i>Brit. Guiana</i>
15.085	19.89	—	—	Moscow, Russia	<i>U.S.S.R.</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>
15.095	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	14	EPB	Teheran	<i>Iran</i>
15.100	19.87	10	CS2MQ	Lisbon	<i>Portugal</i>
15.104	19.86	2.5	—	Rabat	<i>Fr. Morocco</i>
15.105	19.86	85	—	Munich, U.S. Zone	<i>Germany</i>
15.110	19.85	—	GWG	Overseas Service*	<i>G. Britain</i>
15.110	19.85	—	—	Petropavlovsk, Russia	<i>U.S.S.R.</i>
15.114	19.85	10	HCJB	Quito	<i>Ecuador</i>
15.120	19.84	100	—	Colombo	<i>Ceylon</i>
15.120	19.84	1.5	—	Athlone	<i>Eire</i>
15.120	19.84	50	—	Milan	<i>Italy</i>
15.120	19.84	25	HED7	Schwarzenburg	<i>Switzerland</i>
15.120	19.84	25	HVJ2	Vatican City	<i>Vatican City</i>
15.130	19.83	20	VUD11	Delhi	<i>India</i>
15.130	19.83	50	WRUA	Boston, Mass.	<i>U.S.A.</i>
15.130	19.83	50	WRUL	Boston, Mass.	<i>U.S.A.</i>
15.130	19.83	50	WRUS	Boston, Mass.	<i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country	
15.130	19.83	20	WRUW	Boston, Mass.	<i>U.S.A.</i>
15.130	19.83	50	KCBA	Delano, Cal.	<i>U.S.A.</i>
15.130	19.83	200	KCBR	Delano, Cal.	<i>U.S.A.</i>
15.130	19.83	50	KNBI	Dixon, Cal.	<i>U.S.A.</i>
15.130	19.83	200	WLWL	Cincinnati, Ohio	<i>U.S.A.</i>
15.130	19.83	200	WLWR	Cincinnati, Ohio	<i>U.S.A.</i>
15.130	19.83	200	WLWS	Cincinnati, Ohio	<i>U.S.A.</i>
15.130	19.83	50	WOOC	Wayne, N.J.	<i>U.S.A.</i>
15.140	19.81	—	GSF	Overseas Service*	<i>G. Britain</i>
15.145	19.81	15	ZYK2	Recife	<i>Brazil</i>
15.150	19.80	3	YDC	Batavia, Java	<i>Indonesia</i>
15.150	19.80	10	OAX4R	Lima	<i>Peru</i>
15.150	19.80	50	WNBI	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	50	WNRA	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	50	WNRE	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	50	WNRI	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	50	WNRX	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	50	WRCA	Bound Brook, N.J.	<i>U.S.A.</i>
15.150	19.80	200	KCBR	Delano, Cal.	<i>U.S.A.</i>
15.155	19.79	25	ZYB9	Sao Paulo	<i>Brazil</i>
15.155	19.79	17	OLR5C	Podebrady	<i>Czechoslovakia</i>
15.155	19.79	12	SBT	Motala	<i>Sweden</i>
15.160	19.79	100	VLB11	Shepparton, Vic.	<i>Australia</i>
15.160	19.79	1	VPD2	Suva	<i>Fiji Islands</i>
15.160	19.79	100	VUD7	Delhi	<i>India</i>
15.160	19.79	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.165	19.78	10	—	Algiers	<i>Algeria</i>
15.165	19.78	50	OTC4	Leopoldville	<i>Belg. Congo</i>
15.165	19.78	10	PRE9	Fortaleza	<i>Brazil</i>
15.165	19.78	50	OZH	Copenhagen	<i>Denmark</i>
15.170	19.78	10	TGWA	Guatemala City	<i>Guatemala</i>
15.170	19.78	20	VUD10	Delhi	<i>India</i>
15.170	19.78	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.175	19.77	35	BEF8	Chungking	<i>China</i>
15.175	19.77	10	LLH	Tromsö	<i>Norway</i>
15.180	19.76	—	GSO	Overseas Service*	<i>G. Britain</i>
15.190	19.75	50	CKCX	Sackville, N.B.	<i>Canada</i>
15.190	19.75	7.5	CBFZ	Vercheres, Quebec	<i>Canada</i>

Mc/s	Metres	kW	Call	Station and Country
15.190	19.75	85	OIX4	Pori <i>Finland</i>
15.190	19.75	100	VUD5	Delhi <i>India</i>
15.190	19.75	50	WNBI	Bound Brook, N.J. <i>U.S.A.</i>
15.190	19.75	50	WNRA	Bound Brook, N.J. <i>U.S.A.</i>
15.190	19.75	50	WNRE	Bound Brook, N.J. <i>U.S.A.</i>
15.190	19.75	50	WNRI	Bound Brook, N.J. <i>U.S.A.</i>
15.190	19.75	50	WNRX	Bound Brook, N.J. <i>U.S.A.</i>
15.190	19.75	50	WRCA	Bound Brook, N.J. <i>U.S.A.</i>
15.195	19.74	20	TAQ	Ankara <i>Turkey</i>
15.200	19.74	10	VLG11	Lyndhurst, Vic. <i>Australia</i>
15.200	19.74	100	VLA6	Shepparton, Vic. <i>Australia</i>
15.200	19.74	100	VLB6	Shepparton, Vic. <i>Australia</i>
15.200	19.74	50	VLC	Shepparton, Vic. <i>Australia</i>
15.200	19.74	50	WRUA	Boston, Mass. <i>U.S.A.</i>
15.200	19.74	200	WLWS	Cincinnati, Ohio <i>U.S.A.</i>
15.200	19.74	50	WOOC	Wayne, N.J. <i>U.S.A.</i>
15.210	19.72	10	VLG3	Lyndhurst, Vic. <i>Australia</i>
15.210	19.72	10	VLG11	Lyndhurst, Vic. <i>Australia</i>
15.210	19.72	50	VLC11	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	KGEI	Belmont, Cal. <i>U.S.A.</i>
15.210	19.72	100	KGEX	Belmont, Cal. <i>U.S.A.</i>
15.210	19.72	50	WBOS	Boston, Mass. <i>U.S.A.</i>
15.210	19.72	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.220	19.71	50	VLC4	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	50	WRUA	Boston, Mass. <i>U.S.A.</i>
15.225	19.70	17	OLR5A	Podebrady <i>Czechoslovakia</i>
15.225	19.70	15	JBD3	Tokio <i>Japan</i>
15.230	19.70	10	VLG6	Lyndhurst, Vic. <i>Australia</i>
15.230	19.70	10	VLH5	Lyndhurst, Vic. <i>Australia</i>
15.230	19.70	100	VLA5	Shepparton, Vic. <i>Australia</i>
15.230	19.70	200	WLWL	Cincinnati, Ohio <i>U.S.A.</i>
15.230	19.70	—	—	Komsomolsk, Siberia <i>U.S.S.R.</i>
15.230	19.70	—	—	Moscow, Russia <i>U.S.S.R.</i>

