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SEVENTH EDITION



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Wireless World

**WIRELESS
ENGINEER**

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Guide to Broadcasting Stations

COMPILED BY THE STAFF OF
"WIRELESS WORLD"

Seventh Edition

A "Wireless World" Publication

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Introduction

SINCE the publication of the last edition of this book in 1951, there have been considerable changes in each of the broadcasting bands and we have taken the opportunity afforded by the preparation of this edition completely to revise each of the sections.

The list of long- and medium-wave stations includes not only the allocations under the Copenhagen Plan, but also details of stations operating on frequencies not allocated to their countries under the Plan. Similarly, in the case of the short-wave transmitters, the list includes both the frequencies at present employed by stations and those announced for future use by them although not necessarily employed at the time of preparation of the data. Stations known to have a power of less than one kilowatt have not been included in the short-wave list.

It is noteworthy that the number of European metre-wave stations now included is four times as many as in the last edition.

To reduce the length of the medium-wave list the abbreviation "L.P. Stations" has been used where a country is operating a number of low-power stations—not necessarily synchronized—on the same frequency. Stations operating on the International Common Frequencies are given in the geographical list only.

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

In order to differentiate between stations used for Forces transmissions and those for the civil population in occupied Zones of Europe and the Far East we have indicated the former in the

frequency lists by the initials A.F. (American Forces), B.F. (British Forces) and R.F. (Russian Forces).

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

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

*The Editor,
"Wireless World"*

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Long- and Medium-wave European Stations

The Copenhagen Plan (1948) provided for allocations in 15 channels in the long-wave band (150–285 kc/s), 121 in the medium-wave band (525–1605 kc/s) and 3 intermediate channels, marked X1–X3 in the first column.

Stations operating on frequencies not allocated to their countries under the Copenhagen Plan are italicized. Provision was made in the Plan for some stations that are not yet using the frequencies allocated; these are marked † in the power column. Frequencies used exclusively during either the day or night are indicated respectively by D or N.

Chan- nel	kc/s	Metres	kW	Station and Country	
—	<i>151</i>	<i>1,987</i>	—	<i>Hamburg</i>	<i>W. Germany</i>
1	155	1,935	10	Tromsø	Norway
			150	Brasov	Rumania
2	164	1,829	250	Allouis	France
3	173	1,734	500	Moscow, Russia	U.S.S.R.
4	182	1,648	100	Reykjavik	Iceland
			10	Lulea	Sweden
			120	Ankara	Turkey
—	<i>185</i>	<i>1,622</i>	<i>70</i>	<i>Berlin</i>	<i>E. Germany</i>
5	191	1,571	200	Motala	Sweden
6	200	1,500	400	Droitwich, Worcs.	G. Britain
			—	<i>Moscow, Russia</i>	<i>U.S.S.R.</i>
7	209	1,435	150	Kiev, Ukraine	U.S.S.R.
8	218	1,376	100	Oslo	Norway
9	227	1,322	200	Warsaw	Poland
—	<i>233</i>	<i>1,288</i>	<i>150</i>	<i>Luxembourg</i>	<i>Luxembourg</i>
10	236	1,271	†	Leningrad, Russia	U.S.S.R.
11	245	1,224	60	Kalundborg	Denmark
12	254	1,181	200	Lahti	Finland
13	263	1,141	100	Leningrad, Russia	U.S.S.R.
14	272	1,103	200	Uherske Hradiste	Czechoslovakia
15	281	1,067	100	Minsk, Byelorussia	U.S.S.R.
—	<i>385</i>	<i>779</i>	<i>100</i>	<i>Kharkov, Ukraine</i>	<i>U.S.S.R.</i>
—	<i>400</i>	<i>750</i>	—	<i>Minsk, Byelorussia</i>	<i>U.S.S.R.</i>

Chan.	kc/s	Metres	kW	Station and Country	
X1	420	714.3	10	Ostersund	Sweden
X2	433	693	10	Oulu	Finland
—	511	587	0.05	Hermagor, U.S.S.R. Zone	Austria
—	519	578	0.2	Graz, Brit. Zone	Austria
X3	520	567.9	0.35	Innsbruck, Fr. Zone	Austria
			1	Joensuu	Finland
			0.2	Bayreuth (N)	W. Germany
			5	Nuremberg (D)	W. Germany
			1	Hamar	Norway
1	529	567.1	150	Beromunster	Switzerland
2	539	556.6	135	Budapest	Hungary
3	548	547.4	100	Munich (A.F.)	W. Germany
			150	Moscow, Russia	U.S.S.R.
4	557	538.6	†	Cairo	Egypt
			100	Helsinki	Finland
			50	Timisoara	Rumania
			50	Monte Ceneri	Switzerland
—	563	532.8	1	Graz (B.F.), Brit. Zone	Austria
—	565	531	1	Klagenfurt (B.F.), Brit. Zone	Austria
5	566	530	15	Vienna, Brit. Zone	Austria
			0.03	Bludenz, French Zone	Austria
			100	Athlone	Eire
			20	Berlin	W. Germany
			25	Caltanissetta	Italy
6	575	521.7	—	Berlin	E. Germany
			100	Stuttgart	W. Germany
			10	Tel Aviv	Israel
			100	Riga, Latvia	U.S.S.R.
7	584	513.6	35	Vienna, U.S.S.R. Zone	Austria
			1	Paris	France
8	593	505.9	60	Sofia	Bulgaria
			100	Frankfurt	W. Germany
			20	Hoher Meissner	W. Germany
			15	Madrid	Spain
			150	Sundsvall	Sweden
9	602	498.3	100	Lyons	France

Chan.	kc/s	Metres	kW	Station and Country
(9)	(602)	(498.3)	2	Damascus Syria
	606	495	—	Limassol (B.F.) Cyprus
10	611	491	20	Potsdam (R.F.) E. Germany
			1	Berlin (A.F.) W. Germany
			10	Nuremberg (A.F.) W. Germany
			5	Eidar Iceland
			120	Rabat Fr. Morocco
			20	Krasnodar, Russia U.S.S.R.
			100	Petrozavodsk, Finno-Karelia U.S.S.R.
			20	Sarajevo Yugoslavia
—	616	487	0.1	Eisenerz, Brit. Zone Austria
11	620	483.9	0.1	Bad-Aussee, Brit. Zone Austria
			0.1	Murau, Fr. Zone Austria
			150	Brussels Belgium
			50	Cairo Egypt
			†	Moalatya Turkey
			—	Gorki, Russia U.S.S.R.
12	629	476.9	9	Dornbirn, Fr. Zone Austria
			6	Innsbruck, Fr. Zone Austria
			—	5 L.P. Stations, Fr. Zone Austria
			100	Vigra Norway
			20	Tunis Tunisia
13	638	470.2	120	Prague Czechoslovakia
			—	Seville Spain
14	647	463.7	150	Crowborough, Sussex G. Britain
			150	Daventry, Worcs. G. Britain
			—	Sync. Network G. Britain
			100	Simferopol, Russia U.S.S.R.
15	656	457.3	20	Bolzano Italy
			100	Florence Italy
			100	Naples Italy
			80	Turin Italy
			20	Venice Italy
			150	Murmansk, Russia U.S.S.R.
16	665	451.1	15	Graz, Brit. Zone Austria

Chan.	kc/s	Metres	kW	Station and Country	
(16)	(665)	(451.1)	10	Bayreuth (A.F.)	W. Germany
			5	Kaiserslautern (A.F.)	W. Germany
			5	Athens	Greece
			0.7	Hoefn	Iceland
			12	Lisbon	Portugal
17	674	445.1	50	Damascus	Syria
			100	Vilna, Lithuania	U.S.S.R.
			1	Zell-am-See (A.F.), U.S. Zone	Austria
			100	Rennes	France
			10	Bodo	Norway
—	677	443.1	—	Chernovtsy, Ukraine	U.S.S.R.
			20	Jerusalem	Jordan
18	683	439.2	—	Halle	E. Germany
			40	Hof	W. Germany
19	692	433.5	150	Belgrade	Yugoslavia
			0.03	Admont, Brit. Zone	Austria
			0.1	Bruck a.d. Mur, Brit. Zone	Austria
			0.02	Zwettl, Brit. Zone	Austria
			10	Nicosia	Cyprus
20	701	428	150	Moorside Edge, Yorks	G. Britain
			0.25	Whitehaven, Cumberland	G. Britain
			25	Banska Bystrica	Czechoslovakia
			—	Bratislava	Czechoslovakia
			2	Kosice	Czechoslovakia
21	710	422.5	5	Aachen	W. Germany
			2	Brunswick	W. Germany
			2	Herford	W. Germany
			2	Norden	W. Germany
			120	Rabat	Fr. Morocco
			20	Finnmark	Norway
			30	Corunna	Spain
			150	Istanbul	Turkey
			0.05	Obervillach, Brit. Zone	Austria

Chan.	kc/s	Metres	kW	Station and Country	
(21)	(710)	(422.5)	100	Marseilles	France
			150	Stalino, Ukraine	U.S.S.R.
			20	Tartu, Estonia (D)	U.S.S.R.
22	719	417.2	—	7 L.P. Stations, Brit. Zone	
					Austria
			135	Munich	W. Germany
			40	Lisbon	Portugal
			0.2	Malmberget	Sweden
23	728	412.1	20	Aleppo	Syria
			7	Klagenfurt, Brit. Zone	Austria
			20	Schwerin	E. Germany
			50	Athens	Greece
			1.25	Tangier	Tangier
24	737	407	1	Bad Mergentheim	W. Germany
			5	Akureyri	Iceland
			20	Jerusalem	Israel
			50	Katovice	Poland
			120	Madrid	Spain
25	746	402.1	120	Hilversum	Netherlands
26	755	397.3	100	Vienna, U.S. Zone	Austria
			30	Kuopio	Finland
			1.5	Flensburg	W. Germany
			2	Siegen	W. Germany
			10	Oporto	Portugal
			50	Timisoara	Rumania
			100	Sottens	Switzerland
100	Rostov-on-Don, Russia	U.S.S.R.			
28	773	388.1	100	Linz, U.S. Zone	Austria
			50	Cairo	Egypt
			5	Seville	Spain
			55	Stockholm	Sweden
29	782	383.6	0.1	Chur*	Switzerland
			300	Berlin	E. Germany
			100	Kiev, Ukraine (D)	U.S.S.R.
			2	Vatican City	Vatican City

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

Chan.	kc/s	Metres	kW	Station and Country	
30	791	379.2	100	Limoges	France
			50	Salonika	Greece
31	800	375	100	Munich	W. Germany
			20	Weimar	E. Germany
			0.21	Regua	Portugal
			100	Leningrad, Russia	U.S.S.R.
32	809	370.8	100	Burghead, Scotland	G. Britain
			0.5	Dumfries, Scotland	G. Britain
			5	Redmoss, Scotland	G. Britain
			100	Westerglen, Scotland	G. Britain
			20	Skoplje	Yugoslavia
			1.2	Ajdovscina	Yugoslavia
	814	368.6	9	Barcelona	Spain
33	818	366.7	100	Warsaw	Poland
			10	Trieste	Trieste
	822	364.9	60	Andorra	Andorra
34	827	362.8	100	Sofia	Bulgaria
			1.5	Baden-Baden	W. Germany
			18	Freiburg	W. Germany
			2	Kaiserslautern	W. Germany
			0.5	Koblenz	W. Germany
			—	Sigmaringen	W. Germany
			1	Trier	W. Germany
			—	Kaunas, Lithuania	U.S.S.R.
	832	360.5	—	Potsdam	W. Germany
35	836	358.9	0.2	Helsinki	Finland
			20	Ylivieska	Finland
			20	Nancy	France
			20	Beirut	Lebanon
			2	Huelva	Spain
36	845	355	150	Rome	Italy
37	854	351.3	5	Berlin (A.F.)	W. Germany
			0.35	Fulda (A.F.)	W. Germany
			150	Bucharest	Rumania
			13	Madrid	Spain
	868	345.6	1	Vienna (B.F.), Brit. Zone	Austria
38	863	347.6	150	Paris	France

Chan.	kc/s	Metres	kW	Station and Country
39	872	344	150	Frankfurt (A.F.) W. Germany
			30	Zaragoza Spain
40	881	340.5	150	Moscow, Russia (N) U.S.S.R.
			—	Innsbruck (A.F.), Fr. Zone
				Austria
			1	Salzburg (A.F.), U.S. Zone
				Austria
			8	Penmon, Wales G. Britain
			5	Towyn, Wales G. Britain
			100	Washford, Som. G. Britain
			0.25	Wrexham, Wales G. Britain
			1	Benghazi (B.F.) Libya
41	890	337.1	20	Titograd Yugoslavia
			1	Linz (A.F.), U.S. Zone Austria
			50	Algiers Algeria
			20	Bergen Norway
			20	Kristiansand Norway
			20	Trondheim Norway
42	899	333.7	100	Ouchgorod, Ukraine U.S.S.R.
			150	Milan Italy
—	904	331.9	—	Tetuan Spanish Morocco
43	908	330.4	140	Brookmans Park, London
				G. Britain
—	910	329.7	2	Dresden E. Germany
44	917	327.2	10	Madrid Spain
			135	Ljubljana Yugoslavia
—	923	325	1.5	Nis Yugoslavia
45	926	324	150	Brussels Belgium
46	935	320.9	50	Tangier Tangier
			100	Lwow, Ukraine U.S.S.R.
47	944	317.8	100	Toulouse France
			20	Voronezh, Russia U.S.S.R.
48	953	314.8	100	Brno Czechoslovakia
			5	Ceske-Budejovice
				Czechoslovakia
49	962	311.9	15	Plzen Czechoslovakia
			40	Turku Finland
			5	Paris France
			0.4	Hof W. Germany

Chan.	kc/s	Metres	kW	Station and Country	
(49)	(962)	(311.9)	120	Tunis	<i>Tunisia</i>
50	971	309	5	Goettingen	<i>W. Germany</i>
			50	Hamburg	<i>W. Germany</i>
			50	Langenburg	<i>W. Germany</i>
			†	Izmir	<i>Turkey</i>
			†	Kalinin, Russia	<i>U.S.S.R.</i>
			†	Smolensk, Russia	<i>U.S.S.R.</i>
51	980	306.1	50	Algiers	<i>Algeria</i>
			1	Assiut	<i>Egypt</i>
			150	Goteborg	<i>Sweden</i>
			2.5	Trieste	<i>Trieste</i>
52	989	303.3	†	Rovaniemi	<i>Finland</i>
			—	Erfurt	<i>E. Germany</i>
			100	Berlin	<i>W. Germany</i>
			†	Beirut	<i>Lebanon</i>
53	998	300.6	8	Heidelberg	<i>W. Germany</i>
			8	Malaga	<i>Spain</i>
			100	Kishinev, Moldavia	<i>U.S.S.R.</i>
—	1,006	298.2	1	Salonika	<i>Greece</i>
54	1,007	297.9	120	Hilversum	<i>Netherlands</i>
			†	Aleppo	<i>Syria</i>
55	1,016	295.3	0.75	Dresden	<i>E. Germany</i>
			70	Mainz	<i>W. Germany</i>
			†	Instanbul	<i>Turkey</i>
56	1,025	292.7	100	Dobl, Brit. Zone	<i>Austria</i>
			†	Jerusalem	<i>Israel</i>
			—	Madrid	<i>Spain</i>
			1	San Sebastian	<i>Spain</i>
57	1,034	290.1	1	Vienna (A.F.), U.S. Zone	<i>Austria</i>
			0.35	Ansbach (A.F.)	<i>W. Germany</i>
			0.35	Bad Kissingen (A.F.)	<i>W. Germany</i>
			5	Bremen (A.F.)	<i>W. Germany</i>
			0.35	Kassel (A.F.)	<i>W. Germany</i>
			5	Genoa	<i>Italy</i>
			10	Milan	<i>Italy</i>
			5	Naples	<i>Italy</i>
			25	Pescara	<i>Italy</i>

Chan.	kc/s	Metres	kW	Station and Country	
(57)	(1,034)	(290.1)	5	Venice	Italy
			30	Lisbon	Portugal
			100	Tallinn, Estonia	U.S.S.R.
58	1,043	287.6	100	Leipzig	E. Germany
			2	Salonika	Greece
			20	Rabat	Fr. Morocco
59	1,052	285.2	0.25	Barnstaple, Devon	G. Britain
			120	Start Point, Devon	G. Britain
			7.5	Tripoli (B.F.)	Libya
			5	Bucharest	Rumania
60	1,061	282.8	60	Kalundborg	Denmark
			5	Cagliari	Italy
			†	Lisbon	Portugal
61	1,070	280.4	20	Marseilles	France
			100	Paris	France
			20	Dnicpropetrovsk, Ukraine	U.S.S.R.
62	1,079	278	0.1	Bremerhaven	W. Germany
			50	Breslau	Poland
			50	Tangier	Tangier
63	1,088	275.7	10	Korca	Albania
			—	5 L.P. Stations, Brit. Zone	Austria
			150	Droitwich, Worcs.	G. Britain
			7.5	Norwich, Norfolk	G. Britain
64	1,097	273.5	150	Bratislava	Czechoslovakia
—	1,100	272.7	1	Toledo	Spain
65	1,106	271.2	100	Stuttgart (A.F.)	W. Germany
			100	Moghilev, Byelorussia	U.S.S.R.
66	1,115	269.1	—	Aosta	Italy
			40	Bari	Italy
			50	Bologna	Italy
			25	Pisa	Italy
			—	Sync. Network	Norway
—	1,122	267.4	1	Alexandria	Egypt
67	1,124	266.9	10	Brussels	Belgium
			5	Varna	Bulgaria

Chan.	kc/s	Metres	kW	Station and Country	
(67)	(1,124)	(266.9)	1	Barcelona	Spain
			20	Viborg, Finno-Karelia	U.S.S.R.
—	1,132	265	2.5	Bilbao	Spain
68	1,133	264.8	135	Zagreb	Yugoslavia
69	1,142	262.7	20	Constantine	Algeria
			1	Bremerhaven (A.F.)	W. Germany
			0.35	Coburg (A.F.)	W. Germany
			0.35	Fuessen (A.F.)	W. Germany
			0.35	Hersfeld (A.F.)	W. Germany
			0.35	Wurzburg (A.F.)	W. Germany
			0.1	Sool	Switzerland
			20	Kaliningrad, Russia	U.S.S.R.
70	1,151	260.6	0.1	Murzzuschlag, Brit. Zone	Austria
			100	Lisnagarvey, N. Ireland	G. Britain
			0.25	Londonderry, N. Ireland	G. Britain
			0.25	Scarborough, Yorks	G. Britain
			100	Stagshaw, Northumberl'd	G. Britain
			20	Cluj	Rumania
			5	Oradea	Rumania
71	1,160	258.6	150	Strasbourg	France
72	1,169	256.6	5	Heilbronn	W. Germany
			5	Ulm	W. Germany
			1	Oporto	Portugal
			5	Trieste	Trieste
			—	Kiev, Ukraine (N)	U.S.S.R.
			150	Odessa, Ukraine	U.S.S.R.
73	1,178	254.7	100	Horby	Sweden
			1	Tangier	Tangier
—	1,184	253.4	—	Alcoy	Spain
74	1,187	252.7	135	Budapest	Hungary
75	1,196	250.8	20	Halle	E. Germany
			150	Munich	W. Germany

Chan.	kc/s	Metres	kW	Station and Country	
(75)	(1,196)	(250.8)	†	Kerkyra	Greece
			†	3 Stations	French Morocco
76	1,205	249	100	Bordeaux	France
			5	Haifa	Israel
			6	Poznan	Poland
77	1,214	247.1	1	Punta Delgada	Azores
			10	Berlin (B.F.)	W. Germany
			20	Hanover (B.F.)	W. Germany
			10	Herford (B.F.)	W. Germany
			20	Langenberg (B.F.)	W. Germany
			20	Pinneberg (B.F.)	W. Germany
			60	Brookmans Park, London	G. Britain
			20	Burghead, Scotland	G. Britain
			10	Lisnagarvey, N. Ireland	G. Britain
			0.25	Londonderry, N. Ireland	G. Britain
			58	Moorside Edge, Yorks	G. Britain
			2	Newcastle-upon-Tyne, Northumberland	G. Britain
			0.3	Plymouth, Devon	G. Britain
			2	Redmoss, Scotland	G. Britain
			2	Redruth, Cornwall	G. Britain
			50	Westerglen, Scotland	G. Britain
			20	Kursk, Russia	U.S.S.R.
			—	Tartu, Estonia (N)	U.S.S.R.
78	1,223	245.3	0.1	Tulln (A.F.)	U.S. Zone
			20	Stara Zagora	Austria
			0.35	Bamberg (A.F.),	Bulgaria
			0.35	Berchtesgaden (A.F.)	W. Germany
					W. Germany
			0.35	Bitburg (A.F.)	W. Germany
			0.35	Eschwege (A.F.)	W. Germany
				Heidelberg (A.F.),	W. Germany

Chan.	kc/s	Metres	kW	Station and Country	
(78)	(1,223)	(245.3)	0.35	Regensburg (A.F.)	W. Germany
			0.35	Sonthofen (A.F.)	W. Germany
			1	Oporto	Portugal
			5	Barcelona	Spain
			100	Falun	Sweden
79	1,232	243.5	0.5	Halsingborg	Sweden
			100	Kosice	Czechoslovakia
			11	Moravska-Ostrava	Czechoslovakia
80	1,241	241.7	50	Tangier	Tangier
			10	Vaasa	Finland
			20	Lille	France
			20	Lyons	France
			20	Nancy	France
			1	Nice	France
			20	Pau	France
			20	Quimerch	France
			20	Rennes	France
			20	Tiraspol, Moldavia	U.S.S.R.
81	1,250	240	5	Salzburg, U.S. Zone	Austria
			—	4 L.P. Stations, U.S. Zone	Austria
			†	2 Stations	Egypt
			1	Cork	Eire
			1	Dublin	Eire
—	1,258	238.5	5	Nyiregyhaza	Hungary
			5	Valencia	Spain
82	1,259	238.3	50	Stettin	Poland
			0.2	Linares	Spain
83	1,268	236.6	20	Belgrade	Yugoslavia
84	1,277	234.9	100	Strasbourg	France
85	1,286	233.3	100	Melnik	Czechoslovakia
			2	Lisbon	Portugal
—	1,288	232.9	0.2	Oviedo	Spain
—	1,292	232.1	9	Corunna	Spain
86	1,295	231.7	100	Norden	W. Germany
			150	Ottringham, Yorks	G. Britain

Chan.	kc/s	Metres	kW	Station and Country	
87	1,304	230.1	20	Constantine	<i>Algeria</i>
			0.2	Oran	<i>Algeria</i>
			1	Gdansk	<i>Poland</i>
			0.75	Trieste (A.F.)	<i>Trieste</i>
—	1,312	228.6	0.15	Klagenfurt, Brit. Zone	<i>Austria</i>
88	1,313	228.4	0.05	Mariazell, Brit. Zone	<i>Austria</i>
			100	Stavanger	<i>Norway</i>
—	—	—	—	Badalona	<i>Spain</i>
—	1,318	227.6	—	Cadiz	<i>Spain</i>
89	1,322	226.9	2	Leipzig	<i>E. Germany</i>
			—	Santarem	<i>Portugal</i>
			—	Salamanca	<i>Spain</i>
			†	Ouchgorod, Ukraine	<i>U.S.S.R.</i>
90	1,331	225.4	20	Bari	<i>Italy</i>
			25	Bologna	<i>Italy</i>
			0.25	Catania	<i>Italy</i>
			50	Genoa	<i>Italy</i>
			5	Messina	<i>Italy</i>
			10	Palermo	<i>Italy</i>
			25	Pescara	<i>Italy</i>
			80	Rome	<i>Italy</i>
91	1,340	223.9	†	Alexandria	<i>Egypt</i>
			150	Crowborough, Sussex	<i>G. Britain</i>
			—	Budapest	<i>Hungary</i>
			0.4	Magyarovar	<i>Hungary</i>
			1.25	Miskolc	<i>Hungary</i>
			1.25	Pecs	<i>Hungary</i>
			—	1,342	223.5
—	1,348	222.3	10	Cairo	<i>Egypt</i>
92	1,349	222.4	20	Clermont	<i>France</i>
			20	Dijon	<i>France</i>
			20	Grenoble	<i>France</i>
			20	Limoges	<i>France</i>
			20	Nantes	<i>France</i>
			20	Toulouse	<i>France</i>
			—	Jerusalem	<i>Israel</i>
			20	Kuldiga, Latvia	<i>U.S.S.R.</i>
			20	Madona, Latvia	<i>U.S.S.R.</i>

Chan.	kc/s	Metres	kW	Station and Country				
93	1,358	220.9	50	Tirana	Albania			
			20	Bremen	W. Germany			
			1	Faro	Portugal			
94	1,367	219.5	0.35	St. Johann (A.F.),	U.S. Zone			
			†	Thorshavn	Austria			
			1	Bonn (B.F.)	Faroe Is.			
			—	Sync. Network	W. Germany			
			24	Torun	Italy			
			0.25	Coimbra	Poland			
			0.5	Basle	Portugal			
			0.5	Saviese	Switzerland			
			—	1,371	218.8	0.2	Cordoba	Switzerland
			—	1,376	218	100	Lille	Spain
—	1,379	217.5	2	Priscina	France			
96	1,385	216.6	5	Valencia	Yugoslavia			
			1	Trieste (B.F.)	Spain			
			150	Kaunas, Lithuania (N)	Trieste			
—	1,391	215.7	—	Oviedo-Falangista	U.S.S.R.			
97	1,394	215.2	0.05	Bad-Ischl, U.S. Zone	Spain			
			0.05	Windischgarten, U.S. Zone	Austria			
			†	Rhodes	Austria			
98	1,403	213.8	—	Sync. Network	Greece			
			20	Bordeaux	Sweden			
			20	Louvetot	France			
			10	Montpellier	France			
			20	Nice	France			
			20	Quimerch	France			
			†	Komotini	France			
			†	Baranovichi, Byelorussia	Greece			
—	1,410	212.8	1	Jaen	U.S.S.R.			
99	1,412	212.5	0.25	St. Polten, U.S.S.R. Zone	Spain			
			—	—	Austria			
			2	Bitolja	Yugoslavia			
			0.8	Dubrovnik	Yugoslavia			
			2	Maribor	Yugoslavia			

Chan.	kc/s	Metres	kW	Station and Country	
(99)	(1,412)	(212.5)	2	Novi Sad	Yugoslavia
			1.5	Rijeka	Yugoslavia
—	1,417	211.7	—	Zamora	Spain
—	1,418	211.5	—	Gandia	Spain
—	1,420	211.2	0.25	Fayid (B.F.)	Egypt
100	1,421	211.1	20	Saarbrucken	W. Germany
			†	Sfax	Tunisia
			†	Chernigov, Ukraine	U.S.S.R.
—	1,422	211	1	Tlemcen	Algeria
—	1,425	210.5	—	Castellon	Spain
—	1,425	210.5	—	Vitoria	Spain
—	1,429	209.9	—	Sabadell	Spain
101	1,430	209.8	†	Argyrocastro	Albania
			30	Copenhagen	Denmark
			70	Skive	Denmark
			0.2	Reus	Spain
—	1,437	208.8	—	Denia	Spain
102	1,439	208.5	150	Luxembourg	Luxembourg
			0.5	Palma de Mallorca	Spain
103	1,448	207.2	5	Ancona	Italy
			5	Catania	Italy
			3	Florence	Italy
			10	Palermo	Italy
			5	San Remo	Italy
			—	Sassari	Italy
			20	Turin	Italy
			†	Sync. Network	Portugal
			—	Ciudad Real	Spain
			—	Gerona	Spain
			—	Granada	Spain
			—	Sync. Network	Sweden
—	1,453	206.4	1	Alicante	Spain
104	1,457	205.9	0.05	Landeck, Fr. Zone	Austria
			—	4 L.P. Stations, U.S.S.R. Zone	Austria
			10	Bartley, Hants	G. Britain
			20	Clevedon, Som.	G. Britain
			—	4 L.P. Stations	G. Britain
			0.15	Caramulo	Portugal

Chan.	kc/s	Metres	kW	Station and Country	
(104)	(1,457)	(205.9)	20	Craiova	Rumania
			—	Orense	Spain
105	1,466	204.6	120	Monte Carlo	Monaco
			—	Sync. Network	Norway
—	1,470	204.1	—	Santander	Spain
106	1,475	203.4	2	Vienna, U.S.S.R. Zone	Austria
			0.15	Galicia	Spain
			—	Huesca	Spain
—	1,480	202.7	1	Port Lyautey	Fr. Morocco
107	1,484	202.2	—	International	Common
					Frequency
108	1,493	200.9	1	Marseilles	France
			1.5	Nancy	France
			10	Nantes	France
			1	Strasbourg	France
			0.4	Albacete	Spain
			—	Alcira	Spain
			—	Jerez de la Frontera	Spain
			0.5	Valladolid	Spain
			†	Gomel, Byelorussia	U.S.S.R.
—	1,500	200	0.05	Lages Field (A.F.)	Azores
—	1,500	200	—	Porteverda	Spain
—	1,500	200	—	Tarrasa	Spain
109	1,502	199.7	0.35	Garmisch (A.F.)	W. Germany
			0.35	Giessen (A.F.)	W. Germany
			0.35	Hof (A.F.)	W. Germany
			20	Landau	W. Germany
			10	Cracow	Poland
			0.2	Segovia	Spain
—	1,506	199.2	—	Murcia	Spain
110	1,511	198.5	10	Brusse's	Belgium
			0.15	Patras	Greece
—	1,514	198.1	—	Lerida	Spain
—	1,515	198.0	0.2	Leon	Spain
111	1,520	197.4	15	Karlovy-Vary	Czechoslovakia
			20	Ostrava	Czechoslovakia
			†	Corunna	Spain
112	1,529	196.2	†	Funchal	Madeira
			—	Vil anueva	Spain

Chan.	kc/s	Metres	kW	Station and Country	
(112)	(1,529)	(196.2)	—	Sync. Network	Sweden
			5	Vatican City	Vatican City
113	1,538	195.1	20	Bad Durrheim	W. Germany
			40	Ravensburg	W. Germany
			5	Reutlingen	W. Germany
			†	Sync. Network	Spain
114	1,546	194.1	—	Sync. Network	G. Britain
			†	Vinnitza, Ukraine	U.S.S.R.
115	1,554	193.1	75	Nice	France
			†	U.S. Zone (A.F.)	Germany
			†	Turi, Estonia	U.S.S.R.
116	1,562	192.1	5	Oporto	Portugal
			—	Sync. Network	Sweden
			†	Sync. Network	Switzerland
117	1,570	191.1	0.08	Santa Maria	Azores
			100	Berlin	E. Germany
			—	Cuenca	Spain
			—	Tarragona	Spain
			†	Sfax	Tunisia
			2	Lingen	W. Germany
118	1,578	190.1	—	Sync. Network	Italy
			10	Fredrikstad	Norway
—	1,584	202.2	0.2	Ljubljana	Yugoslavia
119	1,586	189.1	5	Bonn	W. Germany
			20	Hanover	W. Germany
			5	Kiel	W. Germany
			0.1	Munster	W. Germany
			40	Oldenburg	W. Germany
			5	Osnabruck	W. Germany
			†	Sync. Network	Spain
—	1,592	188.4	—	Tripoli (A.F.)	Libya
120	1,594	188.2	—	International Common	Frequency
121	1,602	187.3	40	Nuremburg	W. Germany
			†	Sync. Network	Norway
			†	Sync. Network	Portugal

Geographical List of Long- and Medium- Wave European Stations

	kc/s		kc/s
ALBANIA		Innsbruck	520
Korca	1,088	"	629
Tirana	1,358	"	881
ALGERIA		Landeck	1,457
Algiers	890	Murau	620
"	980	5 L.P. Stations	629
Constantine	1,142	<i>(U.S. Zone)</i>	
"	1,304	Bad-Ischl	1,394
Oran	1,304	Linz	773
"	1,484	"	890
Tlemcen	1,422	St. Johann	1,367
ANDORRA	822	Salzburg	881
AUSTRIA		"	1,250
<i>(British Zone)</i>		Tulln	1,223
Admont	692	Vienna	755
Bad-Aussee	620	"	1,034
Bruck a.d. Mur	692	Windischgarten	1,394
Dobl	1,025	Zell-am-See	674
Eisenerz	616	4 L.P. Stations	1,250
Graz	519	<i>(U.S.S.R. Zone)</i>	
"	563	Hermagor	511
"	665	St. Polten	1,412
Klagenfurt	565	Vienna	584
"	728	"	1,475
"	1,312	4 L.P. Stations	1,457
Mariazell	1,313	AZORES	
Murzzuschlag	1,151	Angra de Herosimo	1,484
Obervillach	710	Lages Field	1,500
Vienna	566	Punta Delgada	1,214
"	868	Santa Maria	1,570
Zwettl	692	BELGIUM	
7 L.P. Stations	719	Brussels	620
5 L.P. Stations	1,088	"	926
<i>(French Zone)</i>		"	1,124
Bludenz	566	"	1,511
Dornbirn	629		

	kc/s		kc/s
Belgium—cont.		EGYPT	
Kortrijk	1,484	Alexandria	1,122
Liege	1,484	Assiut	980
BULGARIA		Cairo	620
Sofia	593	"	773
"	827	"	1,348
Stara Zagora	1,223	Fayid	1,420
Varna	1,124	EIRE	
CYPRUS		Athlone	566
Limassol	606	Cork	1,250
Nicosia	692	Dublin	1,250
CZECHOSLOVAKIA		FINLAND	
Banska Bystrica	701	Helsinki	557
Bratislava	701	"	836
"	1,097	"	1,484
Brno	953	Joensuu	520
"	1,484	Karjaa	1,594
Ceske-Budejovice	953	Kuopio	755
Hradec-Kralove	1,484	Lahti	254
Jihlava	1,484	Oulu	433
Karlovy-Vary	1,520	Turku	962
Kosice	701	Vaasa	1,241
"	1,232	Ylivieska	836
Melnik	1,286	5 L.P. Stations	1,484
Moravska-Ostrava	1,232	FRANCE	
Ostrava	1,520	Allouis	164
Plzen	953	Bordeaux	1,205
Prague	638	"	1,403
Uherske Hradiste	272	Clermont	1,349
4 L.P. Stations	1,484	Dijon	1,349
DENMARK		Grenoble	1,349
Aalborg	1,484	Lille	1,241
Copenhagen	1,430	"	1,376
"	1,484	Limoges	791
Esbjerg	1,594	"	1,349
Kalundborg	245	Louvetot	1,403
"	1,061	Lyons	602
Skive	1,430	"	1,241
Tonder	1,484	Marseilles	710

	kc/s		kc/s
France—cont.			
Marseilles	1,070	Plauen	1,484
”	1,493	Potsdam	611
Montpellier	1,403	”	832
Nancy	836	Schwerin	728
”	1,241	Weimar	800
”	1,493	GERMANY, WEST	
Nantes	1,349	Aachen	701
”	1,493	Ansbach	1,034
Nice	1,241	Bad Durrheim	1,538
”	1,403	Bad Kissingen	1,034
”	1,554	Bad Mergentheim	737
Nimes	1,594	Baden-Baden	827
Paris	584	Bamberg	1,223
”	863	Bayreuth (N)	520
”	962	”	665
”	1,070	Berchtesgaden	1,223
Pau	1,241	Berlin	566
Quimerch	1,241	”	611
”	1,403	”	854
Rennes	674	”	989
”	1,241	”	1,214
Strasbourg	1,160	Bitburg	1,223
”	1,277	Bonn	1,367
”	1,493	”	1,586
Toulon	1,594	Bremen	1,034
Toulouse	944	”	1,358
”	1,349	Bremerhaven	1,079
7 L.P. Stations	1,484	”	1,142
GERMANY, EAST		Brunswick	701
Berlin	185	Coburg	1,142
”	575	”	1,484
”	782	Eschwege	1,223
”	1,570	Flensburg	755
Dresden	910	Frankfurt	593
”	1,016	”	872
Erfurt	989	Freiburg	827
Halle	683	Fuessen	1,142
”	1,196	Fulda	854
Leipzig	1,043	Garmisch	1,502
”	1,322	Giessen	1,502

Germany, W.—cont.	kc/s		kc/s
Goettingen	971	Pinneberg	1,214
Hamburg	151	Ravensburg	1,538
„	971	Regensburg	1,223
Hanover	1,214	„	1,484
„	1,586	Reutlingen	1,538
Heidelberg	998	Saarbrucken	1,421
„	1,223	Siegen	755
Heilbronn	1,169	Sigmaringen	827
Herford	701	Sonthofen	1,223
„	1,214	Stuttgart	575
Hersfeld	1,142	„	1,106
Hof	683	Trier	827
„	962	Ulm	1,169
„	1,502	Weiden	1,484
Hoher Meissner	593	Wurzburg	1,142
Kaiserslautern	665	„	1,484
„	827		
Kassel	1,034	GREAT BRITAIN	
Kempten	1,484	Barnstaple, Devon	1,052
Kiel	1,586	Bartley, Hants	1,457
Koblenz	827	Brookmans Park, L'don	908
Landau	1,502	„	1,214
Landshut	1,484	Burghead, Scotland	809
Langenberg	971	„	1,214
„	1,214	Clevedon, Somerset	1,457
Lingen	1,570	Crowborough, Sussex	647
Mainz	1,016	„	1,340
Munich	548	Droitwich, Worcs.	200
„	719	Daventry, Worcs.	647
„	800	„	1,088
„	1,196	Dumfries, Scotland	809
Munster	1,586	Lisnagarvey, N.I.	1,151
Norden	701	„	1,214
„	1,295	Londonderry, N.I.	1,151
Nuremberg (D)	520	„	1,214
„	611	Moorside Edge, Yorks	692
„	1,602	„	1,214
Oldenburg	1,586	Newcastle-upon-Tyne	1,214
Osnabruck	1,586	Norwich, Norfolk	1,088
Passau	1,484	Ottringham, Yorks	1,295

	kc/s		kc/s
Gt. Britain—cont.			
Penmon, Wales	881	ISRAEL	
Plymouth, Devon	1,214	Haifa	1,205
Redmoss, Scotland	809	Jerusalem	737
”	1,214	”	1,349
Redruth, Cornwall	1,214	Tel Aviv	575
Scarborough, Yorks	1,151	ITALY	
Stagshaw, North'd	1,151	Ancona	1,448
Start Point, Devon	1,052	Aosta	1,115
Towyn, Wales	881	Bari	1,115
Washford, Somerset	881	”	1,331
Westerglen, Scotland	809	Bologna	1,115
”	1,214	”	1,331
Whitehaven, Cumbld.	692	Bolzano	656
Wrexham, Wales	881	Cagliari	1,061
Sync. Network	647	Caltanissetta	566
Sync. Network	1,546	Catania	1,331
4 L.P. Stations	1,457	”	1,448
3 L.P. Stations	1,484	Florence	656
GREECE		”	1,448
Athens	665	Genoa	1,034
”	728	”	1,331
Patras	1,511	Messina	1,331
Salonika	791	Milan	899
”	1,006	”	1,034
”	1,043	Naples	656
Volos	1,484	”	1,034
HUNGARY		Palermo	1,331
Budapest	539	”	1,448
”	1,187	Pescara	1,034
”	1,340	”	1,331
Magyarovar	1,340	Pisa	1,115
Miskolc	1,340	Rome	845
Nyiregyhaza	1,250	”	1,331
Pecs	1,340	San Remo	1,448
ICELAND		Sassari	1,448
Akureyri	737	Turin	656
Eidar	611	”	1,448
Hoefn	665	Venice	656
Keflavik	1,484	”	1,034
Reykjavik	182	Sync. Network	1,367

	kc/s		kc/s
Italy—cont.			
Sync. Network	1,578	Hamar	520
5 L.P. Stations	1,484	Kristiansand	890
JORDAN		Oslo	218
Jerusalem	677	Stavanger	1,313
LEBANON		Tromso	155
Beirut	836	Trondheim	890
LIBYA		Vigra	629
Benghazi	881	Sync. Network	1,115
Tripoli	1,052	Sync. Network	1,466
"	1,592	3 L.P. Stations	1,484
LUXEMBOURG		POLAND	
Luxembourg	233	Breslau	1,079
"	1,439	Cracow	1,502
MADEIRA		Gdansk	1,304
Funchal	1,484	Katovice	737
"	1,594	Lodz	1,484
MONACO		Poznan	1,205
Monte Carlo	1,466	Stettin	1,259
MOROCCO, FRENCH		Torun	1,367
Port Lyautey	1,480	Warsaw	227
Rabat	611	"	818
"	701	PORTUGAL	
"	1,043	Caramulo	1,457
MOROCCO, SPANISH		Coimbra	1,367
Tetuan	904	Faro	1,358
NETHERLANDS		Lisbon	665
Hengelo	1,594	"	719
Hilversum	746	"	1,034
"	1,007	"	1,286
Hoogezand	1,594	"	1,594
Hulsbergen	1,594	Oporto	755
NORWAY		"	1,169
Bergen	890	"	1,223
Bodo	674	"	1,562
Finnmark	701	Regua	800
Fredrikstad	1,578	Santarem	1,322
		RUMANIA	
		Brasov	155
		Bucharest	854

	kc/s		kc/s
Rumania—cont.			
Bucharest	1,052	Madrid	917
Cluj	1,151	„	1,025
Craiova	1,457	Malaga	998
Oradea	1,151	Manresa	1,342
Timisoara	557	Murcia	1,506
„	755	Orense	1,457
		Oviedo	1,288
SPAIN		Oviedo-Falangista	1,391
Albacete	1,493	Palma de Mallorca	1,439
Alcira	1,493	Porteverda	1,500
Alcoy	1,184	Reus	1,430
Alicante	1,453	Sabadell	1,429
Badajoz	1,484	Salamanca	1,322
Badalona	1,313	San Sebastian	1,025
Barcelona	814	Santander	1,470
„	1,124	Segovia	1,502
„	1,223	Seville	638
„	1,132	„	773
Bilbao	1,318	Tarragona	1,570
Cadiz	1,425	Tarrasa	1,500
Castellon	1,448	Toledo	1,100
Ciudad Real	1,371	Valencia	1,258
Cordoba	701	„	1,385
Corunna	1,292	Valladolid	1,493
„	1,570	Villanueva	1,529
Cuenca	1,437	Vitoria	1,425
Denia	1,475	Zamora	1,417
Galicia	1,418	Zaragoza	872
Gandia	1,448		
Gerona	1,448	SWEDEN	
Granada	836	Falun	1,223
Huelva	1,475	Goteborg	980
Huesca	1,410	Halsingborg	1,223
Jaen	1,493	Horby	1,178
Jerez de la Frontera	1,515	Lulea	182
Leon	1,514	Malmberget	719
Lerida	1,259	Motala	191
Linares	593	Ostersund	420
Madrid	737	Stockholm	773
„	854	Sundsvall	593
„		Sync. Network	1,394

Sweden—cont.	kc/s	U.S.S.R.	kc/s
Sync. Network	1,448	Chernovtsy, Ukraine	674
Sync. Network	1,529	Dniepropetrovsk,	
Sync. Network	1,562	Ukraine	1,070
SWITZERLAND		Gorki, Russia	620
Basle	1,367	Kaliningrad, Russia	1,142
Beromunster	529	Kaunas, Lithuania	827
Chur	773	” ” (N)	1,385
Monte Ceneri	557	Kharkov, Ukraine	385
Savièse	1,367	Kiev, Ukraine	209
Sool	1,142	” ” (D)	782
Sottens	764	” ” (N)	1,169
SYRIA		Kishinev, Moldavia	998
Aleppo	719	Krasnodar, Russia	611
Damascus	602	Kuldiga, Latvia	1,349
”	665	Kursk, Russia	1,214
TANGIER		Leningrad, Russia	263
Tangier	728	” ”	800
”	935	Lwow, Ukraine	935
”	1,079	Madona, Latvia	1,349
”	1,178	Minsk, Byelorussia	281
”	1,232	” ”	400
TRIESTE		Moghilev, Byelorussia	1,106
Trieste	818	Moscow, Russia	173
”	980	” ”	200
”	1,169	” ” (N)	872
”	1,304	Murmansk, Russia	656
”	1,385	Odessa, Ukraine	1,169
”	1,484	Ouchgorod, Ukraine	890
TRIPOLITANIA (see Libya)		Petrozavodsk,	
TUNISIA		Finno-Karelia	611
Tunis	629	Riga, Latvia	575
”	962	Rostov-on-Don, Russia	764
TURKEY		Simferopol, Russia	647
Ankara	182	Stalino, Ukraine	710
Istanbul	701	Tallinn, Estonia	1,034
		Tartu, Estonia (D)	710
		” ” (N)	1,214
		Tiraspol, Moldavia	1,241
		Viborg, Finno-Karelia	1,124

U.S.S.R.—cont-	kc/s			kc/s
Vilna, Lithuania	665		Ljubljana	917
Voronezh, Russia	944		”	1,584
			Maribor	1,412
VATICAN CITY			Nis	923
Vatican City	782		Novi Sad	1,412
”	1,484		Osijek	1,484
”	1,529		Priscina	1,379
			Rijeka	1,412
YUGOSLAVIA			Sarajevo	611
Ajdovscina	809		Skoplje	809
Belgrade	683		Slavonski-Brod	1,484
”	1,268		Titograd	881
Bitolja	1,412		Valjevo	1,484
Dubrovnik	1,412		Zagreb	1,133

Short-wave Stations of the World

Mc/s	Metres	kW	Call	Station and Country
2.240	133.9	1	YDB	Djakarta, Java <i>Indonesia</i>
2.460	122.0	3	PJC	Willemstad <i>Curacao</i>
2.880	104.2	—	GRC	Overseas Service* <i>G. Britain</i>
3.150	95.24	7.5	VUD	Delhi <i>India</i>
3.220	93.17	1	—	Tananarive <i>Madagascar</i>
3.230	92.88	1	YDQ	Macassar, Celebes <i>Indonesia</i>
3.240	92.59	1.2	YDI	Surabaya, Java <i>Indonesia</i>
3.255	92.17	1	ZYR62	Marilia <i>Brazil</i>
3.262	91.96	2	—	Tobago <i>Brit. W. Indies</i>
3.263	91.94	1	ZYK21	Recife <i>Brazil</i>
3.275	91.60	1	ZYR31	Bauru <i>Brazil</i>
3.275	91.60	2	VP4RD	Port of Spain, Trinidad <i>Brit. W. Indies</i>
3.275	91.60	1	ZQP	Lusaka <i>N. Rhodesia</i>
3.277	91.55	1	—	Srinagar, Kashmir <i>India</i>
3.290	91.19	5	—	Johannesburg <i>S. Africa</i>
3.305	90.78	10	VUC2	Calcutta <i>India</i>
3.310	90.63	1	YVOG	Trujillo <i>Venezuela</i>
3.320	90.36	15	ZEAF	Salisbury <i>S. Rhodesia</i>
3.320	90.36	1	YVQG	Barcelona <i>Venezuela</i>
3.325	90.23	10	DZB2	Manila, Luzon <i>Philippines</i>
3.325	90.23	1	YVQL	El Tigre <i>Venezuela</i>
3.330	90.09	1	YDG	Surakarta, Java <i>Indonesia</i>
3.335	89.96	1	—	Srinagar, Kashmir <i>India</i>
3.341	89.79	1	YVMU	Carora <i>Venezuela</i>
3.345	89.69	1	ZYN22	Bahia <i>Brazil</i>
3.356	89.42	5	—	Johannesburg <i>S. Africa</i>
3.360	89.29	1.2	ZQI	Kingston, Jamaica <i>Brit. W. Indies</i>
3.360	89.29	1	YVOC	San Cristobal <i>Venezuela</i>
3.365	89.15	5	VUD	Delhi <i>India</i>
3.370	89.00	5	—	Johannesburg <i>S. Africa</i>
3.380	88.88	1	YDO	Bandjarmasin, Celebes <i>Indonesia</i>

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

Mc/s	Metres	kW	Call	Station and Country	
3.385	88.63	3	YDA	Bandoeng, Java	<i>Indonesia</i>
3.395	88.35	1	—	Colombo	<i>Ceylon</i>
3.400	88.24	5	VPC	Port Stanley	<i>Falkland Is.</i>
3.410	87.98	2.5	YVMK	Cabimas	<i>Venezuela</i>
3.418	87.78	1.5	YVCJ	Merida	<i>Venezuela</i>
3.425	87.70	5	—	Goa	<i>Goa</i>
3.430	87.46	25	LRS3	Buenos Aires	<i>Argentina</i>
3.435	87.32	7.5	VUD	Delhi	<i>India</i>
3.442	87.23	7.5	APK	Karachi	<i>Pakistan</i>
3.448	87.01	1.2	YVLI	Maracay	<i>Venezuela</i>
3.450	86.96	5	—	Johannesburg	<i>S. Africa</i>
3.469	86.48	1	YVQI	Barcelona	<i>Venezuela</i>
3.490	85.95	7.5	CR7AB	Lourenco Marques	<i>Mozambique</i>
3.493	85.89	1	YVRA	Maturin	<i>Venezuela</i>
3.495	85.84	10	VUD2	Delhi	<i>India</i>
3.710	80.86	1	—	Athens	<i>Greece</i>
3.890	77.10	10	HLKA	Seoul	<i>Korea</i>
3.914	76.65	2.5	ZQP	Lusaka	<i>N. Rhodesia</i>
3.930	76.30	25	—	Rome	<i>Italy</i>
3.945	76.05	7.5	VUD	Delhi	<i>India</i>
3.945	76.05	1	YDH2	Semarang, Java	<i>Indonesia</i>
3.950	75.96	3	DXB2	Mindanao	<i>Philippines</i>
3.960	75.76	1	YDL	Padang, Sumatra	<i>Indonesia</i>
3.960	75.76	1	—	Jidda	<i>Saudi Arabia</i>
3.970	75.57	7.5	VUD	Delhi	<i>India</i>
3.970	75.57	10	—	Magadan, Russia	<i>U.S.S.R.</i>
3.975	75.47	5	YDI2	Surabaya, Java	<i>Indonesia</i>
3.980	75.40	1	ZJV	Suva	<i>Fiji Is.</i>
3.990	75.20	1	—	Jidda	<i>Saudi Arabia</i>
4.050	74.07	25	—	Frunze, Kirghiz	<i>U.S.S.R.</i>
4.370	68.65	5	—	Johannesburg	<i>S. Africa</i>
4.380	68.49	—	—	Moscow, Russia	<i>U.S.S.R.</i>
4.460	67.26	—	—	Moscow, Russia	<i>U.S.S.R.</i>
4.560	65.79	—	—	Moscow, Russia	<i>U.S.S.R.</i>
4.580	65.48	20	—	Khabarovsk, Russia	<i>U.S.S.R.</i>
4.590	65.36	1	KUJ39	Guam	<i>Mariana Is.</i>
4.634	64.75	—	—	Moscow, Russia	<i>U.S.S.R.</i>
4.650	64.52	7	HC2AJ	Guayaquil	<i>Ecuador</i>