Mc/s	Metres	kW	Call	Station and Country
15.235	19.69	5	JBD4	Tokio <i>Japan</i>
15.240	19.69	10	VLG6	Lyndhurst, Vic. <i>Australia</i>
15.240	19.69	100	—	Allouis <i>France</i>
15.240	19.69	50	KCBA	Delano, Cal. <i>U.S.A.</i>
15.240	19.69	10	—	Belgrade <i>Yugoslavia</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	WBOS	Boston, Mass. <i>U.S.A.</i>
15.250	19.67	50	WLWK	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	200	WLWL	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	75	WLWO	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	200	WLWR	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	200	WLWS	Cincinnati, Ohio <i>U.S.A.</i>
15.250	19.67	50	KNBX	Dixon, Cal. <i>U.S.A.</i>
15.250	19.67	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.260	19.66	—	GSI	Overseas Service* <i>G. Britain</i>
15.267	19.65	50	WCBX	Brentwood, N.Y. <i>U.S.A.</i>
15.267	19.65	10	WCDA	Brentwood, N.Y. <i>U.S.A.</i>
15.267	19.65	50	WCRC	Brentwood, N.Y. <i>U.S.A.</i>
15.270	19.65	7.5	—	Dacca <i>Pakistan</i>
15.270	19.65	50	WCBN	Brentwood, N.Y. <i>U.S.A.</i>
15.270	19.65	50	WOOC	Wayne, N.J. <i>U.S.A.</i>
15.270	19.65	50	WOOW	Wayne, N.J. <i>U.S.A.</i>
15.270	19.65	—	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
15.280	19.63	5	—	Ruiselede <i>Belgium</i>
15.280	19.63	7.5	ZL4	Wellington <i>New Zealand</i>
15.280	19.63	50	WNRE	Bound Brook, N.J. <i>U.S.A.</i>
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	WRUA	Boston, Mass. <i>U.S.A.</i>
15.290	19.62	50	WRUL	Boston, Mass. <i>U.S.A.</i>
15.290	19.62	100	KWID	San Francisco, Cal. <i>U.S.A.</i>
15.290	19.62	50	KWIX	San Francisco, Cal. <i>U.S.A.</i>
15.290	19.62	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.295	19.61	25	—	Realtort <i>France</i>
15.295	19.61	10	—	Belgrade <i>Yugoslavia</i>
15.300	19.61	1	CP7	La Paz <i>Bolivia</i>

Mc/s	Metres	kW	Call	Station and Country
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	50	—	Manila <i>Philippines</i>
15.300	19.61	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.300	19.61	2.5	CXA18	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	—	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
15.320	19.58	100	VLA5	Shepparton, Vic. <i>Australia</i>
15.320	19.58	50	VLC4	Shepparton, Vic. <i>Australia</i>
15.320	19.58	50	CKCS	Sackville, N.B. <i>Canada</i>
15.320	19.58	17	OLR5B	Podebrady <i>Czechoslovakia</i>
15.320	19.58	5	OZH	Copenhagen <i>Denmark</i>
15.320	19.58	—	CSW7	Lisbon <i>Portugal</i>
15.320	19.58	25	HEU6	Schwarzenburg <i>Switzerland</i>
15.320	19.58	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.325	19.58	20	—	Tokio <i>Japan</i>
15.326	19.58	10	CR7BG	Lourenco M. <i>Mozambique</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	200	WLWR	Cincinnati, Ohio <i>U.S.A.</i>
15.330	19.57	200	KCBR	Delano, Cal. <i>U.S.A.</i>
15.330	19.57	50	KNBX	Dixon, Cal. <i>U.S.A.</i>
15.330	19.57	50	WGEA	Schenectady, N.Y. <i>U.S.A.</i>
15.330	19.57	100	WGEO	Schenectady, N.Y. <i>U.S.A.</i>
15.335	19.56	5	—	Ruiselede <i>Belgium</i>
15.340	19.56	—	—	Sverdlovsk, Russia <i>U.S.S.R.</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	50	WRUA	Boston, Mass. <i>U.S.A.</i>
15.350	19.54	50	WRUL	Boston, Mass. <i>U.S.A.</i>
15.350	19.54	50	WRUS	Boston, Mass. <i>U.S.A.</i>
15.350	19.54	20	WRUW	Boston, Mass. <i>U.S.A.</i>
15.350	19.54	75	WLWO	Cincinnati, Ohio <i>U.S.A.</i>
15.350	19.54	200	WLWR	Cincinnati, Ohio <i>U.S.A.</i>
15.352	19.54	5	—	Luxembourg <i>Luxembourg</i>