Mc/s	Metres	kW	Call	Station and Country	
4.675	64.17	—	—	Moscow, Russia	<i>U.S.S.R.</i>
4.733	63.40	7.5	—	Kaduna	<i>Nigeria</i>
4.755	63.09	1	ZYY3	Campinos	<i>Brazil</i>
4.755	63.09	5	YVMA	Maracaibo	<i>Venezuela</i>
4.760	63.03	10	VUD	Delhi	<i>India</i>
4.767	62.95	3	HJOX	Cali	<i>Colombia</i>
4.770	62.89	1	YVMW	Punta Fijo	<i>Venezuela</i>
4.775	62.82	1	CR6RG	Dondo	<i>Angola</i>
4.776	62.82	5	—	Rangoon	<i>Burma</i>
4.780	62.76	10	—	Singapore	<i>Malaya</i>
4.780	62.76	2	EQD	Teheran	<i>Persia</i>
4.781	62.75	1	YVLA	Valencia	<i>Venezuela</i>
4.785	62.70	5	HJAB	Barranquilla	<i>Colombia</i>
4.790	62.63	6	YVQC	Ciudad Bolivar	<i>Venezuela</i>
4.798	62.53	1	YSDR	Santa Ana	<i>Salvador</i>
4.800	62.50	1	—	Johannesburg	<i>S. Africa</i>
4.802	62.46	2	YVME	Maracaibo	<i>Venezuela</i>
4.805	62.43	1	ZYR61	Taubate	<i>Brazil</i>
4.805	62.43	7.5	APD	Dacca	<i>Pakistan</i>
4.806	62.42	5	ZYS8	Manaos	<i>Brazil</i>
4.807	62.41	1	—	St. Denis	<i>Reunion I.</i>
4.807	62.41	1	CR5SC	Sao Thome	<i>St. Thomas I.</i>
4.810	62.37	1	YVMG	Maracaibo	<i>Venezuela</i>
4.815	62.31	2.5	HJGB	Bucaramanga	<i>Colombia</i>
4.820	62.24	1	YVRC	San Fernando	<i>Venezuela</i>
4.825	62.18	100	—	Djakarta, Java	<i>Indonesia</i>
4.825	62.18	15	ZQP	Lusaka	<i>N. Rhodesia</i>
4.828	62.14	1.3	YVOA	San Cristobal	<i>Venezuela</i>
4.835	62.05	2	HJKE	Bogota	<i>Colombia</i>
4.840	61.98	1	—	Santiago	<i>Dominican Rep.</i>
4.840	61.98	10	VUB	Bombay	<i>India</i>
4.840	61.98	1	—	Den Pasar, Bali	<i>Indonesia</i>
4.842	61.96	1.5	YVOI	Valera	<i>Venezuela</i>
4.845	61.92	1	HJGF	Bucaramanga	<i>Colombia</i>
4.850	61.86	1	YVMS	Barquisimeto	<i>Venezuela</i>
4.854	61.79	1.5	VQ7LO	Nairobi	<i>Kenya</i>
4.855	61.79	1	YDK	Palembang, Sumatra	<i>Indonesia</i>
4.860	61.73	5	VUD3	Delhi	<i>India</i>

Mc/s	Metres	kW	Call	Station and Country	
4.860	61.73	1	—	Srinagar, Kashmir	India
4.860	61.73	5	JKL	Tokio (A.F.)	Japan
4.865	61.66	1	CSA93	Ponta Delgada	Azores
4.865	61.66	2	PRC5	Belem	Brazil
4.865	61.66	1	HJFA	Pereira	Colombia
4.865	61.66	1	YDR	Ambon, Moluccas	Indonesia
4.870	61.60	10	VUD	Delhi	India
4.871	61.59	2.5	HJBG	Cucuta	Colombia
4.873	61.56	7.5	CR7BV	Lourenco Marques	Mozambique
4.875	61.55	1	HJFH	Armenia	Colombia
4.878	61.50	7.5	YVKF	Caracas	Venezuela
4.880	61.48	10	VUC2	Calcutta	India
4.890	61.35	4.7	YVKB	Caracas	Venezuela
4.895	61.29	2.5	PRF6	Manaos	Brazil
4.895	61.29	3	HJCH	Bogota	Colombia
4.895	61.29	5	ZRG	Johannesburg	S. Africa
4.897	61.26	10	VLX4	Perth, W.A.	Australia
4.897	61.26	11	ZOI	Colombo	Ceylon
4.899	61.23	1	YVQE	Ciudad Bolivar	Venezuela
4.901	61.21	1	HJAG	Barranquilla	Colombia
4.905	61.16	5	ZYZ2O	Rio de Janeiro	Brazil
4.908	61.11	1	YDB2	Djakarta, Java	Indonesia
4.910	61.10	5	JKI	Tokio	Japan
4.916	61.04	1.3	ZOY	Accra	Gold Coast
4.917	61.00	10	VLM4	Brisbane, Qld.	Australia
4.920	60.98	10	VUM2	Madras	India
4.923	60.95	5	YVKR	Caracas	Venezuela
4.927	60.89	7.5	CR7BU	Lourenco Marques	Mozambique
4.930	60.85	1	HJAP	Cartagena	Colombia
4.930	60.85	3	YDP	Medan, Sumatra	Indonesia
4.935	60.79	1	HC1RC	Quito	Ecuador
4.940	60.73	10	VUD	Delhi	India
4.940	60.73	5	JKM	Osaka	Japan
4.940	60.73	4	YVMQ	Barquisimeto	Venezuela
4.945	60.67	1	HJCW	Bogota	Colombia
4.945	60.67	3	YDA3	Bandoeng, Java	Indonesia
4.945	60.67	5	—	Johannesburg	S. Africa

Mc/s	Metres	kW	Call	Station and Country	
4.947	60.64	3	PJC2	Willemstad	Curacao
4.950	60.61	1.2	ZQ1	Kingston, Jamaica	
					<i>Brit. W. Indies</i>
4.950	60.61	5	FHE9	Dakar	Senegal
4.950	60.61	1	YVMM	Coro	Venezuela
4.959	60.50	2.5	HJCR	Bogota	Colombia
4.960	60.48	10	VUD2	Delhi	India
4.960	60.48	7.5	—	Lagos	Nigeria
4.960	60.48	1	YVQA	Cumana	Venezuela
4.963	60.42	1	HJAE	Cartagena	Colombia
4.966	60.41	—	—	Tripoli (B.F.)	Libya
4.972	60.35	1	YVLK	Caracas	Venezuela
4.973	60.31	7.5	—	Lagos	Nigeria
4.975	60.30	2.5	ZYY9	Sao Luiz	Brazil
4.989	60.12	5	YVMO	Barquisimeto	Venezuela
4.995	60.06	1	ZYY2	Goiana	Brazil
5.000	60.00	50	APK	Karachi	Pakistan
5.010	59.88	100	—	Tebrau	Malaya
5.018	59.81	1	HJFW	Manizales	Colombia
5.023	59.73	20	—	Vladivostok, Russia	U.S.S.R.
5.030	59.64	1	YDM2	Bukittinggi, Sumatra	
					<i>Indonesia</i>
5.030	59.64	7.5	YVKM	Caracas	Venezuela
5.040	59.59	10	—	Tiflis, Georgia	U.S.S.R.
5.045	59.46	5	ZYP23	Rio de Janeiro	Brazil
5.047	59.44	2.5	YVKD	Caracas	Venezuela
5.050	59.41	1	CR6RN	Loando	Angola
5.055	59.35	5	HJDW	Medellin	Colombia
5.060	59.29	7	TFI	Reykjavik	Iceland
5.060	59.29	3	YDJ	Djokjakarta, Java	Indonesia
5.065	59.25	—	—	Moscow, Russia	U.S.S.R.
5.075	59.10	1	HJKH	Sutatenza	Colombia
5.080	59.06	1	—	Salzburg, U.S. Zone	Austria
5.080	59.06	10	—	Alma Ata, Kazak	U.S.S.R.
5.225	57.42	15	—	Novosibirsk, Russia	U.S.S.R.
5.260	57.03	10	—	Ulan Bator, Buryat	U.S.S.R.
5.455	55.00	—	—	Moscow, Russia	U.S.S.R.
5.480	54.74	—	—	Moscow, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
5.600	53.57	3	TIGPH4	San Jose	Costa Rica
5.740	52.26	10	—	Erivan, Armenia	U.S.S.R.
5.750	52.20	1	CE8AA	Santiago	Chile
5.780	51.90	—	—	Moscow, Russia	U.S.S.R.
5.839	51.37	1	CQM7	Bissao	Port. Guinea
5.840	51.37	10	—	Magadan, Russia	U.S.S.R.
5.855	51.24	1	CP15	La Paz	Bolivia
5.855	51.24	1	CR4AA	Praia	Cape Verde Is.
5.860	51.19	10	—	Alma Ata, Kazak	U.S.S.R.
5.875	51.06	1	HRN	Tegucigalpa	Honduras Rep.
5.892	50.91	5	ZRK	Cape Town	S. Africa
5.900	50.85	10	—	Alma Ata, Kazak	U.S.S.R.
5.901	50.84	15	OAX4Z	Lima	Peru
5.912	50.73	—	—	Moscow, Russia	U.S.S.R.
5.919	50.68	—	—	Moscow, Russia	U.S.S.R.
5.920	50.68	2	HRA	Tegucigalpa	Honduras Rep.
5.922	50.66	—	—	Moscow, Russia	U.S.S.R.
5.924	50.63	7.5	—	Warsaw	Poland
5.930	50.59	—	—	Moscow, Russia	U.S.S.R.
5.935	50.55	1	YNDG	Leon	Nicaragua
5.940	50.51	20	RV15	Khabarovsk, Russia	U.S.S.R.
5.940	50.51	—	—	Moscow, Russia	U.S.S.R.
5.947	50.43	—	—	Moscow, Russia	U.S.S.R.
5.950	50.42	100	—	Allouis	France
5.950	50.42	5	TGNA	Guatemala City	Guatemala
5.955	50.38	1	—	Suva	Fiji Is.
5.955	50.38	—	—	Moscow, Russia	U.S.S.R.
5.960	50.34	10	VUD	Delhi	India
5.960	50.34	—	—	Moscow, Russia	U.S.S.R.
5.963	50.33	6.5	—	Khartoum	Sudan
5.965	50.30	1	HJCF	Bogota	Colombia
5.965	50.30	—	—	Moscow, Russia	U.S.S.R.
5.968	50.27	25	HVJ	Vatican City	Vatican City
5.970	50.25	1	CP5	La Paz	Bolivia
5.970	50.25	50	CKNA	Sackville, N.B.	Canada
5.970	50.25	7.5	HI4T	Ciudad Trujillo	Dominican Rep.
5.970	50.25	10	—	Achkhabad, Turkmenia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
5.970	50.25	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.975	50.21	7.5	—	Warsaw	<i>Poland</i>
5.975	50.21	10	—	Lisbon	<i>Portugal</i>
5.976	50.21	2	—	Jidda	<i>Saudi Arabia</i>
5.980	50.17	1	ZFY	Georgetown	<i>Brit. Guiana</i>
5.980	50.17	10	VUD	Delhi	<i>India</i>
5.980	50.17	5	—	Milan	<i>Italy</i>
5.980	50.17	50	APK	Karachi	<i>Pakistan</i>
5.980	50.17	1	YSWW	Santa Ana	<i>Salvador</i>
5.980	50.17	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.980	50.17	10	—	Yakutsk, Siberia	<i>U.S.S.R.</i>
5.980	50.17	20	—	Norden	<i>W. Germany</i>
5.986	50.12	5	LRS1	Buenos Aires	<i>Argentina</i>
5.990	50.08	25	—	Andorra	<i>Andorra</i>
5.990	50.08	1	HCJB	Quito	<i>Ecuador</i>
5.990	50.08	1	TGJA	Guatemala City	<i>Guatemala</i>
5.990	50.08	100	VUD	Delhi	<i>India</i>
5.990	50.08	5	DZ13	Manila	<i>Philippines</i>
5.995	50.04	5	PRK5	Belo Horizonte	<i>Brazil</i>
5.995	50.04	1	HOSO	Panama City	<i>Panama</i>
5.995	50.04	7.5	—	Warsaw	<i>Poland</i>
5.995	50.04	—	—	Moscow, Russia	<i>U.S.S.R.</i>
5.998	50.02	1	DZH4	Manila, Luzon	<i>Philippines</i>
5.999	50.02	30	OLR2A	Podebrady	<i>Czechoslovakia</i>
6.000	50.00	—	—	Innsbruck, Fr. Zone	<i>Austria</i>
6.000	50.00	100	ORU	Wavre	<i>Belgium</i>
6.000	50.00	5	HJKD	Bogota	<i>Colombia</i>
6.000	50.00	20	TAN	Ankara	<i>Turkey</i>
6.000	50.00	10	—	Alma Ata, Kazak	<i>U.S.S.R.</i>
6.000	50.00	—	RNE	Moscow, Russia	<i>U.S.S.R.</i>
6.000	50.00	50	CXA2	Montevideo	<i>Uruguay</i>
6.005	49.96	1	CFCX	Montreal, Quebec	<i>Canada</i>
6.005	49.96	1	HP5K	Colon	<i>Panama</i>
6.005	49.96	20	—	Berlin	<i>W. Germany</i>
6.006	49.95	7.5	—	Colombo	<i>Ceylon</i>
6.006	49.95	1.5	TIHBG	San Jose	<i>Costa Rica</i>
6.006	49.95	2.5	CNR3	Rabat	<i>Fr. Morocco</i>
6.006	49.95	5	—	Johannesburg	<i>S. Africa</i>
6.010	49.92	1	CJCX	Sydney, N.S.	<i>Canada</i>

Mc/s	Metres	kW	Call	Station and Country	
6.010	49.92	5	CE601	Antofagasta	Chile
6.010	49.92	5	COCO	Havana	Cuba
6.010	49.92	—	GRB	Overseas Service*	G. Britain
6.010	49.92	10	VUC2	Calcutta	India
6.010	49.92	5	VUD3	Delhi	India
6.010	49.92	60	—	Rome	Italy
6.010	49.92	2.5	XEOI	Mexico City	Mexico
6.010	49.92	1	OAX4Q	Lima	Peru
6.010	49.92	2.5	HSIJS	Bangkok	Siam
6.012	48.90	1.2	4VM	Port au Prince	Haiti
6.015	49.88	5	PRA8	Recife	Brazil
6.015	49.88	5	JKK	Tokio	Japan
6.015	49.88	100	—	Tangier	Tangier
6.017	49.86	15	ZEAJ	Salisbury	S. Rhodesia
6.018	49.85	20	RV15	Khabarovsk, Russia	U.S.S.R.
6.020	49.83	5	HJCX	Bogota	Colombia
6.020	49.83	5	PCD	Lopik	Netherlands
6.020	49.83	50	WRCA4	Bound Brook, N.J.	U.S.A.
6.020	49.83	50	KRCA2	Dixon, Cal.	U.S.A.
6.020	49.83	100	—	Kiev, Ukraine	U.S.S.R.
6.022	49.82	2.5	FZI	Brazzaville	Fr. Eq. Africa
6.025	49.79	30	OLR2B	Podebrady	Czechoslovakia
6.025	49.79	5	CR8AB	Goa	Goa
6.025	49.79	1	HROW	Tegucigalpa	Honduras Rep.
6.025	49.79	1	ELBC	Monrovia	Liberia
6.025	49.79	10	VS2KC	Kuala Lumpur	Malaya
6.025	49.79	7.5	—	Warsaw	Poland
6.030	49.75	1	DZH6	Manila, Luzon	Philippines
6.030	49.75	—	—	Moscow, Russia	U.S.S.R.
6.030	49.75	25	HVJ	Vatican City	Vatican City
6.030	49.75	10	—	Stuttgart	W. Germany
6.035	49.71	7.5	—	Rangoon	Burma
6.035	49.71	—	GWS	Overseas Service*	G. Britain
6.035	49.71	1	FK8AA	Noumea	New Caledonia
6.035	49.71	50	APK	Karachi	Pakistan
6.035	49.71	—	—	Moscow, Russia	U.S.S.R.
6.035	49.71	1	CXA30	Montevideo	Uruguay
6.037	49.69	25	3AM3	Monte Carlo	Monaco
6.040	49.67	—	GSY	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
6.040	49.67	1	FO8AA	Papeete	Tahiti
6.040	49.67	50	—	Tangier	Tangier
6.040	49.67	75	WLWO1	Cincinnati, Ohio	U.S.A.
6.040	49.67	50	KCBR3	Delano, Cal.	U.S.A.
6.040	49.67	—	—	Moscow, Russia	U.S.S.R.
6.043	49.63	1	HIIN	Ciudad Trujillo	Dominican Rep.
6.043	49.63	100	—	Allouis	France
6.045	49.63	100	YDF	Djakarta, Java	Indonesia
6.045	49.63	—	—	Moscow, Russia	U.S.S.R.
6.050	49.59	1	HCJB	Quito	Ecuador
6.050	49.59	—	GSA	Overseas Service*	G. Britain
6.050	49.59	—	—	Moscow, Russia	U.S.S.R.
6.050	49.59	10	—	Tiflis, Georgia	U.S.S.R.
6.055	49.55	5	PRB21	Sao Paulo	Brazil
6.055	49.55	2.5	HJEX	Cali	Colombia
6.055	49.55	25	HER2	Schwarzenburg	Switzerland
6.055	49.55	25	—	Komsomolsk, Siberia	U.S.S.R.
6.055	49.55	5	CXA14	Colonia	Uruguay
6.058	49.52	5	VU7MC	Akashvani, Mysore	India
6.059	49.51	7	—	Tabriz	Persia
6.060	49.50	50	CKRZ	Sackville, N.B.	Canada
6.060	49.50	50	OZF3	Copenhagen	Denmark
6.060	49.50	—	GSX	Overseas Service*	G. Britain
6.060	49.50	3	VQ7LO	Nairobi	Kenya
6.060	49.50	1	HORT	Panama City	Panama
6.060	49.50	50	—	Manila, Luzon	Philippines
6.060	49.50	100	—	Tangier	Tangier
6.060	49.50	50	WRUL1	Boston, Mass.	U.S.A.
6.060	49.50	50	WSDI	Brentwood, N.Y.	U.S.A.
6.060	49.50	100	KRCA5	Dixon, Cal.	U.S.A.
6.060	49.50	—	—	Moscow, Russia	U.S.S.R.
60.62	49.48	25	LRA	Buenos Aires	Argentina
6.063	49.48	1	HC2FQ	Guayaquil	Equador
6.065	49.46	100	ORU	Wavre	Belgium
6.065	49.46	10	XEXE	Mexico City	Mexico
6.065	49.46	100	—	Horby	Sweden
6.065	49.46	50	KGE11	Belmont, Cal.	U.S.A.

Mc/s	Metres	kW	Call	Station and Country	
6.070	49.42	5	—	Sofia	Bulgaria
6.070	49.42	1	CFRX	Toronto, Ont.	Canada
6.070	49.42	—	GRR	Overseas Service*	G. Britain
6.070	49.42	50	JOB	Tokio	Japan
6.070	49.42	—	—	Moscow, Russia	U.S.S.R.
6.070	49.42	10	—	Petropavlovsk, Russia	U.S.S.R.
6.071	49.41	1.5	EA9AH	Tetuan	Spanish Morocco
6.075	49.38	100	KGEI2	Belmont, Cal.	U.S.A.
6.075	49.38	2.5	CXA3	Montevideo	Uruguay
6.080	49.34	7.5	ZL7	Wellington	New Zealand
6.080	49.34	10	DZI7	Manila, Luzon	Philippines
6.080	49.34	100	—	Tangier	Tangier
6.080	49.34	75	WLWO1	Cincinnati, Ohio	U.S.A.
6.080	49.34	100	—	Munich	W. Germany
6.085	49.30	100	ORU	Wavre	Belgium
6.085	49.30	60	ZYK2	Recife	Brazil
6.085	49.30	10	VUD	Delhi	India
6.085	49.30	10	VUM2	Madras	India
6.085	49.30	50	IBU4	Milan	Italy
6.086	49.30	140	—	Cairo	Egypt
6.090	49.26	2	VL16	Sydney, N.S.W.	Australia
6.090	49.26	1	ZNS2	Nassau, Bahamas	Brit. W. Indies
6.090	49.26	50	CKOB	Sackville, N.B.	Canada
6.090	49.26	7.5	CBFW	Vercheres, Quebec	Canada
6.090	49.26	—	GWM	Overseas Service*	G. Britain
6.090	49.26	5	LXA	Luxembourg	Luxembourg
6.090	49.26	1	OAX4G	Lima	Peru
6.090	49.26	—	—	Moscow, Russia	U.S.S.R.
6.095	49.22	25	ZYB7	Sao Paulo	Brazil
6.095	49.22	30	OLR2H	Podebrady	Czechoslovakia
6.095	49.22	10	BED29	Taipei	Formosa
6.095	49.22	100	—	Horby	Sweden
6.096	49.21	5	—	Johannesburg	S. Africa
6.100	49.18	1	—	Peking	China
6.100	49.18	1	—	Suva	Fiji Is.
6.100	49.18	1	TGOA	Guatemala City	Guatemala
6.100	49.18	1	DYH3	Cebu	Philippines

Mc/s	Metres	kW	Call	Station and Country
6.100	49.18	50	WRCA	Bound Brook, N.J. U.S.A.
6.100	49.18	—	—	Moscow, Russia U.S.S.R.
6.100	49.18	10	YUA	Belgrade Yugoslavia
6.101	49.18	7.5	—	Lagos Nigeria
6.101	49.18	2	—	Jidda Saudi Arabia
6.103	49.16	2.5	HJFK	Pereira Colombia
6.104	49.15	1	WLKS	Kure (B.F.) Japan
6.105	49.14	5	ZYN6	Fortaleza Brazil
6.105	49.14	100	—	Munich W. Germany
6.110	49.10	4.5	HJFD	Manizales Colombia
6.110	49.10	—	GSL	Overseas Service* G. Britain
6.110	49.10	5	VUD3	Delhi India
6.110	49.10	1	—	Srinagar, Kashmir India
6.110	49.10	100	—	Tebrau Malaya
6.110	49.10	1	—	Tangier Tangier
6.110	49.10	—	—	Moscow, Russia U.S.S.R.
6.115	49.06	1	HIIZ	Ciudad Trujillo Dominican Rep.
6.115	49.06	5	—	Berlin E. Germany
6.115	49.06	7.5	—	Warsaw Poland
6.115	49.06	25	—	Komsomolsk, Siberia U.S.S.R.
6.116	49.05	12	—	Saigon Fr. Indo-China
6.120	49.02	1	LRX1	Buenos Aires Argentina
6.120	49.02	7.5	ZJM4	Limassol Cyprus
6.120	49.02	10	OIX1	Helsinki Finland
6.120	49.02	100	—	Tangier Tangier
6.120	49.02	50	WDSI	Brentwood, N.Y. U.S.A.
6.120	49.02	50	KCBR2	Delano, Cal. U.S.A.
6.120	49.02	—	—	Moscow, Russia U.S.S.R.
6.123	49.00	1	HRQ	San Pedro Honduras Rep.
6.125	48.98	—	GWA	Overseas Service* G. Britain
6.125	48.98	7.5	—	Manila, Luzon Philippines
6.125	48.98	—	—	Moscow, Russia U.S.S.R.
6.130	48.94	1	CHNX	Halifax, N.S. Canada
6.130	48.94	1	COCD	Havana Cuba
6.130	48.94	2	VLT6	Port Moresby Brit. New Guinea
6.130	48.94	7.5	ZL11	Wellington New Zealand

Mc/s	Metres	kW	Call	Station and Country	
6.130	48.94	10	LKJ2	Tromso	Norway
6.130	48.94	—	—	Moscow, Russia	U.S.S.R.
6.130	48.94	10	CXA4	Montevideo	Uruguay
6.130	48.94	100	—	Munich	W. Germany
6.135	48.90	7.5	PRC21	Porto Alegre	Brazil
6.135	48.90	1	HJED	Cali	Colombia
6.135	48.90	7.5	ZJM4	Limassol	Cyprus
6.135	48.90	10	ZHL	Singapore	Malaya
6.135	48.90	7.5	CR7AA	Lourenco Marques	Mozambique
6.135	48.90	1	FO8AA	Papeete	Tahiti
6.135	48.90	—	—	Moscow, Russia	U.S.S.R.
6.140	48.86	50	OTC	Leopoldville	Belgian Congo
6.140	48.86	1	DYH2	Cebu	Philippines
6.140	48.86	7.5	—	Warsaw	Poland
6.140	48.86	100	—	Tangier	Tangier
6.140	48.86	50	WRUL2	Boston, Mass.	U.S.A.
6.140	48.86	100	—	Munich	W. Germany
6.145	48.82	10	LRR	Rosario	Argentina
6.145	48.82	5	HJDE	Medellin	Colombia
6.145	48.82	100	—	Allouis	France
6.145	48.82	50	—	Tangier	Tangier
6.147	48.79	50	PRL9	Rio de Janeiro	Brazil
6.147	48.79	10	—	Belgrade	Yugoslavia
6.150	48.78	2	VLR6	Lyndhurst, Vic.	Australia
6.150	48.78	1	CPI2	La Paz	Bolivia
6.150	48.78	2	CKRO	Winnipeg, Manitoba	Canada
6.150	48.78	2	TIRH	San Jose	Costa Rica
6.150	48.78	—	GRW	Overseas Service*	G. Britain
6.150	48.78	10	VUB2	Bombay	India
6.150	48.78	20	—	Khabarovsk, Russia	U.S.S.R.
6.150	48.78	—	—	Moscow, Russia	U.S.S.R.
6.152	48.76	5	CE615	Santiago	Chile
6.154	48.75	35	BEF6	Chungking	China
6.154	48.75	10	CSB52	Lisbon	Portugal
6.155	48.74	—	—	Vienna, U.S.S.R. Zone	Austria
6.155	48.74	1	XEEP	Mexico City	Mexico
6.155	48.74	2	EQB	Teheran	Persia