M c/s	Metres	kW	Call	Station and Country
15.360	19.53	—	—	Moscow, Russia U.S.S.R.
15.365	19.52	25	ZYC9	Rio de Janeiro Brazil
15.370	19.52	—	—	Leningrad, Russia U.S.S.R.
15.390	19.49	12	FHE2	Dakar Senegal
15.390	19.49	—	—	Moscow, Russia U.S.S.R.
15.405	19.48	5	PZC	Paramaribo Dutch Guiana
15.410	19.47	—	—	Moscow, Russia U.S.S.R.
15.430	19.44	1.3	ZOY	Accra Gold Coast
15.435	19.44	—	GWE	Overseas Service* G. Britain
15.440	19.43	—	—	Moscow, Russia U.S.S.R.
15.447	19.42	1	CR6RL	Lobito Angola
15.450	19.42	—	GRD	Overseas Service* G. Britain
15.450	19.42	—	—	Moscow, Russia U.S.S.R.
15.470	19.39	—	—	Moscow, Russia U.S.S.R.
15.550	19.29	—	—	Moscow, Russia U.S.S.R.
15.595	19.24	50	FZI	Brazzaville Fr. Eq. Africa
15.707	19.10	40	—	Madrid Spain
15.710	19.09	—	—	Moscow, Russia U.S.S.R.
15.765	19.03	3	—	Tirana Albania
16.210	18.51	—	—	Santiago Chile
16.214	18.50	12	FZS	Saigon Fr. Indo-China
16.666	18.00	2	—	Rabat Fr. Morocco
17.445	17.20	25	HVJ	Vatican City Vatican City
17.504	17.14	2.5	CNR3	Rabat Fr. Morocco
17.630	17.01	2.5	PLB6	Batavia, Java Indonesia
17.700	16.95	—	GVP	Overseas Service* G. Britain
17.715	16.93	—	GRA	Overseas Service* G. Britain
17.720	16.93	10	LRA5	Buenos Aires Argentina
17.730	16.92	7.5	—	Colombo Ceylon
17.730	16.92	—	GVQ	Overseas Service* G. Britain
17.745	16.91	50	OTC5	Leopoldville Belg. Congo
17.750	16.90	50	WRUA	Boston, Mass. U.S.A.
17.750	16.90	50	WRUS	Boston, Mass. U.S.A.
17.755	16.90	20	WRUW	Boston, Mass. U.S.A.
17.760	16.89	5	VUD3	Delhi India
17.760	16.89	100	KWID	San Francisco, Cal. U.S.A.
17.760	16.89	50	KWIX	San Francisco, Cal. U.S.A.
17.760	16.89	—	—	Moscow, Russia U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country
17.765	16.88	25	—	Muret <i>France</i>
17.770	16.88	7.5	—	Colombo <i>Ceylon</i>
17.770	16.88	7.5	ZL5	Wellington <i>New Zealand</i>
17.770	16.88	50	KNBA	Dixon, Cal. <i>U.S.A.</i>
17.770	16.88	50	KNBI	Dixon, Cal. <i>U.S.A.</i>
17.770	16.88	—	—	Moscow, Russia <i>U.S.S.R.</i>
17.775	16.88	5	PHI	Huizen <i>Netherlands</i>
17.780	16.87	25	—	Muret <i>France</i>
17.780	16.87	7.5	—	Athens <i>Greece</i>
17.780	16.87	50	WBOS	Boston, Mass. <i>U.S.A.</i>
17.780	16.87	50	WNBI	Bound Brook, N.J. <i>U.S.A.</i>
17.780	16.87	50	WRCA	Bound Brook, N.J. <i>U.S.A.</i>
17.780	16.87	50	KCBR	Delano, Cal. <i>U.S.A.</i>
17.784	16.87	25	HER7	Schwarzenburg <i>Switzerland</i>
17.790	16.86	—	GSG	Overseas Service* <i>G. Britain</i>
17.791	16.86	10	—	Algiers <i>Algeria</i>
17.800	16.85	100	VLA7	Shepparton, Vic. <i>Australia</i>
17.800	16.85	100	VLB7	Shepparton, Vic. <i>Australia</i>
17.800	16.85	15	OIX5	Helsinki <i>Finland</i>
17.800	16.85	100	KRHO	Honolulu <i>Hawaii</i>
17.800	16.85	100	VUD7	Delhi <i>India</i>
17.800	16.85	7.5	—	Karachi <i>Pakistan</i>
17.800	16.85	50	WLWK	Cincinnati, Ohio <i>U.S.A.</i>
17.800	16.85	200	WLWL	Cincinnati, Ohio <i>U.S.A.</i>
17.800	16.85	75	WLWO	Cincinnati, Ohio <i>U.S.A.</i>
17.800	16.85	200	WLWR	Cincinnati, Ohio <i>U.S.A.</i>
17.800	16.85	200	WLWS	Cincinnati, Ohio <i>U.S.A.</i>
17.810	16.84	100	—	Allouis <i>France</i>
17.810	16.84	—	GSV	Overseas Service* <i>G. Britain</i>
17.812	16.84	2.5	—	Rabat <i>Fr. Morocco</i>
17.820	16.84	50	CKNC	Sackville, N.B. <i>Canada</i>
17.820	16.84	7.5	—	Colombo <i>Ceylon</i>
17.820	16.84	—	—	Moscow, Russia <i>U.S.S.R.</i>
17.825	16.83	10	LLN	Fredrikstad <i>Norway</i>
17.830	16.83	17	OLR6A	Podebrady <i>Czechoslovakia</i>
17.830	16.83	20	VUD10	Delhi <i>India</i>
17.830	16.83	50	WCBN	Brentwood, N.Y. <i>U.S.A.</i>
17.830	16.83	50	WCBX	Brentwood, N.Y. <i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country	
17.830	16.83	10	WCDA	Brentwood, N.Y.	U.S.A.
17.830	16.83	50	WCRC	Brentwood, N.Y.	U.S.A.
17.830	16.83	50	WOOC	Wayne, N.J.	U.S.A.
17.830	16.83	50	WOOW	Wayne, N.J.	U.S.A.
17.835	16.82	6	—	Kalundborg	Denmark
17.835	16.82	7	FZI	Brazzaville	Fr. Eq. Africa
17.835	16.82	40	—	Tokio	Japan
17.840	16.82	100	VLA10	Shepparton, Vic.	Australia
17.840	16.82	50	VLC9	Shepparton, Vic.	Australia
17.840	16.82	1.5	—	Athlone	Eire
17.840	16.82	1.3	ZOY	Accra	Gold Coast
17.840	16.82	—	—	Kiev, Ukraine	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	50	KCBF	Delano, Cal.	U.S.A.
17.850	16.81	50	KNBI	Dixon, Cal.	U.S.A.
17.860	16.80	5	—	Ruiselede	Belgium
17.880	16.78	100	KGEX	Belmont, Cal.	U.S.A.
17.880	16.78	25	WGEX	Schenectady, N.Y.	U.S.A.
17.900	16.76	25	HVJ	Vatican City	Vatican City
17.915	16.75	10	—	Lourenco M.	Mozambique
17.955	16.71	200	WLWL	Cincinnati, Ohio	U.S.A.
17.955	16.71	200	WLWR	Cincinnati, Ohio	U.S.A.
17.955	16.71	—	—	Irkutsk, Russia	U.S.S.R.
18.010	16.66	—	—	Moscow, Russia	U.S.S.R.
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
18.160	16.52	50	WNRA	Bound Brook, N.J.	U.S.A.
18.160	16.52	50	WNRI	Bound Brook, N.J.	U.S.A.
18.390	16.31	200	WLWS	Cincinnati, Ohio	U.S.A.
18.393	16.31	12	—	Saigon	Fr. Indo-China
18.450	16.26	20	HBF	Geneva	Switzerland
18.600	16.13	2.5	PLE3	Batavia, Java	Indonesia
19.046	15.75	5	—	Johannesburg	S. Africa

Mc/s	Metres	kW	Call	Station and Country	
19.345	15.50	2.5	PLF2	Batavia, Java	<i>Indonesia</i>
20.830	14.40	15	PFF	Amsterdam	<i>Netherlands</i>
21.004	14.29	1	FZI	Brazzaville	<i>Fr. Eq. Africa</i>
21.450	13.99	5	—	Ruiselede	<i>Belgium</i>
21.450	13.99	17	OLR7A	Podebrady	<i>Czechoslovakia</i>
21.460	13.98	50	WRUA	Boston, Mass.	<i>U.S.A.</i>
21.460	13.98	50	WRUL	Boston, Mass.	<i>U.S.A.</i>
21.460	13.98	50	WRUS	Boston, Mass.	<i>U.S.A.</i>
21.460	13.98	50	KCBF	Delano, Cal.	<i>U.S.A.</i>
21.460	13.98	50	KNBA	Dixon, Cal.	<i>U.S.A.</i>
21.470	13.97	—	GSH	Overseas Service*	<i>G. Britain</i>
21.480	13.97	15	PHI	Huizen	<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	WGEA	Schenectady, N.Y.	<i>U.S.A.</i>
21.500	13.95	50	WOOW	Wayne, N.J.	<i>U.S.A.</i>
21.510	13.95	7.5	VUD8	Delhi	<i>India</i>
21.510	13.95	1	—	Rome	<i>Italy</i>
21.510	13.95	—	—	Moscow, Russia	<i>U.S.S.R.</i>
21.520	13.94	100	HER8	Schwarzenburg	<i>Switzerland</i>
21.520	13.94	50	WCBN	Brentwood, N.Y.	<i>U.S.A.</i>
21.520	13.94	50	WCBX	Brentwood, N.Y.	<i>U.S.A.</i>
21.520	13.94	10	WCDA	Brentwood, N.Y.	<i>U.S.A.</i>
21.520	13.94	50	WCRC	Brentwood, N.Y.	<i>U.S.A.</i>
21.520	13.94	50	WOOC	Wayne, N.J.	<i>U.S.A.</i>
21.520	13.94	50	WOOW	Wayne, N.J.	<i>U.S.A.</i>
21.520	13.94	—	—	Moscow, Russia	<i>U.S.S.R.</i>
21.530	13.93	—	GSI	Overseas Service*	<i>G. Britain</i>
21.540	13.93	100	VLB5	Shepparton, Vic.	<i>Australia</i>
21.540	13.93	50	WBOS	Boston, Mass.	<i>U.S.A.</i>
21.550	13.92	10	—	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>
21.565	13.91	17	OLR7B	Podebrady	<i>Czechoslovakia</i>
21.570	13.91	50	WCBN	Brentwood, N.Y.	<i>U.S.A.</i>
21.570	13.91	50	WCBX	Brentwood, N.Y.	<i>U.S.A.</i>
21.570	13.91	10	WCDA	Brentwood, N.Y.	<i>U.S.A.</i>
21.570	13.91	50	WCRC	Brentwood, N.Y.	<i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country	
21.570	13.91	50	WOOC	Wayne, N.J.	U.S.A.
21.570	13.91	50	WOOW	Wayne, N.J.	U.S.A.
21.590	13.89	50	WGEA	Schenectady, N.Y.	U.S.A.
21.600	13.89	100	VLA9	Shepparton, Vic.	Australia
21.600	13.89	100	VLB8	Shepparton, Vic.	Australia
21.600	13.89	50	CKRP	Sackville, N.B.	Canada
21.610	13.88	50	WNRA	Bound Brook, N.J.	U.S.A.
21.610	13.88	50	WNRX	Bound Brook, N.J.	U.S.A.
21.610	13.88	50	KNBI	Dixon, Cal.	U.S.A.
21.610	13.88	100	KWID	San Francisco, Cal.	U.S.A.
21.610	13.88	50	KWIX	San Francisco, Cal.	U.S.A.
21.620	13.87	7.5	—	Colombo	Ceylon
21.630	13.87	50	WNBI	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WNRA	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WNRE	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WNRI	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WNRX	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	WRCA	Bound Brook, N.J.	U.S.A.
21.630	13.87	50	KNBA	Dixon, Cal.	U.S.A.
21.640	13.86	17	OLR7C	Podebrady	Czechoslovakia
21.640	13.86	—	GRZ	Overseas Service*	G. Britain
21.650	13.85	50	WLWK	Cincinnati, Ohio	U.S.A.
21.650	13.85	200	WLWL	Cincinnati, Ohio	U.S.A.
21.650	13.85	75	WLWO	Cincinnati, Ohio	U.S.A.
21.650	13.85	200	WLWR	Cincinnati, Ohio	U.S.A.
21.650	13.85	200	WLWS	Cincinnati, Ohio	U.S.A.
21.670	13.84	10	LLP	Oslo	Norway
21.675	13.84	—	GVR	Overseas Service*	G. Britain
21.680	13.84	50	VLC10	Shepparton, Vic.	Australia
21.680	13.84	50	—	Leopoldville	Belg. Congo
21.690	13.83	50	WLWK	Cincinnati, Ohio	U.S.A.
21.690	13.83	200	WLWL	Cincinnati, Ohio	U.S.A.
21.710	13.82	50	CHLA	Sackville, N.B.	Canada
21.710	13.82	—	GVS	Overseas Service*	G. Britain
21.715	13.82	5	—	Ruiselede	Belgium
21.715	13.82	—	—	St. Georges	Bermuda
21.720	13.81	7.5	—	Singapore	Malaya
21.720	13.81	12	—	Motala	Sweden

Mc/s	Metres	kW	Call	Station and Country
21.730	13.81	10	LLQ	Fredrikstad <i>Norway</i>
21.730	13.81	50	WNRX	Bound Brook, N.J. <i>U.S.A.</i>
21.740	13.80	100	—	Allouis <i>France</i>
21.750	13.79	—	GVT	Overseas Service* <i>G. Britain</i>
25.600	11.72	20	WRUW	Boston, Mass. <i>U.S.A.</i>
25.600	11.72	7	WRUX	Boston, Mass. <i>U.S.A.</i>
25.610	11.71	15	PFP	Amsterdam <i>Netherlands</i>
25.640	11.70	100	HER9	Schwarzenburg <i>Switzerland</i>
25.750	11.65	—	GSQ	Overseas Service* <i>G. Britain</i>
25.800	11.63	7.5	ZL6	Wellington <i>New Zealand</i>
26.100	11.49	—	GSK	Overseas Service* <i>G. Britain</i>
26.200	11.45	5	—	Ruiselede <i>Belgium</i>
26.400	11.36	—	GSR	Overseas Service* <i>G. Britain</i>
26.470	11.33	5	—	Ruiselede <i>Belgium</i>
26.550	11.30	—	GSS	Overseas Service* <i>G. Britain</i>
27.000	11.11	2.5	CXA11	Montevideo <i>Uruguay</i>

# Geographical List of Short-wave Stations of the World

	Mc/s		Mc/s		Mc/s
<b>AFRICA,</b>		Algiers	12.116	<b>AUSTRALIA</b>	
<b>FRENCH EQ.</b>		"	15.165	Brisbane,	
Brazzaville	6.024	"	17.791	Qld.	7.215
"	7.001	<b>ANDORRA</b>		"	7.240
"	9.440	Andorra	5.980	"	9.660
"	9.984	"	9.340	Lyndhurst,	
"	11.972	"	14.400	Vic.	6.150
"	15.595	<b>ANGOLA</b>		"	9.540
"	17.835	Loando	9.470	"	9.580
"	21.004	Lobito	7.175	"	9.680
<b>AFRICA,</b>		"	11.035	"	11.710
<b>FRENCH W.</b>		"	11.735	"	11.760
(See Senegal)		"	15.447	"	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.	6.130
Korce	7.430	"	6.085	"	9.520
Scutari	8.215	"	6.120	"	9.610
Shkodra	8.264	"	9.320	"	11.830
Tirana	6.081	"	9.451	Shepparton,	
"	7.855	"	9.640	Vic.	7.280
"	9.960	"	9.660	"	9.540
"	15.765	"	9.690	"	9.580
<b>ALGERIA</b>		"	9.690	"	9.615
Algiers	6.040	"	10.350	"	9.650
"	7.160	"	11.730	"	9.680
"	9.570	"	11.877	"	11.710
"	9.610	"	15.290	"	11.740
"	9.660	"	17.720	"	11.760
"	11.765	Mendoza	6.180	"	11.770
"	11.835	Rosario	6.145	"	11.810
"	11.880	"	11.880	"	11.870
				"	15.160

	Mc/s		Mc/s		Mc/s
<b>Australia—cont.</b>		<b>BERMUDA</b>		<b>BURMA</b>	
Shepparton,		St. Georges	21.715	Rangoon	6.035
Vic.	15.200	<b>BOLIVIA</b>		"	9.545
"	15.210	La Paz	6.110	"	11.840
"	15.220	"	9.286	<b>CANADA</b>	
"	15.230	"	9.490	Sackville,	
"	15.320	"	9.520	N.B.	6.060
"	17.800	"	15.300	"	6.090
"	17.840	<b>BRAZIL</b>		"	6.160
"	21.540	Belem	4.865	"	9.610
"	21.600	Belo-		"	9.630
"	21.680	Horizonte	5.995	"	9.640
Sydney,		Fortaleza	6.105	"	11.705
N.S.W.	4.926	"	15.165	"	11.720
"	6.090	Manaos	4.895	"	11.760
"	9.500	Marapicu	7.934	"	11.900
<b>AUSTRIA</b>		"	9.500	"	15.090
(U.S. Zone)		"	9.600	"	15.190
Linz	9.565	"	10.220	"	15.220
<b>AZORES</b>		"	11.850	"	15.320
Ponta		"	12.080	"	17.820
Delgada	4.845	Recife	6.015	"	21.600
"	7.015	"	6.085	"	21.710
"	11.090	"	9.565	Sydney,	
<b>BELGIUM</b>		"	15.145	N.S.	6.010
Ruiselede	6.200	Rio de		Toronto,	
"	7.300	Janeiro	9.610	Ont.	6.070
"	9.480	"	9.720	Verchères,	
"	9.665	"	9.770	Quebec	6.090
"	11.720	"	11.720	"	9.520
"	11.850	"	15.365	"	9.610
"	11.893	"	17.850	"	9.630
"	15.280	"	21.550	"	11.705
"	15.335	"	6.095	"	11.720
"	17.845	Sao Paulo	6.095	"	11.760
"	17.860	"	11.765	"	15.090
"	21.450	"	15.155	"	15.190
"	21.715	<b>BULGARIA</b>		Winnipeg,	
"	26.200	Sofia	7.670	Manitoba	6.150
"	26.470	"	9.400	"	11.720