Mc/s	Metres	kW	Call	Station and Country	
6.155	48.74	75	WLWO	Cincinnati, Ohio	U.S.A.
6.155	48.74	—	—	Moscow, Russia	U.S.S.R.
6.155	48.74	5	CXA13	Montevideo	Uruguay
6.156	48.74	2	ZPA	Ascuncion	Paraguay
6.160	48.70	10	—	Algiers	Algeria
6.160	48.70	50	CHAC	Sackville, N.B.	Canada
6.160	48.70	5	HJKJ	Bogota	Colombia
6.160	48.70	100	KRHO	Honolulu	Hawaii
6.160	48.70	—	—	Moscow, Russia	U.S.S.R.
6.160	48.70	10	—	Munich	W. Germany
6.161	48.69	10	CXA13	Montevideo	Uruguay
6.165	48.66	2	TILS	San Pedro	Costa Rica
6.165	48.66	1	—	Hanoi	Fr. Indo-China
6.165	48.66	—	GWK	Overseas Service*	G. Britain
6.165	48.66	1	4VCM	Port au Prince	Haiti
6.165	48.66	1.5	—	Fort de France	Martinique
6.165	48.66	100	HER3	Schwarzenburg	Switzerland
6.165	48.66	20	—	Damascus	Syria
6.165	48.66	50	WDSI	Brentwood, N.Y.	U.S.A.
6.165	48.66	—	—	Moscow, Russia	U.S.S.R.
6.167	48.64	1	DUH2	Manila, Luzon	Philippines
6.170	48.62	7.5	ZJM5	Limassol	Cyprus
6.170	48.62	—	GSZ	Overseas Service*	G. Britain
6.170	48.62	1	FIQA	Tananative	Madagascar
6.170	48.62	1	YSHQ	San Miguel	Salvador
6.170	48.62	50	WDSI	Brentwood, N.Y.	U.S.A.
6.170	48.62	—	—	Moscow, Russia	U.S.S.R.
6.170	48.62	2	YVKO	Caracas	Venezuela
6.170	48.62	100	—	Munich	W. Germany
6.174	48.59	1	CXA21	Montevideo	Uruguay
6.175	48.58	30	OLR2D	Podebrady	Czechoslovakia
6.175	48.58	7.5	—	Athens	Greece
6.175	48.58	1	TGWB	Guatemala City	Guatemala
6.175	48.58	7.5	—	Tebrau	Malaya
6.175	48.58	50	WDSI	Brentwood, N.Y.	U.S.A.
6.175	48.58	—	—	Moscow, Russia	U.S.S.R.
6.175	48.58	100	—	Munich	W. Germany
6.176	48.57	2	—	Jidda	Saudi Arabia
6.180	48.54	10	LRM	Mendoza	Argentina

Mc/s	Metres	kW	Call	Station and Country
6.180	48.54	—	GRO	Overseas Service* <i>G. Britain</i>
6.180	48.54	10	—	Achkhabad, Turkmenia <i>U.S.S.R.</i>
6.183	48.52	10	HJCT	Bogota <i>Colombia</i>
6.185	48.50	8	LLJ	Fredrikstad <i>Norway</i>
6.185	48.50	50	KRCA2	Dixon, Cal. <i>U.S.A.</i>
6.185	48.50	100	—	Munich <i>W. Germany</i>
6.190	48.47	1	CE619	Santiago <i>Chile</i>
6.190	48.47	1	—	Saigon <i>Fr. Indo-China</i>
6.190	48.47	100	VUD7	Delhi <i>India</i>
6.190	48.47	1	YSUA	San Salvador <i>Salvador</i>
6.190	48.47	100	—	Tangier <i>Tangier</i>
6.190	48.47	50	WRCA3	Bound Brook, N.J. <i>U.S.A.</i>
6.190	48.47	25	HJV	Vatican City <i>Vatican City</i>
6.190	48.47	1	—	Frankfurt <i>W. Germany</i>
6.195	48.43	—	GRN	Overseas Service* <i>G. Britain</i>
6.195	48.43	100	KRHK	Honolulu <i>Hawaii</i>
6.195	48.43	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.200	48.39	100	—	Allouis <i>France</i>
6.200	48.39	100	—	Tangier <i>Tangier</i>
6.207	48.32	20	—	Damascus <i>Syria</i>
6.210	48.31	5	—	Bucharest <i>Rumania</i>
6.210	48.31	—	—	Moscow, Russia <i>U.S.S.R.</i>
6.220	48.23	5	CE622	Santiago <i>Chile</i>
6.220	48.23	7.5	—	Warsaw <i>Poland</i>
6.220	48.23	10	—	Alma Ata, Kazak <i>U.S.S.R.</i>
6.225	48.19	6	HJFD	Manizales <i>Colombia</i>
6.225	48.19	40	—	Madrid <i>Spain</i>
6.235	48.12	50	APK	Karachi <i>Pakistan</i>
6.240	48.08	5	—	Milan <i>Italy</i>
6.240	48.08	1	HS8PD	Bangkok <i>Siam</i>
6.247	48.01	100	—	Budapest <i>Hungary</i>
6.260	47.92	5	—	Palermo <i>Italy</i>
6.265	47.88	1	YSR	San Salvador <i>Salvador</i>
6.270	47.85	20	—	Norden <i>W. Germany</i>
6.275	47.81	2.5	ZPA1	Ascuncion <i>Paraguay</i>
6.285	47.73	1	TGTQ	Guatemala City <i>Guatemala</i>
6.293	47.66	1	TGLA	Guatemala City <i>Guatemala</i>
6.295	47.66	3	OTM1	Leopoldville <i>Belgian Congo</i>

Mc/s	Metres	kW	Call	Station and Country	
6.300	47.62	1	OAX6E	Arequipa	Peru
6.307	47.56	1	OAX4H	Lima	Peru
6.317	47.49	1	COCW	Havana	Cuba
6.320	47.47	1	—	Baden Baden	W. Germany
6.332	47.38	1	TGTA	Guatemala City	Guatemala
6.345	47.28	10	—	Ulan Bator, Buryat	U.S.S.R.
6.350	47.24	1	HRP1	San Pedro	Honduras Rep.
6.360	47.17	10	CSA38	Lisbon	Portugal
6.360	47.17	40	—	Madrid	Spain
6.373	47.09	10	CSA21	Lisbon	Portugal
6.400	46.88	1	TGQA	Quezaltenango	Guatemala
6.405	46.82	—	—	Moscow, Russia	U.S.S.R.
6.420	46.72	1	ETA94	Addis Ababa	Ethiopia
6.436	46.61	6.5	—	Khartoum	Sudan
6.450	46.51	1	CE645	Antofagasta	Chile
6.450	46.51	1	COCY	Havana	Cuba
6.480	46.30	—	—	Moscow, Russia	U.S.S.R.
6.505	46.12	—	—	San Jose	Costa Rica
6.525	45.98	1	OAX4S	Lima	Peru
6.540	45.87	—	—	Moscow, Russia	U.S.S.R.
6.552	45.79	1	—	Samandaj	Persia
6.560	45.73	3	—	Tirana	Albania
6.562	45.72	5	—	Shiraz	Persia
6.645	45.20	1	BEL7	Hankow	China
6.675	44.95	2	HROW	Tegucigalpa	Honduras Rep.
6.675	44.94	25	HBQ	Geneva	Switzerland
6.700	44.78	25	—	Stalinabad, Tadzhik	U.S.S.R.
6.703	44.66	7.5	4XB44	Tel Aviv	Israel
6.730	44.58	15	—	Tashkent, Uzbek	U.S.S.R.
6.755	44.41	1.2	—	Alicante	Spain
6.760	44.38	1	YNVP	Managua	Nicaragua
6.790	44.18	7.5	ZJM6	Limassol	Cyprus
6.825	43.96	15	—	Taskhent, Uzbek	U.S.S.R.
6.830	43.92	50	4XB31	Tel Aviv	Israel
6.830	43.92	1	YNOW	Managua	Nicaragua
6.833	43.90	5	—	Shanghai	China
6.852	43.79	—	—	Moscow, Russia	U.S.S.R.
6.870	43.67	1	HC4EB	Manta	Ecuador
6.967	43.06	10	—	Magadan, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
6.975	43.01	2	EAJ9	Malaga	Spain
6.980	42.95	40	—	Valencia	Spain
6.980	42.95	1	FO8AA	Papeete	Tahiti
6.987	42.92	10	—	Jerusalem	Jordan
6.994	42.90	3	EAJ3	Valencia	Spain
7.002	42.86	1.5	FZI	Brazzaville	Fr. Eq. Africa
7.006	42.83	1	FET1	Valladolid	Spain
7.008	42.81	50	APK	Karachi	Pakistan
7.062	42.49	1	—	Baghdad	Iraq
7.075	42.40	—	GRS	Overseas Service*	G. Britain
7.090	42.31	1	EDV10	Madrid	Spain
7.092	42.30	1	YI5KG	Baghdad	Iraq
7.095	42.28	7.5	APD	Dacca	Pakistan
7.095	42.28	—	—	Moscow, Russia	U.S.S.R.
7.096	42.28	1	—	Katmandu	Nepal
7.098	42.26	1	—	Harbin	China
7.098	42.26	3	YDJ2	Djokjakarta, Java	Indonesia
7.100	42.25	—	—	Moscow, Russia	U.S.S.R.
7.105	42.22	100	—	Allouis	France
7.105	42.22	7.5	—	Warsaw	Poland
7.105	42.22	—	FET5	Cordoba	Spain
7.110	42.19	60	—	Rome	Italy
7.110	42.19	—	EAJ7	Cuenca	Spain
7.110	42.19	—	—	Moscow, Russia	U.S.S.R.
7.115	42.16	100	VUD	Delhi	India
7.115	42.16	—	—	Moscow, Russia	U.S.S.R.
7.115	42.16	100	—	Munich	W. Germany
7.120	42.13	—	GRM	Overseas Service*	G. Britain
7.120	42.13	100	VUD	Delhi	India
7.120	42.13	100	—	Tebrau	Malaya
7.125	42.11	10	VUD	Delhi	India
7.125	42.11	—	—	Moscow, Russia	U.S.S.R.
7.127	42.09	1	VQ6MI	Hargeisa	Brit. Somaliland
7.132	42.06	7.5	—	Warsaw	Poland
7.133	42.06	1	CR6RC	Loando	Angola
7.135	42.05	10	BED7	Taipei	Formosa
7.135	42.05	—	MCM	Overseas Service*	G. Britain
7.140	42.01	2.5	HS8PJ	Bangkok	Siam
7.145	41.99	7.5	—	Warsaw	Poland

Mc/s	Metres	kW	Call	Station and Country	
7.145	41.99	20	—	Damascus	<i>Syria</i>
7.147	41.98	7.5	APD1	Dacca	<i>Pakistan</i>
7.150	41.96	100	—	Berlin	<i>E. Germany</i>
7.150	41.96	—	GRT	Overseas Service*	<i>G. Britain</i>
7.150	41.96	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.155	41.93	10	VUD	Delhi	<i>India</i>
7.155	41.93	7.5	—	Warsaw	<i>Poland</i>
7.155	41.93	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.155	41.93	100	—	Munich	<i>W. Germany</i>
7.160	41.90	100	—	Allouis	<i>France</i>
7.160	41.90	100	—	Tangier	<i>Tangier</i>
7.165	41.87	7.5	—	Kaduna	<i>Nigeria</i>
7.165	41.87	100	—	Kiev, Ukraine	<i>U.S.S.R.</i>
7.165	41.87	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.170	41.84	100	VUD	Delhi	<i>India</i>
7.170	41.84	100	—	Tangier	<i>Tangier</i>
7.175	41.81	7.5	—	Warsaw	<i>Poland</i>
7.177	41.79	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.180	41.78	1	CR6RK	Lobito	<i>Angola</i>
7.180	41.78	50	JOA2	Tokio	<i>Japan</i>
7.180	41.78	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.185	41.76	—	GRK	Overseas Service*	<i>G. Britain</i>
7.190	41.72	7.5	—	Colombo	<i>Ceylon</i>
7.190	41.72	100	VUD	Delhi	<i>India</i>
7.190	41.72	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.193	41.70	5	EA9AA	Tangier	<i>Tangier</i>
7.200	41.67	1	—	Hue	<i>Fr. Indo-China</i>
7.200	41.67	—	GWZ	Overseas Service*	<i>G. Britain</i>
7.200	41.67	10	ZHP3	Singapore	<i>Malaya</i>
7.200	41.67	1	—	St. Denis	<i>Reunion I.</i>
7.200	41.67	2	—	Jidda	<i>Saudi Arabia</i>
7.200	41.67	1	—	St. Isabel	<i>Spanish Guinea</i>
7.200	41.67	50	—	Tangier	<i>Tangier</i>
7.200	41.67	—	—	Moscow, Russia	<i>U.S.S.R.</i>
7.200	41.67	25	—	Stalinabad, Tadzhik	<i>U.S.S.R.</i>
7.203	41.65	100	—	Belgrade	<i>Yugoslavia</i>
7.205	41.63	7.5	—	Warsaw	<i>Poland</i>
7.210	41.61	50	—	Rabat	<i>Fr. Morocco</i>
7.210	41.61	—	GWL	Overseas Service*	<i>G. Britain</i>

Mc/s	Metres	kW	Call	Station and Country	
7.210	41.61	10	VUC2	Calcutta	India
7.210	41.61	1	—	Abidjan	Ivory Coast
7.210	41.61	10	LLS	Tromso	Norway
7.210	41.61	5	FHE7	Dakar	Senegal
7.210	41.61	25	HEI3	Schwarzenburg	Switzerland
7.210	41.61	—	—	Moscow, Russia	U.S.S.R.
7.214	41.58	50	—	Tangier	Tangier
7.215	41.58	10	VLQ7	Brisbane, Qld.	Australia
7.215	41.58	50	VLC7	Shepparton, Vic.	Australia
7.215	41.58	7.5	—	Leopoldville	Belgian Congo
7.215	41.58	—	—	Moscow, Russia	U.S.S.R.
7.220	41.55	50	VLC7	Shepparton, Vic.	Australia
7.220	41.55	100	—	Allouis	France
7.220	41.55	7.5	ZL12	Wellington	New Zealand
7.220	41.55	15	ZQP	Lusaka	N. Rhodesia
7.220	41.55	50	—	Tangier	Tangier
7.222	41.54	100	—	Budapest	Hungary
7.225	41.52	20	VUD10	Delhi	India
7.225	41.52	—	—	Moscow, Russia	U.S.S.R.
7.229	41.50	1	—	Johannesburg	S. Africa
7.230	41.49	1	CR6RM	Mossamedes	Angola
7.230	41.49	25	—	Saigon	Fr. Indo-China
7.230	41.49	—	GSW	Overseas Service*	G. Britain
7.230	41.49	100	—	Lisbon	Portugal
7.235	41.47	100	—	Tangier	Tangier
7.235	41.47	—	—	Moscow, Russia	U.S.S.R.
7.240	41.44	10	VLQ7	Brisbane, Qld.	Australia
7.240	41.44	50	VLC7	Shepparton, Vic.	Australia
7.240	41.44	100	—	Allouis	France
7.240	41.44	7.5	VUD8	Delhi	India
7.240	41.44	5	LLR	Oslo	Norway
7.240	41.44	100	—	Tangier	Tangier
7.240	41.44	20	TAM	Ankara	Turkey
7.240	41.44	100	—	Belgrade	Yugoslavia
7.245	41.41	—	—	Vienna, U.S.S.R. Zone	Austria
7.245	41.41	10	VUB2	Bombay	India
7.245	41.41	2	—	Jidda	Saudi Arabia
7.245	41.41	—	—	Moscow, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country
7.250	41.38	—	GWI	Overseas Service* G. Britain
7.250	41.38	100	—	Munich W. Germany
7.253	41.36	1	—	Lagos Nigeria
7.255	41.35	100	VUD	Delhi India
7.255	41.35	5	ZRK	Cape Town S. Africa
7.255	41.35	—	—	Moscow, Russia U.S.S.R.
7.258	41.33	5	JKH	Tokio Japan
7.260	41.32	50	OZF4	Copenhagen Denmark
7.260	41.32	—	GSU	Overseas Service* G. Britain
7.260	41.32	100	VUD5	Delhi India
7.260	41.32	10	VUM2	Madras India
7.260	41.32	1	—	Rome Italy
7.260	41.32	100	—	Tebrau Malaya
7.260	41.32	50	APK2	Karachi Pakistan
7.260	41.32	100	CSA22	Lisbon Portugal
7.260	41.32	—	—	Moscow, Russia U.S.S.R.
7.265	41.29	1	—	Dalat Fr. Indo-China
7.265	41.29	—	—	Moscow, Russia U.S.S.R.
7.270	41.27	1	—	Srinagar, Kashmir India
7.270	41.27	50	—	Tangier Tangier
7.271	41.27	100	—	Horby Sweden
7.272	41.26	3	YDB3	Djakarta, Java Indonesia
7.275	41.24	100	VUD10	Delhi India
7.275	41.24	5	ZRH	Johannesburg S. Africa
7.280	41.21	12	THA	Algiers Algeria
7.280	41.21	100	VLA7	Shepparton, Vic. Australia
7.280	41.21	2	VLT7	Port Moresby Brit. New Guinea
7.280	41.21	100	—	Allouis France
7.280	41.21	—	GWN	Overseas Service* G. Britain
7.280	41.21	100	—	Tangier Tangier
7.280	41.21	—	—	Moscow, Russia U.S.S.R.
7.280	41.21	25	HVJ	Vatican City Vatican City
7.285	41.18	5	JKJ	Tokio Japan
7.285	41.18	15	ZEAK	Salisbury S. Rhodesia
7.285	41.18	100	TAS	Ankara Turkey
7.286	41.18	1	FIA6	Duala Camerouns
7.289	41.15	3	—	Tangier Tangier
7.290	41.15	12	—	Saigon Fr. Indo-China

Mc/s	Metres	kW	Call	Station and Country	
7.290	41.15	100	VUD5	Delhi	India
7.290	41.15	7.5	ZL13	Wellington	New Zealand
7.290	41.15	—	—	Moscow, Russia	U.S.S.R.
7.290	41.15	20	—	Norden	W. Germany
7.295	41.12	1.3	ZOY	Accra	Gold Coast
7.295	41.12	5	—	Johannesburg	S. Africa
7.295	41.12	—	—	Moscow, Russia	U.S.S.R.
7.295	41.12	100	—	Munich	W. Germany
7.298	41.11	10	SVD2	Athens	Greece
7.300	41.10	—	—	Moscow, Russia	U.S.S.R.
7.310	41.04	—	—	Moscow, Russia	U.S.S.R.
7.315	41.01	1	YSO	San Salvador	Salvador
7.320	40.98	—	—	Moscow, Russia	U.S.S.R.
7.325	40.96	—	GRJ	Overseas Service*	G. Britain
7.325	40.96	—	—	Moscow, Russia	U.S.S.R.
7.327	40.94	1	BEM6	Lanchow	China
7.330	40.93	50	—	Kharkov, Ukraine	U.S.S.R.
7.330	40.93	—	—	Moscow, Russia	U.S.S.R.
7.340	40.87	—	—	Leningrad, Russia	U.S.S.R.
7.340	40.87	—	—	Moscow, Russia	U.S.S.R.
7.350	40.81	30	3AM4	Monte Carlo	Monaco
7.360	40.76	25	HET3	Schwarzenburg	Switzerland
7.360	40.76	—	RWG	Moscow, Russia	U.S.S.R.
7.370	40.71	—	—	Moscow, Russia	U.S.S.R.
7.380	40.65	1	—	Mogadishu	Italian Somaliland
7.380	40.65	—	—	Moscow, Russia	U.S.S.R.
7.400	40.54	—	—	Moscow, Russia	U.S.S.R.
7.410	40.49	1	—	Hanoi	Fr. Indo-China
7.420	40.43	—	—	Moscow, Russia	U.S.S.R.
7.440	40.32	25	—	Stalinabad, Tadzhik	U.S.S.R.
7.496	40.03	10	—	Shensi	China
7.501	40.00	2	EA8AB	Teneriffe	Canary Is.
7.518	39.90	1	FET	Madrid	Spain
7.585	39.57	1	CR6RO	Silvo Porto	Angola
7.650	39.22	—	—	Leningrad, Russia	U.S.S.R.
7.660	39.16	1	CE766	Santiago	Chile
7.670	39.11	5	—	Sofia	Bulgaria
7.849	38.24	1	YNWW	Granada	Nicaragua
7.850	38.22	3	ZAA	Tirana	Albania

Mc/s	Metres	kW	Call	Station and Country	
7.865	38.14	10	SUX	Cairo	<i>Egypt</i>
7.935	37.81	5	HLKA	Pusan	<i>Korea</i>
7.940	37.78	1.2	FET	Alicante	<i>Spain</i>
7.945	37.76	50	—	Rome	<i>Italy</i>
7.950	37.74	1	—	Ahwaz	<i>Persia</i>
7.960	37.69	1	—	Isfahan	<i>Persia</i>
8.030	37.36	2	FXE	Beirut	<i>Lebanon</i>
8.110	36.99	20	EPF	Teheran	<i>Persia</i>
8.125	36.92	1	TGBA	Mazatenango	<i>Guatemala</i>
8.170	36.72	7.5	4XB24	Haifa	<i>Israel</i>
8.215	36.52	3	—	Scutari	<i>Albania</i>
8.257	36.34	100	—	Allouis	<i>France</i>
8.263	36.30	10	—	Peking	<i>China</i>
8.265	36.30	5	VED	Edmonton, Alberta	<i>Canada</i>
8.665	34.62	1	COJK	Camaguey	<i>Cuba</i>
8.820	34.01	20	—	Khabarovsk, Russia	<i>U.S.S.R.</i>
8.825	34.00	5	COCQ	Havana	<i>Cuba</i>
8.955	33.50	1.2	COKG	Santiago	<i>Cuba</i>
9.007	33.31	50	4XB21	Tel Aviv	<i>Israel</i>
9.030	33.22	10	—	Shensi	<i>China</i>
9.035	33.21	1	COBZ	Havana	<i>Cuba</i>
9.060	33.11	7	TFK	Reykjavik	<i>Iceland</i>
9.090	33.00	1	CR6RL	Loando	<i>Angola</i>
9.145	32.76	100	ORU	Wavre	<i>Belgium</i>
9.145	32.76	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.165	32.73	1	CR6RB	Benguela	<i>Angola</i>
9.197	32.62	5	CE920	Punta Arenas	<i>Chile</i>
9.220	32.55	7.5	OTH	Leopoldville	<i>Belg. Congo</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	—	St. Isabel	<i>Spanish Guinea</i>
9.290	32.28	5	PRN9	Rio de Janeiro	<i>Brazil</i>
9.320	32.19	25	LRS2	Buenos Aires	<i>Argentina</i>
9.336	32.13	1	OAX4J	Lima	<i>Peru</i>
9.340	32.12	25	—	Andorra	<i>Andorra</i>
9.340	32.12	1	CR6RG	Dondo	<i>Angola</i>
9.340	32.12	10	—	Alma Ata, Kazak	<i>U.S.S.R.</i>
9.360	32.05	40	—	Madrid	<i>Spain</i>

Mc/s	Metres	kW	Call	Station and Country
9.363	32.04	1	COBC	Havana <i>Cuba</i>
9.378	31.98	20	—	Khabarovsk, Russia <i>U.S.S.R.</i>
9.380	31.98	50	OTM2	Leopoldville <i>Belg. Congo</i>
9.380	31.97	10	—	Alma Ata, Kazak <i>U.S.S.R.</i>
9.390	31.95	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.404	31.91	2	OAX4W	Lima <i>Peru</i>
9.410	31.88	—	GRI	Overseas Service* <i>G. Britain</i>
9.410	31.88	—	—	Leningrad, Russia <i>U.S.S.R.</i>
9.435	31.80	5	COCH	Havana <i>Cuba</i>
9.440	31.78	50	FZI	Brazzaville <i>Fr. Eq. Africa</i>
9.450	31.75	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.465	31.70	100	TAP	Ankara <i>Turkey</i>
9.470	31.68	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.480	31.65	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.480	31.65	20	—	Vladivostok, Russia <i>U.S.S.R.</i>
9.483	31.63	50	APK	Karachi <i>Pakistan</i>
9.490	31.61	1	KUJ39	Guam <i>Mariana Is.</i>
9.490	31.61	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.491	31.60	15	ZEA	Salisbury <i>S. Rhodesia</i>
9.497	31.59	5	CP38	La Paz <i>Bolivia</i>
9.500	31.58	2	VLI9	Sydney, N.S.W. <i>Australia</i>
9.500	31.58	10	XEWW	Mexico City <i>Mexico</i>
9.500	31.58	100	—	Tangier <i>Tangier</i>
9.500	31.58	100	—	Minsk, Byelorussia <i>U.S.S.R.</i>
9.500	31.58	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.501	31.58	1	DZH3	Manila, Luzon <i>Philippines</i>
9.504	31.57	30	OLR3B	Podebrady <i>Czechoslovakia</i>
9.505	31.57	5	PRB22	Sao Paulo <i>Brazil</i>
9.505	31.57	15	JBD	Osaka <i>Japan</i>
9.505	31.57	1	HOLA	Colon <i>Panama</i>
9.507	31.56	10	YUC	Belgrade <i>Yugoslavia</i>
9.510	31.55	—	GSB	Overseas Service* <i>G. Britain</i>
9.510	31.55	4	YVXJ	Barquisimeto <i>Venezuela</i>
9.515	31.53	1	FNRI	Tananarive <i>Madagascar</i>
9.515	31.53	100	TAT	Ankara <i>Turkey</i>
9.515	31.53	200	KRCA1	Dixon, Cal. <i>U.S.A.</i>
9.515	31.53	—	—	Moscow, Russia <i>U.S.S.R.</i>
9.520	31.51	2	VLT9	Port Moresby <i>Brit. 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	5	HJKF	Bogota <i>Colombia</i>
9.520	31.51	50	OZF	Copenhagen <i>Denmark</i>
9.520	31.51	7.5	ZL18	Wellington <i>New Zealand</i>
9.520	31.51	200	WLWO5	Cincinnati, Ohio <i>U.S.A.</i>
9.523	31.50	5	ZRG	Johannesburg <i>S. Africa</i>
9.525	31.50	—	GWJ	Overseas Service* <i>G. Britain</i>
9.528	31.49	2	ZBW3	Victoria <i>Hong Kong</i>
9.530	31.48	5	COCO	Havana <i>Cuba</i>
9.530	31.48	3	ZDJ4	Bathurst <i>Gambia</i>
9.530	31.48	10	VUC2	Calcutta <i>India</i>
9.530	31.48	50	—	Manila, Luzon <i>Philippines</i>
9.530	31.48	7.5	—	Warsaw <i>Poland</i>
9.530	31.48	80	WRUL5	Boston, Mass. <i>U.S.A.</i>
9.530	31.48	50	WDS1	Brentwood, N.Y. <i>U.S.A.</i>
9.530	31.48	100	KCBR4	Delano, Cal. <i>U.S.A.</i>
9.530	31.48	100	WGEO1	Schenectady, N.Y. <i>U.S.A.</i>
9.530	31.48	100	—	Munich <i>W. Germany</i>
9.535	31.46	1	VPD2	Suva <i>Fiji Is.</i>
9.535	31.46	100	—	Horby <i>Sweden</i>
9.535	31.46	25	HER4	Schwarzenburg <i>Switzerland</i>
9.538	31.45	7.5	—	Rangoon <i>Burma</i>
9.540	31.45	10	VLG9	Lyndhurst, Vic. <i>Australia</i>
9.540	31.45	2	VLR9	Lyndhurst, Vic. <i>Australia</i>
9.540	31.45	50	VLC9	Shepparton, Vic. <i>Australia</i>
9.540	31.45	2	VL19	Sydney, N.S.W. <i>Australia</i>
9.540	31.45	100	—	Allouis <i>France</i>
9.540	31.45	7.5	ZL2	Wellington <i>New Zealand</i>
9.540	31.45	100	—	Munich <i>W. Germany</i>
9.545	31.43	10	LRV	Buenos Aires <i>Argentina</i>
9.545	31.43	1	YSL1	San Salvador <i>Salvador</i>
9.545	31.43	25	HED5	Schwarzenburg <i>Switzerland</i>
9.545	31.43	200	WLWO3	Cincinnati, Ohio <i>U.S.A.</i>
9.545	31.43	10	RV102	Petropavlovsk, Russia <i>U.S.S.R.</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>