	Mc/s		Mc/s		Mc/s
CANARY IS.		Hankow	11.500	Leopold-	
Teneriffe	7.275	Hanton	6.096	ville	11.720
CEYLON		Kumming	6.404	..	15.165
Colombo	3.395	Kweiyang	7.007	..	17.745
"	4.897	"	9.450	"	21.680
"	6.075	Lanchow	9.750	COSTA RICA	
"	9.520	Nanking	9.730	San Jose	5.871
"	11.770	Peiping	10.260	"	6.700
"	15.120	Shanghai	11.690	"	9.619
"	17.730	Taipei	7.223	San Pedro	6.165
"	17.770	COLOMBIA		CUBA	
"	17.820	Barranquilla	4.785	Camaguey	8.665
"	21.620	"	4.901	Havana	6.040
CHILE		Bogota	4.835	"	6.130
Antofagasta	4.820	"	4.856	"	6.320
"	6.010	"	4.895	"	6.450
"	6.040	"	4.948	"	8.705
Punta		"	4.959	"	8.825
Arenas	9.197	"	6.160	"	9.025
Santiago	6.152	"	6.213	"	9.235
"	6.220	"	9.690	"	9.270
"	6.250	"	11.682	"	9.363
"	9.593	Bucara-		"	9.435
"	9.700	manga	4.777	"	9.640
"	11.740	"	4.848	"	9.833
"	11.810	Cali	4.825	"	11.740
"	11.850	"	6.055	Santiago	8.955
"	12.003	Cartagena	4.965	CURACAO	
"	16.210	Manizales	6.225	Willemstad	7.250
Valparaiso	6.150	Medellin	4.885	CYPRUS	
"	9.730	"	6.145	Levkosia	6.135
"	11.900	Pereira	4.865	"	6.170
CHINA		"	6.100	"	6.790
Canton	9.685	CONGO,		"	9.650
Chungking	6.143	BELGIAN		"	11.720
"	7.100	Leopoldville	6.140	CZECHO-	
"	7.153	"	6.295	SLOVAKIA	
"	9.660	"	9.380	Podebrady	6.010
"	11.915	"	9.768	"	6.030
"	15.175	"	11.670	"	6.115

	Mc/s		Mc/s		Mc/s
<b>Czechoslovakia</b>		Quito	7.265	Allouis	11.710
—cont.		"	9.968	"	11.730
Podebrady	6.170	"	12.462	"	11.780
"	9.504	"	15.114	"	15.100
"	9.550	<b>EGYPT</b>		"	15.240
"	9.670	Cairo	7.860	"	17.810
"	11.760	"	10.055	"	17.850
"	11.840	<b>EIRE</b>		"	21.490
"	11.875	Athlone	6.190	"	21.740
"	11.900	"	9.595	Les Essarts	9.560
"	15.155	"	11.740	Muret	11.845
"	15.225	"	15.120	"	11.885
"	15.320	"	17.840	"	17.765
"	17.830	<b>ETHIOPIA</b>		"	17.780
"	21.450	Addis		Realtort	7.240
"	21.565	Ababa	8.240	"	9.620
"	21.640	"	9.625	"	15.295
<b>DENMARK</b>		"	15.055	"	15.350
Copenhagen	7.260	"		<b>GAMBIA</b>	
"	9.520	<b>FIJI ISLANDS</b>		Bathurst	9.530
"	15.165	Suva	6.130	<b>GERMANY</b>	
"	15.320	"	9.535	(British Zone)	
Kalund-		"	11.895	Hamburg	6.115
borg	11.805	"	15.160	"	7.290
"	17.835	<b>FINLAND</b>		(French Zone)	
<b>DOMINICAN</b>		Helsinki	6.120	Baden	
<b>REPUBLIC</b>		"	17.800	Baden	6.320
Ciudad		"	21.550	(U.S. Zone)	
Trujillo	6.000	Lahti	9.500	Frankfurt	6.190
"	6.050	"	9.555	Munich	6.080
Monsenor		"	11.780	"	6.170
Nouel	5.970	Pori	15.190	"	7.250
"	7.275	<b>FRANCE</b>		"	7.290
"	9.735	Allouis	6.175	"	9.540
"	11.900	"	7.280	"	11.870
<b>ECUADOR</b>		"	9.520	"	15.105
Guayaquil	4.650	"	9.540	Nüremberg	6.160
"	9.310	"	9.550	Stuttgart	6.030
"	11.805	"	9.680	"	6.180
Quito	5.995	"	11.700	(U.S.S.R. Zone)	

Germany-cont. Mc/s		Mc/s		Mc/s
Berlin	6.070	Overseas		
"	7.611	Service*	9.525	Overseas
Leipzig	9.727	" "	9.550	Service* 17.700
<b>GOLD COAST</b>		" "	9.570	" "
Accra	3.480	" "	9.580	" "
"	4.911	" "	9.600	" "
"	7.295	" "	9.625	" "
"	15.430	" "	9.640	" "
"	17.840	" "	9.660	" "
<b>GREAT BRITAIN</b>		" "	9.675	" "
Overseas		" "	9.690	" "
Service*	2.880	" "	9.700	" "
" "	6.010	" "	9.825	" "
" "	6.035	" "	9.915	" "
" "	6.050	" "	11.680	" "
" "	6.060	" "	11.700	" "
" "	6.070	" "	11.730	" "
" "	6.090	" "	11.750	" "
" "	6.110	" "	11.770	" "
" "	6.125	" "	11.800	" "
" "	6.150	" "	11.820	" "
" "	6.165	" "	11.840	<b>GREECE</b>
" "	6.180	" "	11.860	Athens
" "	6.195	" "	11.930	"
" "	7.075	" "	11.955	"
" "	7.120	" "	12.040	"
" "	7.150	" "	12.095	"
" "	7.185	" "	15.070	<b>GREENLAND</b>
" "	7.200	" "	15.110	Godthaab
" "	7.210	" "	15.140	5.943
" "	7.230	" "	15.180	<b>GUATEMALA</b>
" "	7.250	" "	15.210	Guatemala
" "	7.260	" "	15.260	City
" "	7.280	" "	15.300	"
" "	7.325	" "	15.310	"
" "	9.410	" "	15.435	"
" "	9.510	" "	15.450	"
				4.170
				6.100
				6.235
				6.332
				6.440
				9.760
				15.170

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

	Mc/s		Mc/s		Mc/
<b>Guatemala—cont.</b>		Bombay	9.550	Delhi	15.210
Quezal-		"	9.630	"	15.290
tenango	6.400	Calcutta	3.305	"	15.350
<b>GUIANA, BRIT.</b>		"	4.840	"	17.760
Georgetown	5.980	"	6.010	"	17.800
"	15.075	"	7.210	"	17.830
<b>GUIANA, DUTCH</b>		"	9.530	"	21.510
Paramaribo	15.405	Delhi	3.335	Hyderabad	3.335
		"	3.495	"	6.170
		"	4.850	Madras	4.920
<b>GUINEA, PORTUGUESE</b>		"	4.860	"	6.085
Bissao	6.993	"	4.960	"	7.260
"	7.947	"	6.016	"	9.590
		"	6.060	<b>INDO-CHINA, FRENCH</b>	
<b>HAWAII</b>		"	6.100	Saigon	6.165
Honolulu	6.120	"	6.110	"	11.783
"	9.530	"	6.190	"	16.214
"	11.890	"	7.210	"	18.393
"	15.250	"	7.240	<b>INDONESIA</b>	
"	17.800	"	7.270	Bandoeng,	
		"	7.275	Java	8.000
<b>HONDURAS REPUBLIC</b>		"	7.290	Batavia,	
Tegucigalpa	5.920	"	9.565	Java	9.550
		"	9.570	"	10.060
<b>HONG KONG</b>		"	9.590	"	10.365
Victoria	9.520	"	9.620	"	11.000
		"	9.630	"	11.440
<b>HUNGARY</b>		"	9.660	"	11.770
Budapest	6.247	"	9.670	"	15.150
"	9.820	"	9.680	"	17.630
"	10.030	"	11.760	"	18.600
<b>ICELAND</b>		"	11.790	"	19.345
Reykjavik	5.060	"	11.830	Macassar,	
"	9.060	"	11.850	Celebes	9.550
"	12.174	"	11.870	<b>IRAN</b>	
<b>INDIA</b>		"	11.890	Teheran	4.830
Akashvani	6.065	"	15.130	"	6.155
Bombay	3.365	"	15.160	"	9.680
"	4.880	"	15.170	"	15.100
"	6.150	"	15.190		
"	7.240	"			

	Mc/s		Mc/s		Mc/s
<b>IRAQ</b>		<b>LEBANON</b>		<b>Monte</b>	
Baghdad	6.776	Beirut	6.090	Carlo	9.494
"	7.092	"	7.210	"	9.785
"	9.940	"	8.037	<b>MOROCCO,</b>	
<b>ISRAEL</b>		<b>LUXEMBOURG</b>		<b>FRENCH</b>	
Galilee	6.990	Luxembourg	6.090	Rabat	6.006
Haifa	8.170	"	9.528	"	7.214
Tel Aviv	6.830	"	15.352	"	9.015
"	11.820	<b>MADAGASCAR</b>		"	9.575
<b>ITALY</b>		Tananarive	6.065	"	11.857
Milan	6.085	"	12.126	"	11.940
"	9.630	<b>MALAYA</b>		"	15.104
"	11.810	Knala		"	16.666
"	15.120	Lumpur	6.060	"	17.504
Rome	6.030	Singapore	4.780	"	17.812
"	7.250	"	4.825	<b>MOROCCO</b>	
"	7.270	"	6.770	(Intl. Zone)	
"	21.510	"	7.200	Tangier	6.110
<b>JAMAICA</b>		"	9.690	"	7.060
Kingston	3.480	"	11.880	"	11.677
"	4.950	"	15.300	<b>MOROCCO,</b>	
<b>JAPAN</b>		"	21.720	<b>SPANISH</b>	
Kure	6.113	<b>MARTINIQUE</b>		Tetuan	6.067
Tokio	7.258	Fort de		<b>MOZAMBIQUE</b>	
"	7.285	France	9.695	Lourenco	
"	9.505	<b>MEXICO</b>		Marques	4.820
"	9.560	Mexico City	6.010	"	4.930
"	9.655	"	6.155	"	9.590
"	15.225	"	9.500	"	9.652
"	15.235	"	9.565	"	9.747
"	15.325	"	9.615	"	15.326
"	17.835	"	9.625	"	17.915
Yamato	9.605	"	9.680	<b>NETHERLANDS</b>	
<b>KENYA</b>		"	11.782	Amsterdam	18.065
Nairobi	4.850	"	11.880	"	20.830
"	10.730	<b>MONACO</b>		"	25.610
<b>KOREA</b>		Monte		Huizen	6.025
Seoul	3.510	Carlo	6.035	"	9.590
"	7.935	"	7.350	"	11.730

	Mc/s		Mc/s		Mc/s
<b>Netherlands</b>		<b>PANAMA</b>		<b>Lisbon</b>	15.100
—cont.		Colon	9.505	„	15.320
Huizen	15.220	Panama		<b>RHODESIA, N.</b>	
„	17.775	City	9.607	Lusaka	3.914
„	21.480	„	9.660	„	7.285
<b>NEW GUINEA,</b>		„	11.695	„	9.175
<b>BRITISH</b>		„	11.810	<b>RHODESIA, S.</b>	
Port		„	15.097	Bulawayo	3.800
Moresby	7.280	<b>PAPUA</b>		Salisbury	3.658
„	9.520	(See New Guinea)		<b>RUMANIA</b>	
<b>NEW ZEALAND</b>		<b>PARAGUAY</b>		Bucharest	6.210
Wellington	6.080	Asuncion	6.290	„	9.255
„	9.540	„	11.865	<b>SALVADOR</b>	
„	11.780	Encarna-		S. Salvador	6.170
„	15.280	cion	11.950	„	6.255
„	17.770	<b>PERU</b>		„	6.275
„	25.800	Lima	5.894	„	9.543
<b>NICARAGUA</b>		„	6.010	Santa Ana	5.980
Managua	6.760	„	6.090	<b>SENEGAL</b>	
<b>NORWAY</b>		„	6.350	Dakar	9.565
Fredrikstad	6.185	„	9.562	„	11.895
„	9.610	„	15.150	„	15.390
„	11.735	<b>PHILIPPINES</b>		<b>SIAM</b>	
„	11.852	Manila	6.000	Bangkok	5.994
„	17.825	„	9.640	<b>SOUTH AFRICA</b>	
„	21.730	„	11.890	Cape Town	5.883
Oslo	6.195	„	15.300	„	9.606
„	7.240	„	15.330	Johannes-	
„	11.765	<b>POLAND</b>		burg	3.450
„	21.670	Warsaw	6.215	„	4.800
Tromsö	6.127	„	9.526	„	4.895
„	7.210	<b>PORTUGAL</b>		„	6.007
„	9.535	Lisbon	6.154	„	9.523
„	9.547	„	9.727	„	9.870
„	15.175	„	11.030	„	11.710
<b>PAKISTAN</b>		„	11.840	„	19.046
Dacca	11.890	„	12.750	<b>SPAIN</b>	
„	15.270	„	12.865	Alicante	7.950
Karachi	6.075	„		Madrid	9.368
„	17.800	„			

Spain—cont.	Mc/s		Mc/s		Mc/s
Madrid	9.832	Schwarzen-		Boston,	
"	15.707	burg	15.305	Mass.	17.755
Valencia	7.035	"	15.320	" "	17.780
Valladolid	7.006	"	17.784	" "	21.460
SURINAM		"	21.520	" "	21.540
(See Guiana,		"	25.640	" "	25.600
Dutch)		TURKEY		Bound Brook,	
SWEDEN		Ankara	9.465	N.J.	6.100
Motala	6.065	"	15.195	" "	6.190
"	9.535	U.S.A.		" "	9.530
"	9.660	Belmont,		" "	9.670
"	10.780	Cal.	6.190	" "	9.700
"	11.705	" "	7.250	" "	9.750
"	15.155	" "	9.530	" "	11.770
"	21.720	" "	9.550	" "	11.790
SWITZERLAND		" "	9.670	" "	11.830
Geneva	6.675	" "	11.730	" "	11.870
"	9.350	" "	15.210	" "	11.890
"	14.462	" "	15.330	" "	11.893
"	14.538	" "	17.880	" "	13.050
"	18.450	" "	21.490	" "	14.560
Schwarzen-		Boston,		" "	15.150
burg	6.165	Mass.	6.040	" "	15.190
"	6.345	" "	6.140	" "	15.280
"	7.210	" "	9.550	" "	17.780
"	7.360	" "	9.570	" "	18.160
"	7.380	" "	9.700	" "	21.610
"	9.185	" "	11.725	" "	21.630
"	9.535	" "	11.730	" "	21.730
"	9.539	" "	11.740	Breatwood,	
"	9.655	" "	11.790	N.Y.	6.060
"	9.665	" "	11.870	" "	6.120
"	10.395	" "	15.130	" "	6.170
"	11.715	" "	15.200	" "	9.490
"	11.775	" "	15.210	" "	9.590
"	11.815	" "	15.220	" "	9.650
"	11.865	" "	15.250	" "	11.830
"	11.960	" "	15.290	" "	15.267
"	11.965	" "	15.350	" "	15.270
"	15.120	" "	17.750	" "	17.830