Mc/s	Metres	kW	Call	Station and Country	
9.550	31.41	10	VUB2	Bombay	India
9.550	31.41	20	VUD	Delhi	India
9.550	31.41	10	LKJ	Tromso	Norway
9.550	31.41	1	DZI2	San Juan, Rizal	Philippines
9.550	31.41	50	—	Tangier	Tangier
9.550	31.41	50	WRUL	Boston, Mass.	U.S.A.
9.550	31.41	50	WRCA4	Bound Brook, N.J.	U.S.A.
9.550	31.41	—	—	Moscow, Russia	U.S.S.R.
9.550	31.41	25	HVJ	Vatican City	Vatican City
9.552	31.41	5	YSS	San Salvador	Salvador
9.554	31.40	5	YDQ	Macassar, Celebes	Indonesia
9.554	31.40	1	XETT	Mexico City	Mexico
9.555	31.40	15	OIX2	Pori	Finland
9.555	31.40	7.5	—	Warsaw	Poland
9.555	31.40	20	—	Damascus	Syria
9.555	31.40	50	WRUL	Boston, Mass.	U.S.A.
9.555	31.40	—	—	Moscow, Russia	U.S.S.R.
9.560	31.38	100	—	Allouis	France
9.560	31.38	5	JBD2	Osaka	Japan
9.560	31.38	5	—	Dakar	Senegal
9.560	31.38	200	WLWO3	Cincinnati, Ohio	U.S.A.
9.562	31.37	10	OAX4T	Lima	Peru
9.565	31.36	60	ZYK3	Recife	Brazil
9.565	31.36	100	VUD5	Delhi	India
9.565	31.36	25	—	Komsomolsk, Siberia	U.S.S.R.
9.565	31.36	—	—	Moscow, Russia	U.S.S.R.
9.568	31.35	25	HVJ	Vatican City	Vatican City
9.570	31.35	10	THA	Algiers	Algeria
9.570	31.35	100	—	Colombo	Ceylon
9.570	31.35	100	—	Allouis	France
9.570	31.35	—	GWX	Overseas Service*	G. Britain
9.570	31.35	60	—	Rome	Italy
9.570	31.35	7.5	—	Warsaw	Poland
9.570	31.35	5	—	Bucharest	Rumania
9.570	31.35	50	WRUL1	Boston, Mass.	U.S.A.
9.570	31.35	100	KCBR4	Delano, Cal.	U.S.A.
9.570	31.35	50	KWID2	San Francisco, Cal.	U.S.A.
9.575	31.33	7.5	VUD8	Delhi	India

Mc/s	Metres	kW	Call	Station and Country	
9.575	31.33	50	—	Tangier	<i>Tangier</i>
9.580	31.32	10	VLH9	Lyndhurst, Vic.	<i>Australia</i>
9.580	31.32	100	VLA9	Shepparton, Vic.	<i>Australia</i>
9.580	31.32	50	VLC9	Shepparton, Vic.	<i>Australia</i>
9.580	31.32	—	GSC	Overseas Service*	<i>G. Britain</i>
9.580	31.32	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.585	31.30	50	CKLP	Sackville, N.B.	<i>Canada</i>
9.585	31.30	7.5	—	Warsaw	<i>Poland</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	30	PCJ	Huizen	<i>Netherlands</i>
9.590	31.28	100	KRCA4	Dixon, Cal.	<i>U.S.A.</i>
9.590	31.28	100	—	Kiev, Ukraine	<i>U.S.S.R.</i>
9.593	31.27	2	CE960	Santiago	<i>Chile</i>
9.595	31.26	1.5	—	Athlone	<i>Ireland</i>
9.595	31.26	100	—	Tangier	<i>Tangier</i>
9.597	31.26	5	—	Johannesburg	<i>S. Africa</i>
9.600	31.25	—	GRY	Overseas Service*	<i>G. Britain</i>
9.600	31.25	7.5	—	Warsaw	<i>Poland</i>
9.600	31.25	200	KCBR1	Delano, Cal.	<i>U.S.A.</i>
9.600	31.25	200	KRCA	Dixon, Cal.	<i>U.S.A.</i>
9.600	31.25	—	—	Leningrad, Russia	<i>U.S.S.R.</i>
9.605	31.24	5	JKL2	Tokio	<i>Japan</i>
9.606	31.23	7.5	—	Athens	<i>Greece</i>
9.607	31.23	1	HP5J	Panama City	<i>Panama</i>
9.610	31.22	2	VLW9	Perth, W.A.	<i>Australia</i>
9.610	31.22	10	VLX9	Perth, W.A.	<i>Australia</i>
9.610	31.22	100	VLB9	Shepparton, Vic.	<i>Australia</i>
9.610	31.22	25	ZYC8	Rio de Janeiro	<i>Brazil</i>
9.610	31.22	50	CHLS	Sackville, N.B.	<i>Canada</i>
9.610	31.22	7.5	CBFX	Vercheres, Quebec	<i>Canada</i>
9.610	31.22	10	CR8AD	Goa	<i>Goa</i>
9.610	31.22	5	XERQ	Mexico City	<i>Mexico</i>
9.610	31.22	100	LLG	Fredrikstad	<i>Norway</i>
9.610	31.22	5	ZRL	Cape Town	<i>S. Africa</i>
9.610	31.22	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.612	31.22	100	—	Belgrade	<i>Yugoslavia</i>
9.615	31.20	100	VLA9	Shepparton, Vic.	<i>Australia</i>
9.615	31.20	7.5	APD	Dacca	<i>Pakistan</i>

Mc/s	Metres	kW	Call	Station and Country	
9.615	31.20	100	—	Tangier	<i>Tangier</i>
9.615	31.20	50	WRCA1	Bound Brook, N.J.	<i>U.S.A.</i>
9.615	31.20	50	WRCA2	Bound Brook, N.J.	<i>U.S.A.</i>
9.615	31.20	100	—	Munich	<i>W. Germany</i>
9.619	31.19	—	KZBN	Salzburg, U.S. Zone	<i>Austria</i>
9.619	31.19	3	TIDCR	San Jose	<i>Costa Rica</i>
9.620	31.19	1	ETA	Addis Ababa	<i>Ethiopia</i>
9.620	31.19	100	VUD5	Delhi	<i>India</i>
9.620	31.19	7.5	ZL8	Wellington	<i>New Zealand</i>
9.620	31.19	100	—	Horby	<i>Sweden</i>
9.620	31.19	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.620	31.19	20	CXA6	Montevideo	<i>Uruguay</i>
9.625	31.17	2	VP4RD	Port of Spain, Trinidad	<i>Brit. W. Indies</i>
9.625	31.17	—	GWO	Overseas Service*	<i>G. Britain</i>
9.625	31.17	100	—	Tebrau	<i>Malaya</i>
9.625	31.17	10	XEBT	Mexico City	<i>Mexico</i>
9.625	31.17	1	—	Maracaibo	<i>Venezuela</i>
9.630	31.15	50	CKLO	Sackville, N.B.	<i>Canada</i>
9.630	31.15	7.5	CBFO	Vercheres, Quebec	<i>Canada</i>
9.630	31.15	5	HJKC	Bogota	<i>Colombia</i>
9.630	31.15	20	VUD10	Delhi	<i>India</i>
9.630	31.15	100	—	Rome	<i>Italy</i>
9.630	31.15	50	APK	Karachi	<i>Pakistan</i>
9.630	31.15	100	—	Tangier	<i>Tangier</i>
9.630	31.15	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.634	31.14	20	VUD	Delhi	<i>India</i>
9.635	31.14	10	—	Fredrikstad	<i>Norway</i>
9.635	31.14	7.5	—	Warsaw	<i>Poland</i>
9.635	31.14	100	—	Tangier	<i>Tangier</i>
9.635	31.14	100	KRCA4	Dixon, Cal.	<i>U.S.A.</i>
9.635	31.14	100	—	Munich	<i>W. Germany</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, Luzon	<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>

Mc/s	Metres	kW	Call	Station and Country	
9.642	31.11	100	—	Allouis	<i>France</i>
9.642	31.11	25	HVJ	Vatican City	<i>Vatican City</i>
9.645	31.10	1.8	ZOY	Accra	<i>Gold Coast</i>
9.645	31.10	10	LLH	Fredrikstad	<i>Norway</i>
9.645	31.10	50	APK2	Karachi	<i>Pakistan</i>
9.645	31.10	3	—	Jidda	<i>Saudi Arabia</i>
9.650	31.09	100	VLB9	Shepparton, Vic.	<i>Australia</i>
9.650	31.09	7.5	ZJM8	Limassol	<i>Cyprus</i>
9.650	31.09	12	—	Saigon	<i>Fr. Indo-China</i>
9.650	31.09	100	KRHK	Honolulu	<i>Hawaii</i>
9.650	31.09	100	—	Tangier	<i>Tangier</i>
9.650	31.09	50	WDSI	Brentwood, N.Y.	<i>U.S.A.</i>
9.650	31.09	100	KCBR5	Delano, Cal.	<i>U.S.A.</i>
9.650	31.09	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.650	31.09	100	—	Munich	<i>W. Germany</i>
9.653	31.08	1	—	Lagos	<i>Nigeria</i>
9.654	31.07	50	—	Leopoldville	<i>Belg. Congo</i>
9.655	31.07	1	TIFC	San Jose	<i>Costa Rica</i>
9.655	31.07	5	JK12	Tokio	<i>Japan</i>
9.655	31.07	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.655	31.07	25	HVJ	Vatican City	<i>Vatican City</i>
9.660	31.06	25	LRX	Buenos Aires	<i>Argentina</i>
9.660	31.06	10	VLQ9	Brisbane, Qld.	<i>Australia</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	EQC	Teheran	<i>Persia</i>
9.660	31.06	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.664	31.04	—	—	Vienna, U.S.S.R. Zone	<i>Austria</i>
9.665	31.04	25	HEU3	Schwarzenburg	<i>Switzerland</i>
9.668	31.03	5	TGNB	Guatemala City	<i>Guatemala</i>
9.670	31.02	5	VUD3	Delhi	<i>India</i>
9.670	31.02	50	—	Rome	<i>Italy</i>
9.670	31.02	50	CSA24	Lisbon	<i>Portugal</i>
9.670	31.02	50	KGE11	Belmont, Cal.	<i>U.S.A.</i>
9.670	31.02	100	—	Kiev, Ukraine	<i>U.S.S.R.</i>
9.670	31.02	—	—	Moscow, Russia	<i>U.S.S.R.</i>
9.670	31.02	100	—	Munich	<i>W. Germany</i>
9.675	31.01	7.5	PRC20	Porto Alegre	<i>Brazil</i>

Mc/s	Metres	kW	Call	Station and Country	
9.675	31.01	100	—	Allouis	France
9.675	31.01	—	GWT	Overseas Service*	G. Britain
9.675	31.01	50	JOA3	Tokio	Japan
9.675	31.01	100	WRCA3	Bound Brook, N.J.	U.S.A.
9.680	30.99	10	VLH9	Lyndhurst, Vic.	Australia
9.680	30.99	5	VLR9	Lyndhurst, Vic.	Australia
9.680	30.99	100	VLB9	Shepparton, Vic.	Australia
9.680	30.99	50	VLC9	Shepparton, Vic.	Australia
9.680	30.99	1	HI2A	Santiago	Dominican Rep.
9.680	30.99	100	—	Allouis	France
9.680	30.99	10	VUD2	Delhi	India
9.680	30.99	1	XEQQ	Mexico City	Mexico
9.680	30.99	5	—	Johannesburg	S. Africa
9.680	30.99	10	—	Achkhabad, Turkmenia	U.S.S.R.
9.680	30.99	—	—	Moscow, Russia	U.S.S.R.
9.685	30.98	50	—	Tangier	Tangier
9.685	30.98	200	WLWO8	Cincinnati, Ohio	U.S.A.
9.690	30.96	10	LRA1	Buenos Aires	Argentina
9.690	30.96	—	GRX	Overseas Service*	G. Britain
9.690	30.96	7.5	—	Tebrau	Malaya
9.690	30.96	—	—	Moscow, Russia	U.S.S.R.
9.693	30.95	1	FIQA	Tananarive	Madagascar
9.695	30.94	5	JKM2	Osaka	Japan
9.695	30.94	1.5	FZF6	Fort de France	Martinique
9.700	30.93	5	—	Sofia	Bulgaria
9.700	30.93	—	GWY	Overseas Service*	G. Britain
9.700	30.93	1	—	Johannesburg	S. Africa
9.700	30.93	100	—	Tangier	Tangier
9.700	30.93	80	WRUL5	Boston, Mass.	U.S.A.
9.700	30.93	50	WRCA	Bound Brook, N.J.	U.S.A.
9.700	30.93	200	WLWO8	Cincinnati, Ohio	U.S.A.
9.700	30.93	50	KCBR3	Delano, Cal.	U.S.A.
9.700	30.93	—	—	Moscow, Russia	U.S.S.R.
9.705	30.92	1	CR6RD	Nova Lisboa	Angola
9.705	30.92	100	ORU	Wavre	Belgium
9.705	30.92	100	VUD	Delhi	India
9.710	30.90	50	CHLR	Sackville, N.B.	Canada
9.710	30.90	—	—	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
9.710	30.90	100	VUD	Delhi	India
9.710	30.90	100	YDF6	Djakarta, Java	Indonesia
9.710	30.90	100	—	Rome	Italy
9.710	30.90	5	—	Singapore	Malaya
9.710	30.90	—	—	Moscow, Russia	U.S.S.R.
9.711	30.90	5	FHE9	Dakar	Senegal
9.715	30.88	10	—	Cairo	Egypt
9.720	30.86	50	PRL7	Rio de Janeiro	Brazil
9.720	30.86	10	VUD	Delhi	India
9.720	30.86	—	—	Moscow, Russia	U.S.S.R.
9.727	30.84	12	—	Leipzig	E. Germany
9.727	30.84	10	CSA27	Lisbon	Portugal
9.730	30.83	10	CE970	Valparaiso	Chile
9.730	30.83	2	BEA8	Nanking	China
9.730	30.83	3	DZH7	Manila, Luzon	Philippines
9.735	30.82	7.5	HI2T	Ciudad Trujillo	Dominican Rep.
9.735	30.82	—	MCP	Overseas Service*	G. Britain
9.735	30.82	1	ZPA4	Ascuncion	Paraguay
9.735	30.82	—	—	Norden	W. Germany
9.740	30.80	—	VUD	Delhi	India
9.740	30.80	50	CSA26	Lisbon	Portugal
9.740	30.80	—	—	Moscow, Russia	U.S.S.R.
9.744	30.79	1	HCJB	Quito	Ecuador
9.745	30.79	7.5	ZYR57	Sao Paulo	Brazil
9.746	30.79	100	ORU	Wavre	Belgium
9.750	30.77	140	—	Cairo	Egypt
9.750	30.77	25	—	Saigon	Fr. Indo-China
9.750	30.77	—	—	Leningrad, Russia	U.S.S.R.
9.750	30.77	—	—	Moscow, Russia	U.S.S.R.
9.754	30.76	1	CR6RJ	Lubango	Angola
9.755	30.75	100	—	Allouis	France
9.757	30.75	5	—	Taiyuan	China
9.758	30.74	50	APK	Karachi	Pakistan
9.760	30.74	50	LRY	Buenos Aires	Argentina
9.760	30.74	—	MCR	Overseas Service*	G. Britain
9.760	30.74	—	—	Moscow, Russia	U.S.S.R.
9.764	30.73	10	TGWA	Guatemala City	Guatemala
9.765	30.72	20	—	Delhi	India

Mc/s	Metres	kW	Call	Station and Country	
9.765	30.72	—	—	Moscow, Russia	U.S.S.R.
9.766	30.72	100	ORU	Wavre	Belgium
9.766	30.72	100	—	Allouis	France
9.768	30.71	50	OTC2	Leopoldville	Belg. Congo
9.770	30.71	1	PRL4	Rio de Janeiro	Brazil
9.770	30.71	—	MCN	Overseas Service*	G. Britain
9.770	30.71	—	—	Moscow, Russia	U.S.S.R.
9.780	30.67	60	—	Rome	Italy
9.780	30.67	—	—	Moscow, Russia	U.S.S.R.
9.785	30.66	30	—	Monte Carlo	Monaco
9.790	30.64	—	—	Moscow, Russia	U.S.S.R.
9.800	30.61	—	—	Moscow, Russia	U.S.S.R.
9.814	30.57	7.5	CR7BJ	Lourenco Marques	Mozambique
9.825	30.54	—	GRH	Overseas Service*	G. Britain
9.830	30.52	—	—	Moscow, Russia	U.S.S.R.
9.832	30.51	100	—	Budapest	Hungary
9.832	30.51	40	EAQ	Madrid	Spain
9.833	30.51	1	COBL	Havana	Cuba
9.870	30.40	6.5	—	Khartoum	Sudan
9.871	30.40	5	ZRJ	Johannesburg	S. Africa
9.880	30.36	—	—	Moscow, Russia	U.S.S.R.
9.915	30.26	—	GRU	Overseas Service*	G. Britain
9.960	30.12	1.5	FZI	Brazzaville	Fr. Eq. Africa
9.969	30.09	1	HCJB	Quito	Ecuador
10.074	29.78	1.4	4VRW	Port au Prince	Haiti
10.076	29.78	10	BEC26	Taipei	Formosa
10.262	29.23	10	—	Peking	China
10.550	28.44	10	SUX	Cairo	Egypt
11.023	27.21	1	—	Hankow	China
11.027	27.21	10	CSA29	Lisbon	Portugal
11.090	27.05	1	CSA92	Ponta Delgada	Azores
11.180	26.83	—	—	Moscow, Russia	U.S.S.R.
11.570	25.93	50	APK3	Karachi	Pakistan
11.600	25.86	1	—	St. Isabel	Spanish Guinea
11.621	25.82	50	APK	Karachi	Pakistan
11.630	25.80	—	—	Moscow, Russia	U.S.S.R.
11.650	25.75	50	APK	Karachi	Pakistan
11.675	25.70	50	APK	Karachi	Pakistan

Mc/s	Metres	kW	Call	Station and Country
11.678	25.69	10	—	Achkhabad, Turkmenia U.S.S.R.
11.680	25.68	10	—	Peking China
11.680	25.68	3	HJCQ	Bogota Colombia
11.680	25.68	—	GRG	Overseas Service* G. Britain
11.682	25.68	25	HVJ	Vatican City Vatican City
11.685	25.67	10	—	Magadan, Russia U.S.S.R.
11.690	25.66	—	—	Moscow, Russia U.S.S.R.
11.695	25.65	1	HP5A	Panama City Panama
11.700	25.64	100	—	Allouis France
11.700	25.64	—	GVW	Overseas Service* G. Britain
11.700	25.64	50	—	Bangkok Siam
11.700	25.64	—	—	Moscow, Russia U.S.S.R.
11.705	25.63	50	CKXA	Sackville, N.B. Canada
11.705	25.63	7.5	CBFY	Vercheres, Quebec Canada
11.705	25.63	50	JOB4	Tokio Japan
11.705	25.63	100	—	Horby Sweden
11.705	25.63	100	—	Munich W. Germany
11.710	25.62	10	VLG11	Lyndhurst, Vic. Australia
11.710	25.62	100	VLA11	Shepparton, Vic. Australia
11.710	25.62	100	VUD7	Delhi India
11.710	25.62	100	—	Tangier Tangier
11.710	25.62	50	WRUL1	Boston, Mass. U.S.A.
11.710	25.62	200	WLWO5	Cincinnati, Ohio U.S.A.
11.710	25.62	—	—	Moscow, Russia U.S.S.R.
11.713	25.61	7.5	OTM4	Leopoldville Belg. Congo
11.715	25.61	25	HEI5	Schwarzenburg Switzerland
11.718	25.60	7.5	ZJM7	Limassol Cyprus
11.718	25.60	7.5	—	Athens Greece
11.720	25.60	50	PRL8	Rio de Janeiro Brazil
11.720	25.60	50	CHOL	Sackville, N.B. Canada
11.720	25.60	7.5	CBFL	Vercheres, Quebec Canada
11.720	25.60	2	CKRX	Winnipeg, Manitoba Canada
11.720	25.60	16	HNG	Baghdad Iraq
11.720	25.60	—	—	Moscow, Russia U.S.S.R.
11.725	25.59	30	OLR4E	Podebrady Czechoslovakia
11.725	25.59	50	APK	Karachi Pakistan
11.725	25.59	—	—	Moscow, Russia U.S.S.R.
11.730	25.58	5	CE1173	Vina del Mar Chile

Mc/s	Metres	kW	Call	Station and Country
11.730	25.58	15	COCY	Havana <i>Cuba</i>
11.730	25.58	—	GVV	Overseas Service* <i>G. Britain</i>
11.730	25.58	5	PHI	Lopik <i>Netherlands</i>
11.730	25.58	100	KGEI2	Belmont, Cal. <i>U.S.A.</i>
11.730	25.58	50	WRUL	Boston, Mass. <i>U.S.A.</i>
11.735	25.56	2	ZYA58	Rio de Janeiro <i>Brazil</i>
11.735	25.56	10	BED6	Taipei <i>Formosa</i>
11.735	25.56	8	LKQ	Fredrikstad <i>Norway</i>
11.735	25.56	6	CXA7	Montevideo <i>Uruguay</i>
11.735	25.56	100	—	Belgrade <i>Yugoslavia</i>
11.740	25.55	100	VLB11	Shepparton, Vic. <i>Australia</i>
11.740	25.55	1.5	—	Athlone <i>Ireland</i>
11.740	25.55	7.5	—	Warsaw <i>Poland</i>
11.740	25.55	50	WRUL1	Boston, Mass. <i>U.S.A.</i>
11.740	25.55	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.740	25.55	25	HVJ	Vatican City <i>Vatican City</i>
11.743	25.54	4	CE1174	Santiago <i>Chile</i>
11.743	25.54	7.5	—	Lourenco Marques <i>Mozambique</i>
11.750	25.53	—	GSD	Overseas Service* <i>G. Britain</i>
11.750	25.53	4	—	Jidda <i>Saudi Arabia</i>
11.750	25.53	20	—	Damascus <i>Syria</i>
11.750	25.53	25	—	Komsomolsk, Siberia <i>U.S.S.R.</i>
11.750	25.53	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.755	25.52	50	KRCA3	Dixon, Cal. <i>U.S.A.</i>
11.760	25.51	10	VLG11	Lyndhurst, Vic. <i>Australia</i>
11.760	25.51	100	VLA11	Shepparton, Vic. <i>Australia</i>
11.760	25.51	100	VLB11	Shepparton, Vic. <i>Australia</i>
11.760	25.51	50	VLC11	Shepparton, Vic. <i>Australia</i>
11.760	25.51	50	CKRA	Sackville, N.B. <i>Canada</i>
11.760	25.51	7.5	CBFA	Vercheres, Quebec <i>Canada</i>
11.760	25.51	30	OLR4B	Poděbrady <i>Czechoslovakia</i>
11.760	25.51	20	VUD11	Delhi <i>India</i>
11.760	25.51	7.5	CR7BF	Lourenco Marques <i>Mozambique</i>
11.760	25.51	100	—	Lisbon <i>Portugal</i>
11.760	25.51	50	—	Tangier <i>Tangier</i>
11.760	25.51	20	TAK	Ankara <i>Turkey</i>