U.S.A.—cont.		Mc/s			Mc/s			Mc/s
Brentwood,			Dixon, Cal.	11.790		Wayne, N.J.		
N.Y.	21.520		" "	15.130		" "	11.870	
" "	21.570		" "	15.250		" "	15.130	
Cincinnati,			" "	15.330		" "	15.200	
Ohio	6.080		" "	17.770		" "	15.270	
" "	9.520		" "	17.850		" "	17.830	
" "	9.590		" "	21.460		" "	21.500	
" "	9.700		" "	21.610		" "	21.520	
" "	9.750		" "	21.630		" "	21.570	
" "	11.705		San Francisco.			U.S.S.R.		
" "	11.710		Cal.	6.060		Ashkhabad,		
" "	11.790		" "	7.230		Turkmen.	5.970	
" "	15.130		" "	9.570		" "	6.180	
" "	15.200		" "	11.870		Erivan,		
" "	15.230		" "	11.890		Armenia	7.150	
" "	15.250		" "	11.900		Irkutsk,		
" "	15.330		" "	15.290		Russia	17.955	
" "	15.350		" "	17.760		Kiev,		
" "	17.800		" "	21.610		Ukraine	6.020	
" "	17.955		Schenectady,			" "	11.720	
" "	18.390		N.Y.	6.190		" "	15.309	
" "	21.650		" "	7.000		" "	17.840	
" "	21.690		" "	9.525		Komsomolsk,		
Delano.			" "	9.530		Siberia	9.565	
Cal.	9.700		" "	9.550		" "	11.750	
" "	9.750		" "	9.670		" "	15.230	
" "	11.770		" "	11.770		Leningrad,		
" "	11.810		" "	11.810		Russia	7.340	
" "	15.130		" "	11.847		" "	7.650	
" "	15.150		" "	15.330		" "	9.045	
" "	15.240		" "	17.880		" "	9.600	
" "	15.330		" "	21.500		" "	9.720	
" "	17.780		" "	21.590		" "	11.630	
" "	17.850		Wayne, N.J.	6.120		" "	11.750	
" "	21.460		" "	6.170		" "	15.370	
Dixon, Cal.	6.060		" "	9.490		Minsk, Byelo-		
" "	9.490		" "	9.650		russia	9.500	
" "	9.650		" "	9.700		Moscow,		
" "	9.750		" "	11.810		Russia	4.550	
" "	11.770		" "	11.830		" "	5.080	



USSR—cont.		Mc/s			Mc/s			Mc/s
Moscow,			Moscow,			Moscow,		
	Russia			Russia			Russia	
		5.790			9.045			11.960
"	"	5.805	"	"	9.435	"	"	12.020
"	"	5.920	"	"	9.480	"	"	12.060
"	"	5.957	"	"	9.540	"	"	12.270
"	"	6.000	"	"	9.550	"	"	12.542
"	"	6.010	"	"	9.605	"	"	12.989
"	"	6.030	"	"	9.610	"	"	14.660
"	"	6.040	"	"	9.620	"	"	15.040
"	"	6.045	"	"	9.630	"	"	15.085
"	"	6.060	"	"	9.640	"	"	15.160
"	"	6.075	"	"	9.650	"	"	15.170
"	"	6.090	"	"	9.660	"	"	15.210
"	"	6.130	"	"	9.670	"	"	15.230
"	"	6.140	"	"	9.680	"	"	15.240
"	"	6.150	"	"	9.710	"	"	15.250
"	"	6.160	"	"	9.740	"	"	15.280
"	"	6.190	"	"	9.760	"	"	15.290
"	"	6.195	"	"	9.780	"	"	15.300
"	"	6.360	"	"	9.800	"	"	15.320
"	"	6.700	"	"	9.825	"	"	15.360
"	"	7.165	"	"	9.880	"	"	15.390
"	"	7.200	"	"	9.900	"	"	15.410
"	"	7.270	"	"	10.205	"	"	15.440
"	"	7.215	"	"	10.660	"	"	15.450
"	"	7.235	"	"	11.117	"	"	15.470
"	"	7.245	"	"	11.710	"	"	15.550
"	"	7.270	"	"	11.740	"	"	15.710
"	"	7.280	"	"	11.750	"	"	17.760
"	"	7.295	"	"	11.780	"	"	17.770
"	"	7.300	"	"	11.820	"	"	17.820
"	"	7.320	"	"	11.830	"	"	18.010
"	"	7.330	"	"	11.850	"	"	21.510
"	"	7.360	"	"	11.875	"	"	21.520
"	"	7.390	"	"	11.885			
"	"	7.410	"	"	11.890			
"	"	7.790	"	"	11.900	Petropavlovsk,		
"	"	8.050	"	"	11.930	Russia		6.070
"	"	8.213	"	"	11.940	"	"	9.545
"	"	8.910	"	"	11.950	"	"	11.885
			"	"		"	"	15.110

USSR—cont.	Mc/s	VATICAN CITY		Caracas	Mc/s
Sverdlovsk,		Vatican			3.505
Russia	15.270	City	5.899	"	4.878
" "	15.310	" "	5.969	"	4.890
" "	15.340	" "	6.190	"	4.920
Tashkent,		" "	9.550	"	5.020
Uzbek	6.825	" "	9.642	"	5.057
Tiflis,		" "	9.660	"	9.640
Georgia	6.050	" "	11.680	Carora	3.341
Yakutsk,		" "	11.740	Cumana	3.590
Siberia	5.927	" "	15.095	El Tigre	3.325
URUGUAY		" "	15.120	Maracaibo	4.802
Colonia	6.055	" "	17.445	"	6.150
"	9.640	" "	17.840	S. Cristobal	4.828
Montevideo	6.035	" "	17.900	Valera	4.842
"	6.075				
"	6.155	VENEZUELA		YUGOSLAVIA	
"	6.174	Barcelona	3.450	Belgrade	6.100
"	9.620	"	3.515	"	6.140
"	11.735	"	4.820	"	9.420
"	11.833	Barquisi-		"	9.507
"	11.900	meto	4.994	"	15.240
"	15.300	Bolivar	6.200	"	15.295
"	27.000				

## 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 (an asterisk\* is used where the station is operating experimentally), 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.

1	2	3	4	5	6	Station and Country
32.50	6.5	-		441		Leningrad, Russia U.S.S.R.
41.50(S)	3	A.M.				London G. Britain
42.00(S)	5	A.M.				Paris France
42.50(S)	*					Berlin, U.S.S.R. Zone Germany
42.80	*					Berlin, U.S.S.R. Zone Germany
44.30	*					Berlin, U.S.S.R. Zone Germany
45.00	17	+	V	405	D	London G. Britain
45.00(S)	*					Berlin, U.S.S.R. Zone Germany
46.00	30	+	V	455	†	Paris France
47.75	*	-		567		Kootwijk Netherlands
49.00(S)	*					Kootwijk Netherlands
58.25(S)	12	A.M.				Sutton Coldfield G. Britain
61.75	35	+	V	405	L	Sutton Coldfield G. Britain
63.25	*	-		567		Eindhoven Netherlands
63.29	*	-		567		Copenhagen Denmark
67.72(S)	*	F.M.				Copenhagen Denmark
67.75(S)	*					Eindhoven Netherlands
202.10(S)	3	A.M.				Paris France
213.25	5	+	H	819	L	Paris France

† Changing to 405.