Mc/s	Metres	kW	Call	Station and Country	
11.765	25.50	25	ZYB8	Sao Paulo	<i>Brazil</i>
11.765	25.50	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.770	25.49	100	VLA11	Shepparton, Vic.	<i>Australia</i>
11.770	25.49	—	GVU	Overseas Service*	<i>G. Britain</i>
11.770	25.49	50	APK	Karachi	<i>Pakistan</i>
11.770	25.49	100	KCBR	Delano, Cal.	<i>U.S.A.</i>
11.775	25.48	25	HEI6	Schwarzenburg	<i>Switzerland</i>
11.775	25.48	50	WRCA1	Bound Brook, N.J.	<i>U.S.A.</i>
11.775	25.48	100	—	Munich	<i>W. Germany</i>
11.779	25.47	1	COBH	Havana	<i>Cuba</i>
11.780	25.47	10	VUD	Delhi	<i>India</i>
11.780	25.47	7.5	ZL3	Wellington	<i>New Zealand</i>
11.780	25.47	80	WRUL5	Boston, Mass.	<i>U.S.A.</i>
11.780	25.47	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.782	25.46	1	XENN	Mexico City	<i>Mexico</i>
11.785	25.46	—	—	Vienna, U.S.S.R. Zone	<i>Austria</i>
11.785	25.46	100	YDF2	Djakarta, Java	<i>Indonesia</i>
11.785	25.46	100	—	Kiev, Ukraine	<i>U.S.S.R.</i>
11.790	25.45	—	GWV	Overseas Service*	<i>G. Britain</i>
11.790	25.45	100	KRH0	Honolulu	<i>Hawaii</i>
11.790	25.45	100	VUD5	Delhi	<i>India</i>
11.790	25.45	—	—	Rome	<i>Italy</i>
11.790	25.45	50	WRUL2	Boston, Mass.	<i>U.S.A.</i>
11.790	25.45	50	WRCA	Bound Brook, N.J.	<i>U.S.A.</i>
11.790	25.45	50	WDS1	Brentwood, N.Y.	<i>U.S.A.</i>
11.790	25.45	50	KRCA3	Dixon, Cal.	<i>U.S.A.</i>
11.790	25.45	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.795	25.43	20	—	Norden	<i>W. Germany</i>
11.797	25.42	100	—	Lisbon	<i>Portugal</i>
11.798	25.42	7.5	—	Warsaw	<i>Poland</i>
11.800	25.42	—	GWH	Overseas Service*	<i>G. Britain</i>
11.800	25.42	5	JKI4	Tokio	<i>Japan</i>
11.800	25.42	20	—	Khabarovsk, Russia	<i>U.S.S.R.</i>
11.805	25.41	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.810	25.40	10	VLG11	Lyndhurst, Vic.	<i>Australia</i>
11.810	25.40	100	VLA11	Shepparton, Vic.	<i>Australia</i>
11.810	25.40	100	VLB11	Shepparton, Vic.	<i>Australia</i>
11.810	25.40	50	IBU2	Milan	<i>Italy</i>

Mc/s	Metres	kW	Call	Station and Country	
11.810	25.40	7.5	ZL9	Wellington	<i>New Zealand</i>
11.810	25.40	50	APK	Karachi	<i>Pakistan</i>
11.810	25.40	7.5	HOXB	Panama City	<i>Panama</i>
11.810	25.40	50	KCBB2	Delano, Cal.	<i>U.S.A.</i>
11.810	25.40	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.812	25.40	7.5	—	Warsaw	<i>Poland</i>
11.815	25.39	10	—	Cairo	<i>Egypt</i>
11.815	25.39	25	HEU5	Schwarzenburg	<i>Switzerland</i>
11.815	25.39	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.820	25.38	—	GSN	Overseas Service*	<i>G. Britain</i>
11.820	25.38	100	—	Tebrau	<i>Malaya</i>
11.820	25.38	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.825	23.37	60	ZYK2	Recife	<i>Brazil</i>
11.825	25.37	50	JKI6	Tokio	<i>Japan</i>
11.825	25.37	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.830	25.36	12	—	Saigon	<i>Fr. Indo-China</i>
11.830	25.36	10	VUD4	Delhi	<i>India</i>
11.830	25.36	100	—	Tangier	<i>Tangier</i>
11.830	25.36	50	WRUL	Boston, Mass.	<i>U.S.A.</i>
11.830	25.36	50	WRCA3	Bound Brook, N.J.	<i>U.S.A.</i>
11.830	25.36	50	WDS1	Brentwood, N.Y.	<i>U.S.A.</i>
11.830	25.36	50	WGEO2	Schenectady, N.Y.	<i>U.S.A.</i>
11.830	25.36	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.833	25.35	5	CXA19	Montevideo	<i>Uruguay</i>
11.835	25.35	100	—	Lisbon	<i>Portugal</i>
11.835	25.35	100	—	Tangier	<i>Tangier</i>
11.840	25.34	5	LRT	Tucuman	<i>Argentina</i>
11.840	25.34	10	VLG11	Lyndhurst, Vic.	<i>Australia</i>
11.840	25.34	2	VLW11	Perth, W.A.	<i>Australia</i>
11.840	25.34	100	VLA11	Shepparton, Vic.	<i>Australia</i>
11.840	25.34	30	OLR4A	Podebrady	<i>Czechoslovakia</i>
11.840	25.34	—	GWQ	Overseas Service*	<i>G. Britain</i>
11.840	25.34	50	—	Rome	<i>Italy</i>
11.840	25.34	1.5	V3USE	Port Louis	<i>Mauritius</i>
11.840	25.34	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.845	25.33	100	—	Allouis	<i>France</i>
11.845	25.33	50	APK2	Karachi	<i>Pakistan</i>
11.845	25.33	7.5	—	Warsaw	<i>Poland</i>
11.846	25.32	5	—	Jidda	<i>Saudi Arabia</i>

Mc/s	Metres	kW	Call	Station and Country	
11.850	25.32	10	VLG11	Lyndhurst, Vic.	<i>Australia</i>
11.850	25.32	100	VLA11	Shepparton, Vic.	<i>Australia</i>
11.850	25.32	100	VLB11	Shepparton, Vic.	<i>Australia</i>
11.850	25.32	100	ORU	Wavre	<i>Belgium</i>
11.850	25.32	5	TGNC	Guatemala City	<i>Guatemala</i>
11.850	25.32	20	VUD11	Delhi	<i>India</i>
11.850	25.32	1.2	ZPA3	Asuncion	<i>Paraguay</i>
11.850	25.32	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.852	25.31	8	LLK	Fredrikstad	<i>Norway</i>
11.857	25.31	2	DZH9	Manila, Luzon	<i>Philippines</i>
11.860	25.30	—	GSE	Overseas Service*	<i>G. Britain</i>
11.860	25.30	100	KCBR4	Delano, Cal.	<i>U.S.A.</i>
11.860	25.30	50	KWID2	San Francisco, Cal.	<i>U.S.A.</i>
11.860	25.30	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.862	25.29	1	CR6RC	Loando	<i>Angola</i>
11.865	25.28	10	PRA8	Recife	<i>Brazil</i>
11.865	25.28	100	HER5	Schwarzenburg	<i>Switzerland</i>
11.870	25.27	7.5	VUD9	Delhi	<i>India</i>
11.870	25.27	50	—	Tangier	<i>Tangier</i>
11.870	25.27	50	WBOS	Boston, Mass.	<i>U.S.A.</i>
11.870	25.27	100	KCBR4	Delano, Cal.	<i>U.S.A.</i>
11.870	25.27	50	KRCA3	Dixon, Cal.	<i>U.S.A.</i>
11.870	25.27	50	KWID2	San Francisco, Cal.	<i>U.S.A.</i>
11.870	25.27	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.875	25.26	30	OLR4C	Podebrady	<i>Czechoslovakia</i>
11.875	25.26	7.5	APD	Dacca	<i>Pakistan</i>
11.875	25.26	100	—	Munich	<i>W. Germany</i>
11.880	25.25	5	LRA	Buenos Aires	<i>Argentina</i>
11.880	25.25	10	VLH11	Lyndhurst, Vic.	<i>Australia</i>
11.880	25.25	50	VLC11	Shepparton, Vic.	<i>Australia</i>
11.880	25.25	—	GRE	Overseas Service*	<i>G. Britain</i>
11.880	25.25	7.5	—	Tebrau	<i>Malaya</i>
11.880	25.25	1	XEHH	Mexico City	<i>Mexico</i>
11.880	25.25	100	—	Horby	<i>Sweden</i>
11.880	25.25	100	TAO	Ankara	<i>Turkey</i>
11.880	25.25	—	—	Moscow, Russia	<i>U.S.S.R.</i>
11.885	25.24	25	—	Allouis	<i>France</i>
11.885	25.24	50	APK	Karachi	<i>Pakistan</i>
11.885	25.24	—	—	Moscow, Russia	<i>U.S.S.R.</i>

Mc/s	Metres	kW	Call	Station and Country
11.885	25.24	10	—	Petropavlovsk, Russia <i>U.S.S.R.</i>
11.890	25.23	—	GWW	Overseas Service* <i>G. Britain</i>
11.890	25.23	50	—	Manila, Luzon <i>Philippines</i>
11.890	25.23	50	WRCA2	Bound Brook, N.J. <i>U.S.A.</i>
11.895	25.22	1	VPD2	Suva <i>Fiji Is.</i>
11.895	25.22	50	—	Manila, Luzon <i>Philippines</i>
11.895	25.22	12	FHE3	Dakar <i>Senegal</i>
11.896	25.22	20	CXA10	Montevideo <i>Uruguay</i>
11.900	25.21	10	VLG11	Lyndhurst, Vic. <i>Australia</i>
11.900	25.21	100	VLA11	Shepparton, Vic. <i>Australia</i>
11.900	25.21	50	CKEX	Sackville, N.B. <i>Canada</i>
11.900	25.21	10	XEXE	Mexico City <i>Mexico</i>
11.900	25.21	100	WGEO1	Schenectady, N.Y. <i>U.S.A.</i>
11.900	25.21	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.905	25.20	60	—	Rome <i>Italy</i>
11.910	25.19	—	MCO	Overseas Service* <i>G. Britain</i>
11.910	25.19	1	HSP5	Bangkok <i>Siam</i>
11.910	25.19	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.911	25.19	100	—	Budapest <i>Hungary</i>
11.915	25.18	10	HCJB	Quito <i>Ecuador</i>
11.915	25.18	10	BED4	Taipei <i>Formosa</i>
11.915	25.18	100	VUD	Delhi <i>India</i>
11.915	25.18	20	—	Damascus <i>Syria</i>
11.920	25.17	100	—	Allouis <i>France</i>
11.920	25.17	25	—	Saigon <i>Fr. Indo-China</i>
11.920	25.17	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.930	25.15	—	GVX	Overseas Service* <i>G. Britain</i>
11.930	25.15	—	—	Moscow, Russia <i>U.S.S.R.</i>
11.936	25.14	5	—	Johannesburg <i>S. Africa</i>
11.938	25.14	5	CE1190	Valparaiso <i>Chile</i>
11.940	25.13	12	CNR2	Rabat <i>Fr. Morocco</i>
11.940	25.13	20	VUD10	Delhi <i>India</i>
11.940	25.13	100	—	Djakarta, Java <i>Indonesia</i>
11.940	25.13	10	DZI5	Manila, Luzon <i>Philippines</i>
11.940	25.13	100	—	Tangier <i>Tangier</i>
11.945	25.12	—	MCQ	Overseas Service* <i>G. Britain</i>
11.948	25.11	25	—	Saigon <i>Fr. Indo-China</i>
11.949	25.11	50	LRV	Buenos Aires <i>Argentina</i>

Mc/s	Metres	kW	Call	Station and Country	
11.950	25.10	10	PRL5	Rio de Janeiro	Brazil
11.950	25.10	5	—	Santiago	Chile
11.950	25.10	100	VUD	Delhi	India
11.950	25.10	5	ZPA5	Encarnacion	Paraguay
11.950	25.10	5	—	Jidda	Saudi Arabia
11.954	25.09	10	CR7BE	Lourenco Marques	Mozambique
11.955	25.09	—	GVY	Overseas Service*	G. Britain
11.955	25.09	100	—	Tebrau	Malaya
11.955	25.09	—	—	Moscow, Russia	U.S.S.R.
11.960	25.08	—	MCT	Overseas Service*	G. Britain
11.960	25.08	—	—	Moscow, Russia	U.S.S.R.
11.962	25.08	100	CSA	Lisbon	Portugal
11.965	25.07	10	—	Cairo	Egypt
11.965	25.07	100	VUD	Delhi	India
11.970	25.06	3	TIHH	San Jose	Costa Rica
11.970	25.06	—	—	Moscow, Russia	U.S.S.R.
11.972	25.06	7	FZI	Brazzaville	Fr. Eq. Africa
11.975	25.05	7.5	—	Colombo	Ceylon
11.980	25.04	—	—	Moscow, Russia	U.S.S.R.
11.995	25.01	50	CSA32	Lisbon	Portugal
12.003	24.99	1	CE1180	Santiago	Chile
12.020	24.96	—	—	Moscow, Russia	U.S.S.R.
12.033	24.93	4	—	Bucharest	Rumania
12.040	24.92	—	GRV	Overseas Service*	G. Britain
12.095	24.80	—	GRF	Overseas Service*	G. Britain
12.174	24.65	7	TFJ	Reykjavik	Iceland
12.270	24.45	—	—	Moscow, Russia	U.S.S.R.
12.865	23.32	10	CSB51	Lisbon	Portugal
13.620	22.03	10	—	Peking	China
15.000	20.00	10	—	Alma Ata, Kazak	U.S.S.R.
15.000	20.00	—	—	Moscow, Russia	U.S.S.R.
15.040	19.95	—	—	Moscow, Russia	U.S.S.R.
15.055	19.92	1	ETAA	Addis Ababa	Ethiopia
15.060	19.92	10	—	Peking	China
15.070	19.91	—	GWC	Overseas Service*	G. Britain
15.085	19.89	100	VUD	Delhi	India
15.090	19.88	50	CKLX	Sackville, N.B.	Canada
15.090	19.88	7.5	CBLX	Vercheres, Quebec	Canada

Mc/s	Metres	kW	Call	Station and Country	
15.090	19.88	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.092	19.88	1.5	V3USE	Port Louis	<i>Mauritius</i>
15.095	19.87	50	HVJ	Vatican City	<i>Vatican City</i>
15.100	19.87	5	TGNA	Guatemala City	<i>Guatemala</i>
15.100	19.87	14	EPB	Teheran	<i>Persia</i>
15.105	19.86	1	OBX4Q	Lima	<i>Peru</i>
15.105	19.86	50	KGE1	Belmont, Cal.	<i>U.S.A.</i>
15.105	19.86	50	KCBR2	Delano, Cal.	<i>U.S.A.</i>
15.110	19.85	—	GWG	Overseas Service*	<i>G. Britain</i>
15.110	19.85	10	CSA35	Lisbon	<i>Portugal</i>
15.110	19.85	10	—	Petropavlovsk, Russia	<i>U.S.S.R.</i>
15.112	19.85	1	HCJB	Quito	<i>Ecuador</i>
15.114	19.84	1.5	—	Athlone	<i>Ireland</i>
15.120	19.84	100	—	Colombo	<i>Ceylon</i>
15.120	19.84	50	IBU3	Milan	<i>Italy</i>
15.120	19.84	50	—	Rome	<i>Italy</i>
15.120	19.84	7.5	—	Warsaw	<i>Poland</i>
15.120	19.84	25	HED7	Schwarzenburg	<i>Switzerland</i>
15.120	19.84	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.120	19.84	10	HVJ	Vatican City	<i>Vatican City</i>
15.124	19.83	50	CSA36	Lisbon	<i>Portugal</i>
15.125	19.83	—	—	Trieste (B.F.)	<i>Trieste</i>
15.130	19.83	100	KRHK	Honolulu	<i>Hawaii</i>
15.130	19.83	20	VUD11	Delhi	<i>India</i>
15.130	19.83	100	—	Tangier	<i>Tangier</i>
15.130	19.83	100	KGEI2	Belmont, Cal.	<i>U.S.A.</i>
15.130	19.83	50	WRCA6	Bound Brook, N.J.	<i>U.S.A.</i>
15.130	19.83	100	KCBR5	Delano, Cal.	<i>U.S.A.</i>
15.130	19.83	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.135	19.82	7	PRB23	Sao Paulo	<i>Brazil</i>
15.140	19.82	—	GSF	Overseas Service*	<i>G. Britain</i>
15.140	19.82	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.145	19.81	20	ZYK2	Recife	<i>Brazil</i>
15.148	19.81	50	YDC	Djakarta, Java	<i>Indonesia</i>
15.150	19.80	1	CE1515	Santiago	<i>Chile</i>
15.150	19.80	10	OAX4R	Lima	<i>Peru</i>
15.150	19.80	100	—	Tangier	<i>Tangier</i>
15.150	19.80	50	KRCA3	Dixon, Cal.	<i>U.S.A.</i>

Mc/s	Metres	kW	Call	Station and Country	
15.155	19.80	25	ZYB9	Sao Paulo	Brazil
15.155	19.80	100	—	Horby	Sweden
15.155	19.80	100	—	Munich	W. Germany
15.160	19.79	100	VLB15	Shepparton, Vic.	Australia
15.160	19.79	1	VPD2	Suva	Fiji Is.
15.160	19.79	100	VUD7	Delhi	India
15.160	19.79	100	TAU	Ankara	Turkey
15.160	19.79	100	—	Munich	W. Germany
15.165	19.78	5	OQ2AA	Leopoldville	Belg. Congo
15.165	19.78	10	ZYN7	Fortaleza	Brazil
15.165	19.78	50	OZF8	Copenhagen	Denmark
15.165	19.78	200	WLWO3	Cincinnati, Ohio	U.S.A.
15.170	19.78	10	—	Peking	China
15.170	19.78	10	TGWA	Guatemala City	Guatemala
15.170	19.78	20	VUD10	Delhi	India
15.170	19.78	10	LKV	Fredrikstad	Norway
15.170	19.78	—	—	Moscow, Russia	U.S.S.R.
15.175	19.77	10	LLM	Fredrikstad	Norway
15.175	19.77	100	—	Tangier	Tangier
15.180	19.76	50	OZF8	Copenhagen	Denmark
15.180	19.76	—	GSO	Overseas Service*	G. Britain
15.180	19.76	—	—	Moscow, Russia	U.S.S.R.
15.185	19.76	5	PRK9	Belo Horizonte	Brazil
15.190	19.75	50	CKCX	Sackville, N.B.	Canada
15.190	19.75	7.5	CBFZ	Vercheres, Quebec	Canada
15.190	19.75	100	OIX4	Pori	Finland
15.190	19.75	100	VUD5	Delhi	India
15.190	19.75	50	WRCA	Bound Brook, N.J.	U.S.A.
15.190	19.75	200	WLWO7	Cincinnati, Ohio	U.S.A.
15.195	19.74	100	TAQ	Ankara	Turkey
15.200	19.74	10	VLG15	Lyndhurst, Vic.	Australia
15.200	19.74	100	VLA15	Shepparton, Vic.	Australia
15.200	19.74	50	VLC15	Shepparton, Vic.	Australia
15.200	19.74	50	WRUL2	Boston, Mass.	U.S.A.
15.200	19.74	200	WLWO7	Cincinnati, Ohio	U.S.A.
15.205	19.73	10	XESC	Puebla	Mexico
15.210	19.72	10	VLG15	Lyndhurst, Vic.	Australia
15.210	19.72	50	VLC15	Shepparton, Vic.	Australia
15.210	19.72	—	GWU	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country	
15.210	19.72	5	VUD3	Delhi	India
15.210	19.72	50	—	Tangier	Tangier
15.210	19.72	50	WBOS	Boston, Mass.	U.S.A.
15.210	19.72	50	WRCA6	Bound Brook, N.J.	U.S.A.
15.210	19.72	50	KRCA2	Dixon, Cal.	U.S.A.
15.210	19.72	—	—	Moscow, Russia	U.S.S.R.
15.210	19.72	100	—	Munich	W. Germany
15.220	19.71	50	VLC15	Shepparton, Vic.	Australia
15.220	19.71	50	CHTA	Sackville, N.B.	Canada
15.220	19.71	40	PCJ2	Huizen	Netherlands
15.220	19.71	7.5	ZL10	Wellington	New Zealand
15.220	19.71	200	WLWO6	Cincinnati, Ohio	U.S.A.
15.220	19.71	—	—	Moscow, Russia	U.S.S.R.
15.225	19.70	7.5	JBD3	Osaka	Japan
15.227	19.70	5	—	Johannesburg	S. Africa
15.230	19.70	10	VLG15	Lyndhurst, Vic.	Australia
15.230	19.70	10	VLH15	Lyndhurst, Vic.	Australia
15.230	19.70	100	VLA15	Shepparton, Vic.	Australia
15.230	19.70	100	—	Colombo	Ceylon
15.230	19.70	—	GWD	Overseas Service*	G. Britain
15.230	19.70	50	WRUL3	Boston, Mass.	U.S.A.
15.230	19.70	50	WDS1	Brentwood, N.Y.	U.S.A.
15.230	19.70	—	—	Moscow, Russia	U.S.S.R.
15.230	19.70	10	—	Yakutsk, Siberia	U.S.S.R.
15.235	19.69	10	BED3	Taipei	Formosa
15.235	19.69	5	JOA5	Tokio	Japan
15.235	19.69	100	—	Tangier	Tangier
15.240	19.69	100	—	Allouis	France
15.240	19.69	100	—	Horby	Sweden
15.240	19.69	75	WLWO1	Cincinnati, Ohio	U.S.A.
15.240	19.69	50	KRCA2	Dixon, Cal.	U.S.A.
15.240	19.69	10	YUF	Belgrade	Yugoslavia
15.245	19.68	50	—	Manila, Luzon	Philippines
15.250	19.67	100	KRHO	Honolulu	Hawaii
15.250	19.67	50	—	Manila, Luzon	Philippines
15.250	19.67	50	—	Tangier	Tangier
15.250	19.67	75	WLWO1	Cincinnati, Ohio	U.S.A.
15.250	19.67	200	KCBR1	Delano, Cal.	U.S.A.
15.260	19.66	—	GSI	Overseas Service*	G. Britain

Mc/s	Metres	kW	Call	Station and Country
15.270	19.65	50	APK3	Karachi <i>Pakistan</i>
15.270	19.65	100	—	Tangier <i>Tangier</i>
15.270	19.65	50	WDS1	Brentwood, N.Y. <i>U.S.A.</i>
15.270	19.65	50	KRCA2	Dixon, Cal. <i>U.S.A.</i>
15.270	19.65	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.270	19.65	25	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
15.275	19.64	20	—	Norden <i>W. Germany</i>
15.280	19.63	7.5	ZL4	Wellington <i>New Zealand</i>
15.280	19.63	50	—	Tangier <i>Tangier</i>
15.280	19.63	50	WRCA3	Bound Brook, N.J. <i>U.S.A.</i>
15.280	19.63	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.280	19.63	100	—	Munich <i>W. Germany</i>
15.285	19.62	10	CR7BG	Lourenco Marques <i>Mozambique</i>
15.285	19.62	50	WRUL3	Boston, Mass. <i>U.S.A.</i>
15.290	19.62	6	LRU	Buenos Aires <i>Argentina</i>
15.290	19.62	20	VUD11	Delhi <i>India</i>
15.295	19.61	25	—	Allouis <i>France</i>
15.295	19.61	100	—	Tangier <i>Tangier</i>
15.300	19.61	—	GWR	Overseas Service* <i>G. Britain</i>
15.300	19.61	7.5	—	Tebrau <i>Malaya</i>
15.300	19.61	2	DZH8	Manila, Luzon <i>Philippines</i>
15.300	19.61	2.5	CXA18	Montevideo <i>Uruguay</i>
15.300	19.61	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.305	19.60	25	HER6	Schwarzenburg <i>Switzerland</i>
15.310	19.60	—	GSP	Overseas Service* <i>G. Britain</i>
15.310	19.60	100	—	Tebrau <i>Malaya</i>
15.310	19.60	20	WRUL4	Boston, Mass. <i>U.S.A.</i>
15.310	19.60	50	KCBR2	Delano, Cal. <i>U.S.A.</i>
15.310	19.60	15	—	Novosibirsk, Russia <i>U.S.S.R.</i>
15.310	19.60	25	—	Sverdlovsk, Russia <i>U.S.S.R.</i>
15.315	19.59	50	KCBR2	Delano, Cal. <i>U.S.A.</i>
15.315	19.59	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.320	19.58	10	VLG15	Lyndhurst, Vic. <i>Australia</i>
15.320	19.58	100	VLA15	Shepparton, Vic. <i>Australia</i>
15.320	19.58	50	CKCS	Sackville, N.B. <i>Canada</i>
15.320	19.58	5	OZF9	Copenhagen <i>Denmark</i>
15.320	19.58	—	—	Moscow, Russia <i>U.S.S.R.</i>
15.325	19.58	100	—	Rome <i>Italy</i>