## European E.H.F. Broadcasting Stations

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

Mc/s	Metres	kW	Station and Country	
41.62	7.206	0.75	Stockholm	<i>Sweden</i>
42.00	7.143	0.8	Copenhagen	<i>Denmark</i>
46.50	6.452	—	Moscow, Russia	<i>U.S.S.R.</i>
56.50	5.310	0.25	Lyons	<i>France</i>
56.50	5.310	0.25	Paris	<i>France</i>
69.00	4.348	5	Paris	<i>France</i>
89.10	3.367	0.1	Hamburg, Br. Zone	<i>Germany</i>
90.10	3.330	0.25	Munich, U.S. Zone	<i>Germany</i>
90.30	3.322	0.5	London	<i>G. Britain</i>
93.10	3.222	0.8	Copenhagen	<i>Denmark</i>
93.90*	3.195	0.5	London	<i>G. Britain</i>

## British Amateur Transmitting Frequencies

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

# International Allocation of Call Signs

The following revised table of prefixes was agreed at the Atlantic City Conference, 1947, and came into use on January 1, 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-DQZ	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	Eire	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	Iran	PKA-POZ	Netherlands Indies
ERA-ERZ	U.S.S.R.	PPA-PYZ	Brazil
ESA-ESZ	Estonia	PZA-PZZ	Surinam
ETA-ETZ	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	UUA-UZZ	U.S.S.R.
HSA-HSZ	Siam	VAA-VGZ	Canada
HTA-HTZ	Nicaragua	VHA-VNZ	Australia

VOA-VOZ	Newfoundland	ZNA-ZOZ	British Colonies
VPA-VSZ	British Colonies	ZPA-ZPZ	Paraguay
VTA-VWZ	India	ZQA-ZQZ	British Colonies
VXA-VYZ	Canada	ZRA-ZUZ	South Africa
VZA-VZZ	Australia	ZVA-ZZZ	Brazil
WAA-WZZ	U.S.A.	2AA-2ZZ	Great Britain
XAA-XIZ	Mexico	3AA-3AZ	Monaco
XJA-XOZ	Canada	3BA-3FZ	Canada
XPA-XPZ	Denmark	3GA-3GZ	Chile
XQA-XRZ	Chile	3HA-3UZ	China
XSA-XSZ	China	3VA-3VZ	France and Colonies
XTA-XWZ	France and Colonies	3WA-3XZ	(Not Allocated)
XXA-XXZ	Portuguese Colonies	3YA-3YZ	Norway
XYA-XZZ	Burma	3ZA-3ZZ	Poland
YAA-YAZ	Afghanistan	4AA-4CZ	Mexico
YBA-YHZ	Netherlands Indies	4DA-4IZ	Philippines
YIA-YIZ	Iraq	4JA-4LZ	U.S.S.R.
YJA-YJZ	New Hebrides	4MA-4MZ	Venezuela
YKA-YKZ	Syria	4NA-4OZ	Yugoslavia
YLA-YLZ	Latvia	4PA-4SZ	British Colonies
YMA-YMZ	Turkey	4TA-4TZ	Peru
YNA-YNZ	Nicaragua	4UA-4UZ	United Nations
YOA-YRZ	Rumania	4VA-4VZ	Haiti
YSA-YSZ	Salvador	4WA-4WZ	Yemen
YTA-YUZ	Yugoslavia	4XA-4ZZ	(Not Allocated)
YVA-YYZ	Venezuela	5AA-5ZZ	(Not Allocated)
YZA-YZZ	Yugoslavia	6AA-6ZZ	(Not Allocated)
ZAA-ZAZ	Albania	7AA-7ZZ	(Not Allocated)
ZBA-ZJZ	British Colonies	8AA-8ZZ	(Not Allocated)
ZKA-ZMZ	New Zealand	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	Congo, Belgian		Labrador	-3.30
Afghanistan	+4.30	Eastern	+2	Lebanon	+2
Africa		Western	+1	Liberia	-0.44
French Eq.	+1	Costa Rica	-6	Libya	+1
French W.	-1	Cuba	-5	Luxembourg	+1
Portuguese E.	+2	Curaçao	-4.30	Madagascar	+3
Portuguese W.	+1	Cyprus	+2	Malaya	+7.20
South	+2	Czechoslovakia	+1	Malta	+1
Alaska	-10	Denmark	+1	Martinique	-4
Albania	+1	Dominican Rep.	-5	Mexico	
Algeria	0	Ecuador	-5	Eastern	-6
Andorra	0	Egypt	+2	Western	-7
Angola	+1	Eire	0	Monaco	+1
Argentina	-4	Ethiopia	+2.45	Morocco	0
Australia		Fiji Islands	+12	Mozambique	+2
N.S.W., Queens-		Finland	+2	Natal	+2
land, Victoria	+10	France	+1	Netherlands	0
S. Australia, N.		Gambia	-1	Newfoundland	-3.30
Territory	+9.30	Germany	+1	New Guinea	
W. Australia	+8	Gibraltar	0	British	+10
Austria	+1	Gold Coast	0	Dutch	+9
Azores	-2	Great Britain	0	New Zealand	+12
Bahamas	-5	Greece	+2	Nicaragua	-6
Barbados	-4	Greenland	-3	Nigeria	+1
Belgium	+1	Guadeloupe	-4	Norway	+1
Bermuda	-4	Guatemala	-6	Pakistan	+5.30
Bolivia	-4	Guiana		Panama	-5
Borneo	+8	British	-3.45	Papua	+10
Brazil		Dutch	-3.40	Paraguay	-4
Western	-4	French	-4	Peru	-5
Eastern	-3	Guinea		Philippines	+8
Bulgaria	+2	Portuguese	-1	Poland	+1
Burma	+6.30	Spanish	0	Portugal	0
Canada		Haiti	-5	Puerto Rico	-4
Atlantic	-4	Hawaii	-10.30	Rhodesia	+2
Eastern	-5	Honduras, Brit.	-6	Rumania	+2
Central	-6	Hong Kong	+8	Salvador	-6
Mountain	-7	Hungary	+1	Senegal	-1
Pacific	-8	Iceland	-1	Siam	+7
Yukon	-9	India	+5.30	Sierra Leone	-1
Canary Islands	-1	Indo-China, Fr.-	+7	Somaliland, Brit.	+3
Celebes	+8	Iran	+3.30	Spain	0
Ceylon	+5.30	Iraq	+3	Sudan	+2
Chile	-4	Israel	+2	Sumatra	
China		Italy	+1	North	+6.30
Eastern	+8	Jamaica	-5	South	+7
Western	+7	Japan	+9	Surinam	-3.40
Colombia	-5	Java	+7.30	Sweden	+1
		Kenya	+3	Switzerland	+1
		Korea	+8	Syria	+2

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

### SPECIAL SERVICE STATIONS

kc/s	Metres	kW	Call	Station
245	1224	—	Airmet	Borough Hill, Daventry, G. Britain
263	1141	1	MWN	Consol, Bushmills, N. Ireland
303	990	—	—	Consol, Lugo, Spain
311	965	—	HT	Consol, Seville, Spain
319	940	—	LEC	Consol, Stavanger, Norway
2,000	150	0.35	GMT	Standard Frequency Station, Royal Observatory, Abinger, Surrey, G. Britain
2,500	120	1	WWV	Standard Frequency Station, Washington, U.S.A.
3,500.25	85.7	0.5	GB1RS	Standard Frequency Station, R.S.G.B., London, G. Britain
5,000	60	8	WWV	Standard Frequency Station, Washington, U.S.A.
10,000	30	9	WWV	
15,000	20	9	WWV	
20,000	15	8.5	WWV	

In addition to the standard frequency transmissions given above, the frequencies of the following B.B.C. and G.P.O. 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. It is also noteworthy that the frequencies of all B.B.C. medium-wave transmitters, with the exception of Droitwich, 583 kc/s, are maintained to approximately  $\pm 1$  part in  $10^6$ .



# Wavelength and Frequency Conversion

Broadcast receivers have their tuning scales calibrated either 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 :

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

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

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

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

## 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	k/cs	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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