Mc/s	Metres	kW	Call	Station and Country	
15.330	19.57	5	—	Sofia	<i>Bulgaria</i>
15.330	19.57	100	KRHO	Honolulu	<i>Hawaii</i>
15.330	19.57	7.5	—	Warsaw	<i>Poland</i>
15.330	19.57	200	WLWO6	Cincinnati, Ohio	<i>U.S.A.</i>
15.330	19.57	20	KCBR1	Delano, Cal.	<i>U.S.A.</i>
15.330	19.57	100	KRCA4	Dixon, Cal.	<i>U.S.A.</i>
15.330	19.57	100	WGEO1	Schenectady, N.Y.	<i>U.S.A.</i>
15.330	19.57	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.333	19.57	50	APK3	Karachi	<i>Pakistan</i>
15.335	19.56	100	ORU	Wavre	<i>Belgium</i>
15.340	19.56	12	FHE2	Dakar	<i>Senegal</i>
15.340	19.56	100	—	Tangier	<i>Tangier</i>
15.340	19.56	50	WRUL2	Boston, Mass.	<i>U.S.A.</i>
15.340	19.56	200	KCBR1	Delano, Cal.	<i>U.S.A.</i>
15.340	19.56	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.345	19.55	7.5	—	Athens	<i>Greece</i>
15.345	19.55	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.346	19.55	5	LRA	Buenos Aires	<i>Argentina</i>
15.350	19.54	100	—	Allouis	<i>France</i>
15.350	19.54	7.5	VUD8	Delhi	<i>India</i>
15.350	19.54	50	—	Luxembourg	<i>Luxembourg</i>
15.350	19.54	50	WRUL1	Boston, Mass.	<i>U.S.A.</i>
15.350	19.54	200	WLWO5	Cincinnati, Ohio	<i>U.S.A.</i>
15.360	19.53	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.370	19.52	25	ZYX9	Rio de Janeiro	<i>Brazil</i>
15.370	19.52	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.375	19.51	—	—	Overseas Service*	<i>G. Britain</i>
15.380	19.50	100	VUD	Delhi	<i>India</i>
15.390	19.49	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.400	19.48	100	—	Allouis	<i>France</i>
15.400	19.48	—	—	Overseas Service*	<i>G. Britain</i>
15.400	19.48	60	—	Rome	<i>Italy</i>
15.410	19.47	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.411	19.47	50	FZI	Brazzaville	<i>Fr. Eq. Africa</i>
15.411	19.47	5	PZC	Paramaribo	<i>Dutch Guiana</i>
15.420	19.45	—	—	Overseas Service*	<i>G. Britain</i>
15.430	19.44	25	—	Saigon	<i>Fr. Indo-China</i>
15.435	19.44	—	GWE	Overseas Service*	<i>G. Britain</i>
15.435	19.44	100	—	Tebrau	<i>Malaya</i>

Mc/s	Metres	kW	Call	Station and Country	
15.440	19.43	100	—	Tangier	<i>Tangier</i>
15.440	19.43	50	WRCA1	Bound Brook, N.J.	<i>U.S.A.</i>
15.440	19.43	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.450	19.42	—	GRD	Overseas Service*	<i>G. Britain</i>
15.450	19.42	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.470	19.39	—	—	Moscow, Russia	<i>U.S.S.R.</i>
15.490	19.36	100	—	Budapest	<i>Hungary</i>
15.520	19.33	100	—	Munich	<i>W. Germany</i>
15.595	19.24	50	FZI	Brazzaville	<i>Fr. Eq. Africa</i>
15.623	19.19	40	—	Madrid	<i>Spain</i>
15.640	19.18	1	HSJ4	Bangkok	<i>Siam</i>
15.820	18.96	50	WRUL	Boston, Mass.	<i>U.S.A.</i>
15.915	18.85	2.5	HSK6	Bangkok	<i>Siam</i>
17.445	17.20	25	HVJ	Vatican City	<i>Vatican City</i>
17.677	16.97	1	CR5SB	Sao Thome	<i>St. Thomas I.</i>
17.684	16.95	—	—	Nanking	<i>China</i>
17.700	16.95	—	GVP	Overseas Service*	<i>G. Britain</i>
17.705	16.95	20	VUD	Delhi	<i>India</i>
17.707	16.94	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.715	16.93	—	GRA	Overseas Service*	<i>G. Britain</i>
17.715	16.93	50	APK	Karachi	<i>Pakistan</i>
17.720	16.93	10	LRA5	Buenos Aires	<i>Argentina</i>
17.720	16.93	20	TAD	Ankara	<i>Turkey</i>
17.730	16.92	7.5	—	Colombo	<i>Ceylon</i>
17.730	16.92	—	GVQ	Overseas Service*	<i>G. Britain</i>
17.737	16.91	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.740	16.91	—	—	Overseas Service*	<i>G. Britain</i>
17.740	16.91	10	VUD	Delhi	<i>India</i>
17.750	16.90	50	APK	Karachi	<i>Pakistan</i>
17.750	16.90	80	WRUL5	Boston, Mass.	<i>U.S.A.</i>
17.755	16.90	100	—	Tebrau	<i>Malaya</i>
17.755	16.90	25	HVJ	Vatican City	<i>Vatican City</i>
17.760	16.89	5	VUD3	Delhi	<i>India</i>
17.760	16.89	50	KGE11	Belmont, Cal.	<i>U.S.A.</i>
17.760	16.89	100	KWID1	San Francisco, Cal.	<i>U.S.A.</i>
17.760	16.89	25	WGEO3	Schenectady, N.Y.	<i>U.S.A.</i>
17.765	16.89	25	—	Allouis	<i>France</i>
17.770	16.88	100	—	Rome	<i>Italy</i>
17.770	16.88	7.5	ZL5	Wellington	<i>New Zealand</i>

Mc/s	Metres	kW	Call	Station and Country	
17.770	16.88	50	APK	Karachi	<i>Pakistan</i>
17.770	16.88	100	—	Tangier	<i>Tangier</i>
17.770	16.88	50	KCBR3	Delano, Cal.	<i>U.S.A.</i>
17.775	16.88	5	PHI	Lopik	<i>Netherlands</i>
17.780	16.87	7.5	—	Manila, Luzon	<i>Philippines</i>
17.780	16.87	50	WRCA5	Bound Brook, N.J.	<i>U.S.A.</i>
17.780	16.87	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.784	16.87	25	HER7	Schwarzenburg	<i>Switzerland</i>
17.790	16.86	100	VLB17	Shepparton, Vic.	<i>Australia</i>
17.790	16.86	—	GSG	Overseas Service*	<i>G. Britain</i>
17.795	16.86	200	WLWO8	Cincinnati, Ohio	<i>U.S.A.</i>
17.797	16.85	15	OIX5	Helsinki	<i>Finland</i>
17.800	16.85	10	VLG17	Lyndhurst, Vic.	<i>Australia</i>
17.800	16.85	100	VLA17	Shepparton, Vic.	<i>Australia</i>
17.800	16.85	100	KRHO	Honolulu	<i>Hawaii</i>
17.800	16.85	60	—	Rome	<i>Italy</i>
17.800	16.85	100	—	Horby	<i>Sweden</i>
17.800	16.85	50	KGE11	Belmont, Cal.	<i>U.S.A.</i>
17.800	16.85	200	WLWO6	Cincinnati, Ohio	<i>U.S.A.</i>
17.800	16.85	50	KCBR2	Delano, Cal.	<i>U.S.A.</i>
17.800	16.85	200	KRCA1	Dixon, Cal.	<i>U.S.A.</i>
17.810	16.84	—	GSV	Overseas Service*	<i>G. Britain</i>
17.810	16.84	20	WRUL4	Boston, Mass.	<i>U.S.A.</i>
17.810	16.84	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.815	16.84	15	ZEG7	Salisbury	<i>S. Rhodesia</i>
17.815	16.84	20	—	Norden	<i>W. Germany</i>
17.820	16.84	10	VLG17	Lyndhurst, Vic.	<i>Australia</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	7.5	ZL14	Wellington	<i>New Zealand</i>
17.820	16.84	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.825	16.83	10	LLN	Fredrikstad	<i>Norway</i>
17.825	16.83	100	TAV	Ankara	<i>Turkey</i>
17.830	16.83	30	OLR6A	Podebrady	<i>Czechoslovakia</i>
17.830	16.83	20	VUD10	Delhi	<i>India</i>
17.830	16.83	50	WDSI	Brentwood, N.Y.	<i>U.S.A.</i>
17.830	16.83	200	KRCA4	Dixon, Cal.	<i>U.S.A.</i>
17.832	16.82	—	—	Moscow, Russia	<i>U.S.S.R.</i>
17.835	16.82	50	APK3	Karachi	<i>Pakistan</i>

Mc/s	Metres	kW	Call	Station and Country	
17.837	16.82	1.5	—	Athlone	Ireland
17.840	16.82	10	VLG17	Lyndhurst, Vic.	Australia
17.840	16.82	100	VLA17	Shepparton, Vic.	Australia
17.840	16.82	7	FZI	Brazzaville	Fr. Eq. Africa
17.840	16.82	50	VUD	Delhi	India
17.840	16.82	200	WLWO6	Cincinnati, Ohio	U.S.A.
17.840	16.82	25	HVJ	Vatican City	Vatican City
17.845	16.81	20	—	Norden	W. Germany
17.850	16.81	50	PRL9	Rio de Janeiro	Brazil
17.850	16.81	100	—	Allouis	France
17.850	16.81	100	VUD7	Delhi	India
17.850	16.81	50	KCBR2	Delano, Cal.	U.S.A.
17.850	16.81	200	KRCA1	Dixon, Cal.	U.S.A.
17.850	16.81	—	—	Moscow, Russia	U.S.S.R.
17.860	16.80	100	ORU	Wavre	Belgium
17.860	16.80	—	—	Overseas Service*	G. Britain
17.865	16.79	20	—	Damascus	Syria
17.870	16.79	100	—	Allouis	France
17.870	16.79	—	GRP	Overseas Service*	G. Britain
17.870	16.79	5	TGNA	Guatemala City	Guatemala
17.870	16.79	10	VUD	Delhi	India
17.870	16.79	100	—	Munich	W. Germany
17.880	16.78	—	—	Moscow, Russia	U.S.S.R.
17.890	16.77	10	HCJB	Quito	Ecuador
17.890	16.77	—	GVO	Overseas Service*	G. Britain
17.890	16.77	100	—	Tebrau	Malaya
17.892	16.77	100	—	Allouis	France
17.895	16.77	1	CR8AC	Goa	Goa
18.025	16.64	—	GRQ	Overseas Service*	G. Britain
21.460	13.98	15	ZEG7	Salisbury	S. Rhodesia
21.460	13.98	50	KRCA3	Dixon, Cal.	U.S.A.
21.470	13.97	—	GSH	Overseas Service*	G. Britain
21.480	13.97	15	PHI	Lopik	Netherlands
21.480	13.97	7.5	ZL15	Wellington	New Zealand
21.490	13.96	1.5	FZI	Brazzaville	Fr. Eq. Africa
21.490	13.96	100	—	Allouis	France
21.500	13.95	50	WRCA3	Bound Brook, N.J.	U.S.A.
21.510	13.95	100	—	Wavre	Belgium
21.510	13.95	7.5	VUD8	Delhi	India

Mc/s	Metres	kW	Call	Station and Country
21.520	13.94	100	HER8	Schwarzenburg <i>Switzerland</i>
21.520	13.94	200	WLWO3	Cincinnati, Ohio <i>U.S.A.</i>
21.530	13.93	—	GSJ	Overseas Service* <i>G. Britain</i>
21.540	13.93	100	VLB2I	Shepparton, Vic. <i>Australia</i>
21.540	13.93	100	—	Munich <i>W. Germany</i>
21.550	13.92	—	GST	Overseas Service* <i>G. Britain</i>
21.560	13.91	100	—	Rome <i>Italy</i>
21.570	13.91	50	WDSI	Brentwood, N.Y. <i>U.S.A.</i>
21.580	13.90	100	—	Horby <i>Sweden</i>
21.590	13.89	50	WGEO2	Schnectady, N.Y. <i>U.S.A.</i>
21.600	13.89	100	VLA2I	Shepparton, Vic. <i>Australia</i>
21.600	13.89	50	CKRP	Sackville, N.B. <i>Canada</i>
21.605	13.89	25	HEI9	Schwarzenburg <i>Switzerland</i>
21.610	13.88	50	WRCA1	Bound Brook, N.J. <i>U.S.A.</i>
21.620	13.87	7.5	—	Colombo <i>Ceylon</i>
21.630	13.87	50	WRCA	Bound Brook, N.J. <i>U.S.A.</i>
21.640	13.86	—	GRZ	Overseas Service* <i>G. Britain</i>
21.650	13.85	200	WLWO3	Cincinnati, Ohio <i>U.S.A.</i>
21.670	13.84	5	LLP	Oslo <i>Norway</i>
21.675	13.84	—	GVR	Overseas Service* <i>G. Britain</i>
21.680	13.84	50	VLC2I	Shepparton, Vic. <i>Australia</i>
21.680	13.84	50	OTC6	Leopoldville <i>Belg. Congo</i>
21.690	13.83	100	—	Tangier <i>Tangier</i>
21.700	13.83	10	VUD	Delhi <i>India</i>
21.710	13.82	50	CHLA	Sackville, N.B. <i>Canada</i>
21.710	13.82	—	GVS	Overseas Service* <i>G. Britain</i>
21.715	13.82	100	ORY7	Wavre <i>Belgium</i>
21.720	13.81	7.5	—	Tebrau <i>Malaya</i>
21.730	13.81	5	LLQ	Oslo <i>Norway</i>
21.730	13.81	50	WRCA3	Bound Brook, N.J. <i>U.S.A.</i>
21.740	13.80	100	—	Allouis <i>France</i>
21.740	13.80	50	KCBR2	Delano, Cal. <i>U.S.A.</i>
21.740	13.80	25	HVJ	Vatican City <i>Vatican City</i>
21.750	13.79	—	GVT	Overseas Service* <i>G. Britain</i>
25.720	11.67	—	GSR	Overseas Service* <i>G. Britain</i>
25.750	11.65	—	GSQ	Overseas Service* <i>G. Britain</i>
25.840	11.62	—	GSS	Overseas Service* <i>G. Britain</i>
26.100	11.49	—	GSK	Overseas Service* <i>G. Britain</i>

Geographical List of Short-wave Stations of the World

	Mc/s		Mc/s		Mc/s
AFRICA,		Loando	7.133	Lyndhurst,	
FRENCH EQ.		"	9.090	Vic.	9.580
Brazzaville	6.022	"	11.862	"	9.680
"	7.002	Lobito	7.180	"	11.710
"	9.440	Lubango	9.754	"	11.760
"	9.960	Mossamedes	7.230	"	11.810
"	11.972	Nova		"	11.840
"	15.411	Lisboa	9.705	"	11.850
"	15.595	Silvo Porto	7.585	"	11.880
"	17.840	ARGENTINA		"	11.900
"	21.490	Buenos		"	15.200
AFRICA,		Aires	3.430	"	15.210
FRENCH W.		"	5.986	"	15.230
(See Senegal and		"	6.062	"	15.320
Ivory Coast)		"	6.120	"	17.800
AFRICA,		"	9.320	"	17.820
PORT. E.		"	9.545	"	17.840
(See Mozambique)		"	9.660		
AFRICA,		"	9.690	Perth, W.A.	4.897
PORT. W.		"	9.760	"	9.610
(See Angola)		"	11.880	"	11.840
ALBANIA		"	11.949	Shepparton,	
Scutari	8.215	"	15.290	Vic.	7.215
Tirana	6.560	"	15.346	"	7.220
"	7.850	"	17.720	"	7.240
ALGERIA		Mendoza	6.180	"	7.280
Algiers	6.160	Rosario	6.145	"	9.540
"	7.280	Tucuman	11.840	"	9.580
"	9.570	AUSTRALIA		"	9.610
ANDORRA		Brisbane,		"	9.615
Andorra	5.990	Qld.	4.917	"	9.650
"	9.340	"	7.215	"	9.680
ANGOLA		"	7.240	"	11.710
Benguela	9.165	"	9.660	"	11.740
Dondo	4.775	Lyndhurst,		"	11.760
"	9.340	Vic.	6.150	"	11.770
Loando	5.050	"	9.540	"	11.810

	Mc/s		Mc/s		Mc/s
Australia—cont.		BALI		Recife	9.565
Shepparton,		(See Indonesia)		„	11.825
Vic.	11.840	BELGIUM		„	11.865
„	11.850	Wavre	6.000	„	15.145
„	11.880	„	6.065	Rio de	
„	11.900	„	6.085	Janeiro	4.905
„	15.160	„	9.145	„	5.045
„	15.200	„	9.705	„	6.147
„	15.210	„	9.746	„	9.290
„	15.220	„	9.766	„	9.610
„	15.230	„	11.850	„	9.720
„	15.320	„	15.335	„	9.770
„	17.790	„	17.860	„	11.720
„	17.800	„	21.510	„	11.735
„	17.840	„	21.715	„	11.950
„	21.540			„	15.370
„	21.600	BOLIVIA		„	17.850
„	21.680	La Paz	5.855	Sao Luiz	4.975
Sydney,		„	5.970	Sao Paulo	6.055
N.S.W.	6.090	„	6.150	„	6.095
„	9.500	„	9.497	„	9.505
„	9.540	BRAZIL		„	9.745
AUSTRIA		Bahia	3.345	„	11.765
(French Zone)		Bauru	3.275	„	15.135
Innsbruck	6.000	Belem	4.865	„	15.155
(U.S. Zone)		Belo		„	4.805
Salzburg	5.080	Horizonte	5.995	BULGARIA	
„	9.619	„	15.185	Sofia	6.070
(U.S.S.R. Zone)		Campinos	4.755	„	7.670
Vienna	6.155	Fortaleza	6.105	„	9.700
„	7.245	„	15.165	„	15.330
„	9.664	Goiana	4.995	BURMA	
„	11.785	Manaos	4.806	Rangoon	4.776
AZORES		„	4.895	„	6.035
Ponta		Marilia	3.255	„	9.538
Delgada	4.865	Porto		CAMEROONS	
„	11.090	Alegre	6.135	Duala	7.286
BAHAMAS		„	9.675	CANADA	
(See West Indies,		Recife	3.263	Edmonton,	
British)		„	6.015	Alberta	8.265
		„	6.085		

	Mc/s		Mc/s		Mc/s
Canada—cont.		Winnipeg,		Vina del	
Halifax,		Manitoba	6.150	Mar	11.730
N.S.	6.130		11.720	CHINA	
Montreal,		CAÑARY IS.		Chungking	6.154
Quebec	6.005	Teneriffe	7.501	Hankow	6.645
Sackville,		CAPE VERDE IS.		"	11.023
N.B.	5.970	Praia	5.855	Harbin	7.098
"	"	CEBU		Lanchow	7.327
"	"	(See Philippines)		Nanking	9.730
"	"	CELEBES		"	17.684
"	"	(See Indonesia)		Peking	6.100
"	"	CEYLON		"	8.263
"	"	Colombo	3.395	"	10.262
"	"	"	4.897	"	11.680
"	"	"	6.006	"	13.620
"	"	"	7.190	"	15.060
"	"	"	9.520	"	15.170
"	"	"	9.570	Shanghai	6.833
"	"	"	11.975	Shensi	7.496
"	"	"	15.120	"	9.030
"	"	"	15.230	Taiyuan	9.757
"	"	"	17.730	COLOMBIA	
"	"	"	17.820	Armenia	4.875
"	"	"	21.620	Barranquilla	4.785
"	"	CHILE		"	4.901
Sydney,		Antofagasta	6.010	Bogota	4.835
N.S.	6.010	"	6.450	"	4.895
Toronto,		Punta Arenas	9.197	"	4.945
Ontario	6.070	Santiago	5.750	"	4.959
Vercheres,		"	6.152	"	5.965
Quebec	6.090	"	6.190	"	6.000
"	"	"	6.220	"	6.020
"	"	"	7.660	"	6.160
"	"	"	9.593	"	6.183
"	"	"	11.743	"	9.520
"	"	"	11.950	"	9.630
"	"	"	12.003	"	11.680
"	"	"	15.150	Bucara-	
"	"	Valparaiso	9.730	manga	4.815
"	"	"	11.938	"	4.845

	Mc/s		Mc/s		Mc/s
Colombia—cont.		Havana	6.317	Copenhagen	9.520
Cali	4.767	"	6.450	"	15.165
"	6.055	"	8.825	"	15.180
"	6.135	"	9.035	"	15.320
Cartagena	4.930	"	9.235	DOMINICAN	
"	4.963	"	9.270	REPUBLIC	
Cucuta	4.871	"	9.363	Ciudad	
Manizales	5.018	"	9.435	Trujillo	5.970
"	6.110	"	9.530	"	6.043
"	6.225	"	9.640	"	6.115
Medellin	5.055	"	9.833	"	9.735
"	6.145	"	11.730	Santiago	4.840
Pereira	4.865	"	11.779	"	9.680
"	6.103	Santiago	8.955	ECUADOR	
Sutatenza	5.075	CURACAO		Guayaquil	4.650
CONGO,		Willemstad	2.460	"	6.063
BELGIAN		"	4.947	Manta	6.870
Leopoldville	6.140	CYPRUS		Quito	4.935
"	6.295	Limassol	6.120	"	5.990
"	7.215	"	6.135	"	6.050
"	9.220	"	6.170	"	9.744
"	9.380	"	6.790	"	9.969
"	9.654	"	9.650	"	11.915
"	9.768	"	11.718	"	15.112
"	11.713	CZECHO-		"	17.890
"	15.165	SLOVAKIA		EGYPT	
"	21.680	Podebrady	5.999	Cairo	6.086
COSTA RICA		"	6.025	"	7.865
San Jose	5.600	"	6.095	"	9.715
"	6.006	"	6.175	"	9.750
"	6.150	"	9.504	"	10.550
"	6.505	"	9.550	"	11.815
"	9.619	"	11.725	"	11.965
"	9.655	"	11.760	ETHIOPIA	
"	11.970	"	11.840	Addis	
San Pedro	6.165	"	11.875	Ababa	6.420
CUBA		"	17.830	"	9.620
Camaguey	8.665	DENMARK		"	15.055
Havana	6.010	Copenhagen	6.060	FALKLAND IS.	
"	6.130	"	7.260	Port Stanley 3.400	

	Mc/s		Mc/s		Mc/s
FIJI ISLANDS		Allouis	11,700	Munich	9.635
Suva	3.980	"	11.845	"	9.650
"	5.955	"	11.885	"	9.670
"	6.100	"	11.920	"	11.705
"	9.535	"	15.240	"	11.775
"	11.895	"	15.295	"	11.875
"	15.160	"	15.350	"	15.155
FINLAND		"	15.400	"	15.160
Helsinki	6.120	"	17.765	"	15.210
"	17.797	"	17.850	"	15.280
Pori	9.555	"	17.870	"	15.520
"	15.190	"	17.892	"	17.870
FORMOSA		"	21.490	"	21.540
Taipei	6.095	"	21.740	Norden	5.980
"	7.135	GAMBIA		"	6.270
"	10.076	Bathurst	9.530	"	7.290
"	11.735	GERMANY, EAST		"	9.735
"	11.915	Berlin	6.115	"	11.795
"	15.235	"	7.150	"	15.275
FRANCE		Leipzig	9.727	"	17.815
Allouis	5.950	GERMANY, W.		"	17.845
"	6.043	Baden Baden	6.320	Stuttgart	6.030
"	6.145	Berlin	6.005	GOA	
"	6.200	Frankfurt	6.190	Goa	3.425
"	7.105	Munich	6.080	"	6.025
"	7.160	"	6.105	"	9.610
"	7.220	"	6.130	"	17.895
"	7.240	"	6.140	GOLD COAST	
"	7.280	"	6.160	Accra	4.916
"	8.257	"	6.170	"	7.295
"	9.540	"	6.175	"	9.645
"	9.550	"	6.185	GT. BRITAIN	
"	9.560	"	7.115	Overseas	
"	9.570	"	7.155	Service*	2.880
"	9.642	"	7.250	"	6.010
"	9.675	"	7.295	"	6.035
"	9.680	"	9.530	"	6.040
"	9.755	"	9.540	"	6.050
"	9.766	"	9.615	"	6.060

* See note on next page.

Mc/s		Mc/s		Mc/s	
Gt. Britain—cont.		Overseas		Overseas	
Overseas	Service*	Overseas	Service*	Overseas	Service*
	6.070		9.735		15.435
”	6.090	”	9.760	”	15.450
”	6.110	”	9.770	”	17.700
”	6.125	”	9.825	”	17.715
”	6.150	”	9.915	”	17.730
”	6.165	”	11.680	”	17.740
”	6.170	”	11.700	”	17.790
”	6.180	”	11.730	”	17.810
”	6.180	”	11.750	”	17.860
”	6.195	”	11.770	”	17.870
”	7.075	”	11.790	”	17.890
”	7.120	”	11.800	”	18.025
”	7.135	”	11.820	”	21.470
”	7.150	”	11.840	”	21.530
”	7.185	”	11.860	”	21.550
”	7.200	”	11.880	”	21.640
”	7.210	”	11.890	”	21.675
”	7.230	”	11.910	”	21.710
”	7.250	”	11.930	”	21.750
”	7.260	”	11.945	”	25.720
”	7.280	”	11.955	”	25.750
”	7.325	”	11.960	”	25.840
”	9.410	”	12.040	”	26.100
”	9.510	”	12.095	”	
”	9.525	”	15.070	GREECE	
”	9.550	”	15.110	Athens	3.710
”	9.570	”	15.140	”	6.175
”	9.580	”	15.180	”	7.298
”	9.600	”	15.210	”	9.606
”	9.625	”	15.230	”	11.718
”	9.640	”	15.260	”	15.345
”	9.660	”	15.300	GUATEMALA	
”	9.675	”	15.310	Guatemala	
”	9.690	”	15.375	City	5.950
”	9.700	”	15.400	”	5.990
”	9.710	”	15.420	”	6.100
				”	6.175

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

	Mc/s		Mc/s		Mc/s
Guatemala—cont.		HONDURAS		Delhi	4.870
Guatemala		REPUBLIC		"	4.940
City	6.285	San Pedro	6.123	"	4.960
"	6.293	"	6.350	"	5.960
"	6.332	Tegucigalpa	5.875	"	5.980
"	9.668	"	5.920	"	5.990
"	9.764	"	6.025	"	6.010
"	11.850	"	6.675	"	6.085
"	15.100	HONG KONG		"	6.110
"	15.170	Victoria	9.528	"	6.190
"	17.870	HUNGARY		"	7.115
Mazatenango	8.125	Budapest	6.247	"	7.120
Quezal-		"	7.222	"	7.125
tenango	6.400	"	9.832	"	7.155
GUIANA, BRIT.		"	11.911	"	7.170
Georgetown	5.980	"	15.490	"	7.190
GUIANA, DUTCH		ICELAND		"	7.225
Paramaribo	15.411	Reykjavik	5.060	"	7.240
GUINEA,		"	9.060	"	7.255
PORTUGUESE		"	12.174	"	7.260
Bissao	5.839	INDIA		"	7.275
GUINEA,		Akashvani,		"	7.290
SPANISH		Mysore	6.058	"	9.550
St. Isabel	7.200	Bombay	4.840	"	9.565
"	9.286	"	6.150	"	9.575
"	11.600	"	7.245	"	9.590
HAITI		"	9.550	"	9.620
Port au		Calcutta	3.305	"	9.630
Prince	6.012	"	4.880	"	9.634
"	6.165	"	6.010	"	9.660
"	10.074	"	7.210	"	9.670
HAWAII		"	9.530	"	9.680
Honolulu	6.160	Delhi	3.150	"	9.705
"	6.195	"	3.365	"	9.710
"	9.650	"	3.435	"	9.720
"	11.790	"	3.495	"	9.740
"	15.130	"	3.945	"	9.765
"	15.250	"	3.970	"	11.710
"	15.330	"	4.760	"	11.760
"	17.800	"	4.860	"	11.780

	Mc/s		Mc/s		Mc/s
India—cont.		Hanoi	6.165	Macassar,	
Delhi	11.790	„	7.410	Celebes	9.554
„	11.830	Hue	7.200	Medan,	
„	11.850	Saigon	6.116	Sumatra	4.930
„	11.870	„	6.190	Padan,	
„	11.915	„	7.230	Sumatra	3.960
„	11.940	„	7.290	Palembang,	
„	11.950	„	9.650	Sumatra	4.855
„	11.965	„	9.750	Semarang,	
„	15.085	„	11.830	Java	3.945
„	15.130	„	11.920	Surabaya,	
„	15.160	„	11.948	Java	3.240
„	15.170	„	15.430	„	3.975
„	15.190			Surakarta,	
„	15.210	INDONESIA		Java	3.330
„	15.290	Ambon,		IRAQ	
„	15.350	Moluccas	4.865	Baghdad	7.062
„	15.380	Bandoeng,		„	7.092
„	17.705	Java	3.385	„	11.720
„	17.740	„	4.945	IRELAND	
„	17.760	Bandjarmasin,		Athlone	9.595
„	17.830	Celebes	3.380	„	11.740
„	17.840	Bukittinggi,		„	15.114
„	17.850	Sumatra	5.030	„	17.837
„	17.870	Den Pasar,		ISRAEL	
„	21.510	Bali	4.840	Haifa	8.170
„	21.700	Djakarta,		Tel Aviv	6.703
Madras	4.920	Java	2.240	„	6.830
„	6.085	„	4.825	„	9.007
„	7.260	„	4.908	ITALY	
„	9.590	„	6.045	Milan	5.980
Srinagar,		„	7.272	„	6.085
Kashmir	3.277	„	9.710	„	6.240
„	3.335	„	11.785	„	11.810
„	4.860	„	11.940	„	15.120
„	6.110	„	15.148	„	6.260
„	7.270	Djokjakarta,		Palermo	3.930
INDO-CHINA,		Java	5.060	Rome	6.010
FRENCH		„	7.098	„	7.110
Dalat	7.265	Macassar,		„	7.260
		Celebes	3.230	„	

	Me/s		Me/s		Me/
Italy—cont.		Tokio	11.825	Tebrau	9.625
Rome	7.945	„	15.235	„	9.690
„	9.570	JAVA		„	11.820
„	9.630	(See Indonesia)		„	11.880
„	9.670	JORDAN		„	11.955
„	9.710	Jerusalem	6.987	„	15.300
„	9.780	KENYA		„	15.310
„	11.790	Nairobi	4.854	„	15.435
„	11.840	„	6.060	„	17.755
„	11.905	KOREA		„	17.890
„	15.120	Pusan	7.935	„	21.720
„	15.325	Seoul	3.890		
„	15.400	LEBANON		MARIANA IS.	
„	17.770	Beirut	8.030	Guam	4.590
„	17.800	LIBERIA		„	9.490
„	21.560	Monrovia	6.025	MARTINIQUE	
IVORY COAST		LIBYA		Fort de	
Abidjan	7.210	Tripoli	4.966	France	6.165
JAMAICA		LUXEMBOURG		„ „	9.695
(See West Indies, British)		Luxembourg	6.090	MAURITIUS	
		„	15.350	Port Louis	11.840
JAPAN		LUZON		„ „	15.092
Kure	6.104	(See Philippines)		MEXICO	
Osaka	4.940	MADAGASCAR		Mexico City	6.010
„	9.505	Tananarive	3.220	„ „	6.065
„	9.560	„	6.170	„ „	6.155
„	9.695	„	9.515	„ „	9.500
„	15.225	„	9.693	„ „	9.554
Tokio	4.860	MALAYA		„ „	9.610
„	4.910	Kuala		„ „	9.625
„	6.015	Lumpur	6.025	„ „	9.680
„	6.070	Singapore	4.780	„ „	11.782
„	7.180	„	6.135	„ „	11.880
„	7.258	„	7.200	„ „	11.900
„	7.285	„	9.710	Puebla	15.205
„	9.605	Tebrau	5.010		
„	9.655	„	6.110	MINDANAO	
„	9.675	„	6.175	(See Philippines)	
„	11.705	„	7.120	MOLUCCAS	
„	11.800	„	7.260	(See Indonesia)	

	Mc/s	Port	Mc/s		Mc/s
MONACO				Fredrikstad	17.825
Monte Carlo	6.037	Moresby	7.280	Oslo	7.240
" "	7.350	" "	9.520	"	21.670
" "	9.785	NEW ZEALAND		"	21.730
MOROCCO,		Wellington	6.080	Tromso	6.130
FRENCH		"	6.130	"	7.210
Rabat	6.006	"	7.220	"	9.550
"	7.210	"	7.290		
"	11.940	"	9.520	PAKISTAN	
MOROCCO,		"	9.540	Dacca	4.805
SPANISH		"	9.620	"	7.095
Tetuan	6.071	"	11.780	"	7.147
MOZAMBIQUE		"	11.810	"	9.615
Lourenco		"	15.220	"	11.875
Marques	3.490	"	15.280	"	
" "	4.873	"	17.770	Karachi	3.442
" "	4.927	"	17.820	"	5.000
" "	6.135	"	21.480	"	5.980
" "	9.814	NICARAGUA		"	6.035
" "	11.743	Granada	7.849	"	6.235
" "	11.760	Leon	5.935	"	7.008
" "	11.954	Managua	6.760	"	7.260
" "	15.285	"	6.830	"	9.483
NEPAL		NIGERIA		"	9.630
Katmandu	7.096	Kaduna	4.733	"	9.645
NETHERLANDS		"	7.165	"	9.758
Huizen	9.590	Lagos	4.960	"	11.570
"	15.220	"	4.973	"	11.621
Lopik	6.020	"	6.101	"	11.650
"	11.730	"	7.253	"	11.675
"	17.775	"	9.653	"	11.725
"	21.480	NORWAY		"	11.770
NEW		Fredrikstad	6.185	"	11.770
CALEDONIA		"	9.610	"	11.810
Noumea	6.035	"	9.635	"	11.845
NEW GUINEA,		"	9.645	"	11.885
BRITISH		"	11.735	"	15.270
Port		"	11.852	"	15.333
Moresby	6.130	"	15.170	"	17.715
		"	15.175	"	17.750
				"	17.770
				"	17.835

	Mc/s		Mc/s		Mc/s
PANAMA		Lima	15.105	Warsaw	7.155
Colon	6.005	"	15.150	"	7.175
"	9.505	PHILIPPINES		"	7.205
Panama		Cebu	6.100	"	9.530
City	5.995	"	6.140	"	9.555
"	6.060	Manila,		"	9.570
"	9.607	Luzon	3.325	"	9.585
"	11.695	"	5.990	"	9.600
"	11.810	"	5.998	"	9.635
PAPUA		"	6.030	"	11.740
(See New Guinea,		"	6.060	"	11.798
British)		"	6.080	"	11.812
PARAGUAY		"	6.125	"	11.845
Ascuncion	6.156	"	6.167	"	15.120
"	6.275	"	9.501	"	15.330
"	9.735	"	9.530	PORTUGAL	
"	11.850	"	9.640	Lisbon	5.975
Encar-		"	9.730	"	6.154
nacion	11.950	"	11.857	"	6.360
PERSIA		"	11.890	"	6.373
Ahwaz	7.950	"	11.895	"	7.230
Isfahan	7.960	"	11.940	"	7.260
Samandaj	6.552	"	15.245	"	9.670
Shiraz	6.562	"	15.250	"	9.727
Tabriz	6.059	"	15.300	"	9.740
Teheran	4.780	"	17.780	"	11.027
"	6.155	Mindanao	3.950	"	11.760
"	8.110	San Juan,		"	11.797
"	9.660	Rizal	9.550	"	11.835
"	15.100	POLAND		"	11.962
PERU		Warsaw	5.924	"	11.995
Arequipa	6.300	"	5.975	"	12.865
Lima	5.901	"	5.995	"	15.110
"	6.010	"	6.025	"	15.124
"	6.090	"	6.115	REUNION I.	
"	6.307	"	6.140	St. Denis	4.807
"	6.525	"	6.220	"	7.200
"	9.336	"	7.105	RHODESIA, N.	
"	9.404	"	7.132	Lusaka	3.275
"	9.562	"	7.145	"	3.914

	Mc/s		Mc/s		Mc/s
Rhodesia, N.—cont.		SENEGAL		Johannes-	
Lusaka	4.825	Dakar	4.950	burg	9.680
"	7.220	"	7.210	"	9.700
RHODESIA,		"	9.560	"	9.871
SOUTHERN		"	9.711	"	11.936
Salisbury	3.320	"	11.895	"	15.227
"	6.017	"	15.340	SPAIN	
"	7.285	SIAM		Alicante	6.755
"	9.491	Bangkok	6.010	"	7.940
"	17.815	"	6.240	Cordoba	7.105
"	21.460	"	7.140	Cuenca	7.110
RUMANIA		"	11.700	Madrid	6.225
Bucharest	6.210	"	11.910	"	6.360
"	9.255	"	15.640	"	7.090
"	9.570	"	15.915	"	7.518
"	12.033	SOMALILAND,		"	9.360
ST. THOMAS I.		BRITISH		"	9.832
Sao Thome	4.807	Hargeisa	7.127	"	15.623
"	17.677	SOMALILAND,		Malaga	6.975
SALVADOR		ITALIAN		Valencia	6.980
San Miguel	6.170	Mogadishu	7.380	"	6.994
San Salvador	6.190	SOUTH AFRICA		Valladolid	7.006
"	6.265	Cape Town	5.892	SUDAN	
"	7.315	"	7.255	Khartoum	5.963
"	9.545	"	9.610	"	6.436
"	9.552	Johannesburg	3.290	"	9.870
Santa Ana	4.798	"	3.370	SUMATRA	
"	5.980	"	3.356	(See Indonesia)	
SAUDI ARABIA		"	3.450	SURINAM	
Jidda	3.960	"	4.370	(See Guiana,	
"	3.990	"	4.800	Dutch)	
"	5.976	"	4.895	SWEDEN	
"	6.101	"	4.945	Horby	6.065
"	6.176	"	6.007	"	6.095
"	7.200	"	6.096	"	7.271
"	7.245	"	7.229	"	9.535
"	9.645	"	7.275	"	9.620
"	11.750	"	7.295	"	11.705
"	11.846	"	9.523	"	11.880
"	11.950	"	9.597	"	15.155

	Mc/s		Mc/s		Mc/s
Sweden—cont.		Tangier	6.110	Tangier	15.280
Horby	15.240	"	6.120	"	15.295
"	17.800	"	6.140	"	15.340
"	21.580	"	6.145	"	15.440
SWITZERLAND		"	6.190	"	17.770
Geneva	6.675	"	6.200	"	21.690
Schwarzen- burg	6.055	"	7.160	TOBAGO	
"	6.165	"	7.170	(See West Indies,	
"	7.210	"	7.193	British)	
"	7.360	"	7.200	TRIESTE	
"	9.535	"	7.214	Trieste	15.125
"	9.545	"	7.220	TRINIDAD	
"	9.665	"	7.235	(See West Indies,	
"	11.715	"	7.240	British)	
"	11.775	"	7.270	TRIPOLITANIA	
"	11.815	"	7.280	(See Libya)	
"	11.865	"	7.289	TURKEY	
"	15.120	"	9.500	Ankara	6.000
"	15.305	"	9.550	"	7.240
"	17.784	"	9.575	"	7.285
"	21.520	"	9.595	"	9.465
"	21.605	"	9.615	"	<u>9.515</u>
SYRIA		"	9.630	"	11.760
Damascus	6.165	"	9.635	"	11.880
"	6.207	"	9.650	"	15.160
"	7.145	"	9.685	"	15.195
"	9.555	"	9.700	"	17.720
"	11.750	"	11.710	"	17.825
"	11.915	"	11.760	U.S.A.	
"	17.865	"	11.830	Belmont,	
TAHITI		"	11.835	Cal.	6.065
Papeete	6.040	"	11.870	"	6.075
"	6.135	"	11.940	"	9.670
"	6.980	"	15.130	"	11.730
TANGIER		"	15.150	"	15.105
Tangier	6.015	"	15.175	"	15.130
"	6.040	"	15.210	"	17.760
"	6.060	"	15.235	"	17.800
"	6.080	"	15.250	Boston,	
		"	15.270	Mass.	6.060

U.S.A—cont.		Mc/s			Mc/s			Mc/s
Boston,			Bound Brook,			Cincinnati,		
Mass.	6.140		N.J.	15.280		Ohio	15.350	
"	"	9.530	"	"	15.440	"	"	17.795
"	"	9.550	"	"	17.780	"	"	17.800
"	"	9.555	"	"	21.500	"	"	17.840
"	"	9.570	"	"	21.610	"	"	21.520
"	"	9.700	"	"	21.630	"	"	21.650
"	"	11.710	"	"	21.730		Delano, Cal.	6.040
"	"	11.730				"	"	6.120
"	"	11.740	Brentwood,			"	"	9.530
"	"	11.780	N.Y.	6.060		"	"	9.570
"	"	11.790	"	"	6.120	"	"	9.600
"	"	11.830	"	"	6.165	"	"	9.650
"	"	11.870	"	"	6.170	"	"	9.700
"	"	15.200	"	"	6.175	"	"	11.770
"	"	15.210	"	"	9.530	"	"	11.810
"	"	15.230	"	"	9.650	"	"	11.860
"	"	15.230	"	"	11.790	"	"	11.870
"	"	15.285	"	"	11.830	"	"	15.105
"	"	15.310	"	"	15.230	"	"	15.130
"	"	15.340	"	"	15.270	"	"	15.250
"	"	15.350	"	"	17.830	"	"	15.310
"	"	15.820	"	"	21.570	"	"	15.315
"	"	17.750				"	"	15.330
"	"	17.810	Cincinnati,			"	"	15.340
			Ohio	6.040		"	"	17.770
Bound Brook,			"	"	6.080	"	"	17.800
N.J.	6.020		"	"	6.155	"	"	17.850
"	"	6.100	"	"	9.520	"	"	21.740
"	"	6.190	"	"	9.545	"	"	
"	"	9.550	"	"	9.560	Dixon, Cal.	6.020	
"	"	9.615	"	"	9.685	"	"	6.060
"	"	9.675	"	"	9.700	"	"	6.185
"	"	9.700	"	"	11.710	"	"	9.515
"	"	11.775	"	"	15.165	"	"	9.590
"	"	11.790	"	"	15.190	"	"	9.600
"	"	11.830	"	"	15.200	"	"	9.635
"	"	11.890	"	"	15.220	"	"	11.755
"	"	15.130	"	"	15.240	"	"	11.790
"	"	15.190	"	"	15.250	"	"	11.870
"	"	[15.210	"	"	15.330	"	"	15.150

	Mc/s		Mc/s		Mc/s
U.S.A.—cont.		Khabarovsk,		Moscow,	
Dixon, Cal.	15.210	Russia	4.580	Russia	5.065
" "	15.240	" "	5.940	" "	5.455
" "	15.270	" "	6.018	" "	5.480
" "	15.330	" "	6.150	" "	5.780
" "	17.800	" "	8.820	" "	5.912
" "	17.830	" "	9.378	" "	5.919
" "	17.850	" "	11.800	" "	5.922
" "	21.460	Kharkov,		" "	5.930
San Francisco,		Ukraine	7.330	" "	5.940
Cal.	9.570	Kiev,		" "	5.947
" "	11.860	Ukraine	6.020	" "	5.955
" "	11.870	" "	7.165	" "	5.960
" "	17.760	" "	9.590	" "	5.965
Schenectady,		" "	9.670	" "	5.970
N.Y.	9.530	" "	11.785	" "	5.980
" "	11.830	Komsomolsk,		" "	5.995
" "	11.900	Siberia	6.055	" "	6.000
" "	15.330	" "	6.115	" "	6.030
" "	17.760	" "	9.565	" "	6.035
" "	21.590	" "	11.750	" "	6.040
U.S.S.R.		Leningrad,		" "	6.045
Achkhbad,		Russia	7.340	" "	6.050
Turkmenia	5.970	" "	7.650	" "	6.060
" "	6.180	" "	9.410	" "	6.070
" "	9.680	" "	9.600	" "	6.090
" "	11.678	" "	9.750	" "	6.100
Alma Ata,		Magadan,		" "	6.110
Kazak	5.080	Russia	3.970	" "	6.120
" "	5.860	" "	5.840	" "	6.125
" "	5.900	" "	6.967	" "	6.130
" "	6.000	" "	11.685	" "	6.135
" "	6.220	Minsk, Byelo-		" "	6.150
" "	9.340	russia	9.500	" "	6.155
" "	9.380	Moscow,		" "	6.160
" "	15.000	Russia	4.380	" "	6.165
Erivan,		" "	4.460	" "	6.170
Armenia	5.740	" "	4.560	" "	6.175
Frunze,		" "	4.634	" "	6.195
Kirghiz	4.050	" "	4.675	" "	6.210

U.S.S.R.—cont.		Mc/s	Moscow,		Mc/s	Moscow,		Mc/s
Moscow,			Russia			Russia		
	Russia	6.405	''	''	9.145			11.700
		6.480	''	''	9.390	''	''	11.710
		6.540	''	''	9.450	''	''	11.720
		6.852	''	''	9.470	''	''	11.725
		7.095	''	''	9.480	''	''	11.740
		7.100	''	''	9.490	''	''	11.750
		7.110	''	''	9.500	''	''	11.765
		7.115	''	''	9.515	''	''	11.780
		7.125	''	''	9.550	''	''	11.790
		7.150	''	''	9.555	''	''	11.805
		7.155	''	''	9.565	''	''	11.810
		7.165	''	''	9.580	''	''	11.815
		7.177	''	''	9.610	''	''	11.820
		7.180	''	''	9.620	''	''	11.825
		7.190	''	''	9.630	''	''	11.830
		7.200	''	''	9.640	''	''	11.840
		7.210	''	''	9.650	''	''	11.850
		7.215	''	''	9.655	''	''	11.860
		7.225	''	''	9.660	''	''	11.870
		7.235	''	''	9.670	''	''	11.880
		7.245	''	''	9.680	''	''	11.885
		7.255	''	''	9.690	''	''	11.900
		7.260	''	''	9.700	''	''	11.910
		7.265	''	''	9.710	''	''	11.920
		7.280	''	''	9.720	''	''	11.930
		7.290	''	''	9.740	''	''	11.955
		7.295	''	''	9.750	''	''	11.960
		7.300	''	''	9.760	''	''	11.970
		7.310	''	''	9.765	''	''	11.980
		7.320	''	''	9.770	''	''	12.020
		7.325	''	''	9.780	''	''	12.270
		7.330	''	''	9.790	''	''	15.000
		7.340	''	''	9.800	''	''	15.040
		7.360	''	''	9.830	''	''	15.090
		7.370	''	''	9.880	''	''	15.120
		7.380	''	''	11.180	''	''	15.130
		7.400	''	''	11.630	''	''	15.140
		7.420	''	''	11.685	''	''	15.170
			''	''	11.690	''	''	15.180

U.S.S.R.—cont.		Mc/s	Sverdlovsk,		Mc/s	Vatican		Mc/s
Moscow,	Russia	15.210	Russia		15.270	City		9.568
"	"	15.220	"	"	15.310	"	"	9.642
"	"	15.230	Tashkent,		6.730	"	"	9.655
"	"	15.270	Uzbek		6.825	"	"	11.682
"	"	15.280	"	"		"	"	11.740
"	"	15.300	Tiflis,		5.040	"	"	15.095
"	"	15.315	Georgia		6.050	"	"	15.120
"	"	15.320	"	"		"	"	17.445
"	"	15.330	Ulan Bator,		5.260	"	"	17.755
"	"	15.340	Buryat		6.345	"	"	17.840
"	"	15.345	"	"		"	"	21.740
"	"	15.360	Vladivostok,		5.023	VENEZUELA		
"	"	15.370	Russia		9.480	Barcelona		3.320
"	"	15.390	"	"		"		3.469
"	"	15.410	Yakutsk,		5.980	Barquisi-		4.850
"	"	15.440	Siberia		15.230	meto		4.940
"	"	15.450	"	"		"		4.989
"	"	15.470	URUGUAY		6.055	"		9.510
"	"	17.707	Colonia		9.640	"		3.410
"	"	17.737	"		6.000	Cabimas		4.878
"	"	17.780	Montevideo		6.035	Caracas		4.890
"	"	17.810	"		6.075	"		4.923
"	"	17.820	"		6.130	"		4.972
"	"	17.832	"		6.155	"		5.030
"	"	17.850	"		6.161	"		5.047
"	"	17.880	"		6.174	"		6.170
Novosibirsk,	Russia	5.225	"		9.620	"		9.640
"	"	15.310	"		11.735	"		3.341
Petropavlovsk,	Russia	6.070	"		11.833	Carora		
"	"	9.545	"		11.896	Ciudad		
"	"	11.885	"		15.300	Bolivar		4.790
"	"	15.110	VATICAN CITY			"		4.899
Stalinabad,	Tadzhik	6.700	Vatican		5.968	Coro		4.950
"	"	7.200	City		6.030	Cumana		4.960
"	"	7.440	"		6.190	El Tigre		3.325
			"		7.280	Maracaibo		4.755
			"		9.550	"		4.802
			"			"		4.810
			"			"		9.625

	Mc/s		Mc/s		Mc/s
Venezuela—cont.		Valencia	4.781	Trinidad	9.625
Maracay	3.448	Valera	4.842	Tobago	3.262
Maturin	3.493	WEST INDIES,		YUGOSLAVIA	
Merida	3.418	BRITISH		Belgrade	6.100
Punta Fijo	4.770	Kingston,		"	6.147
San		Jamaica	3.360	"	7.203
Cristobal	3.360	" "	4.950	"	7.240
" "	4.828	Nassau,		"	9.507
San		Bahamas	6.090	"	9.612
Fernando	4.820	Port of Spain,		"	11.735
Trujillo	3.310	Trinidad	3.275	"	15.240

Standard Frequency Stations

kc/s	Metres	kW	Call	Station and Country
60	5000	10	MSF	Rugby <i>G. Britain</i>
2,500	120	0.5	MSF	Rugby <i>G. Britain</i>
2,500	120	0.7	WWV	Beltsville, Washington <i>U.S.A.</i>
5,000	60	0.5	MSF	Rugby <i>G. Britain</i>
5,000	60	8	WWV	Beltsville, Washington <i>U.S.A.</i>
5,000	60	2	WWVH	Maui <i>Hawaii</i>
5,000	60	—	JJY	Kemigawa <i>Japan</i>
10,000	30	5	MSF	Rugby <i>G. Britain</i>
10,000	30	9	WWV	Beltsville, Washington <i>U.S.A.</i>
10,000	30	2	WWVH	Maui <i>Hawaii</i>
15,000	20	9	WWV	Beltsville, Washington <i>U.S.A.</i>
15,000	20	0.5	MSF	Rugby <i>G. Britain</i>
15,000	20	1.8	WWVH	Maui <i>Hawaii</i>
20,000	15	0.5	MSF	Rugby <i>G. Britain</i>
20,000	15	8.5	WWV	Beltsville, Washington <i>U.S.A.</i>
25,000	12	0.1	WWV	Beltsville, Washington <i>U.S.A.</i>

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

B.B.C. Tuning Notes.—The 440-c/s tuning note radiated immediately before the opening of the Third Programme is the frequency adopted as the international standard of musical pitch (A above middle C). This frequency and the 1,000-c/s note preceding the opening of the Home Service and Light Programme are normally maintained to an accuracy of ± 1 part in 10^6 .

European Television Stations

In accordance with the Stockholm Plan (1952), both the sound and vision frequencies of some of the low-power stations sharing channels with high-power transmitters are slightly offset from the listed frequencies to reduce interference. Projected stations are marked (P) and temporary stations (T).

Vision			Sound			Pol'n	Station
Mc/s	kW	mod.	Mc/s	kW	mod.		
Belgium (625 and 819 lines)							
196.25		+	207.75			A.M.	H Brussels (819)
210.25		+	215.75			A.M.	H Brussels (625)
Denmark (625 lines)							
62.25	0.5	—	67.75	0.25		F.M.	H Copenhagen
France (441 and 819 lines)							
46.00	30	+	42.00	5		A.M.	V Paris (441)
185.25	10	+	174.10	2.5		A.M.	H Lille (819)
„	5	+	„	3		A.M.	H Paris (819)
Germany, East (625 lines)							
99.90		—	106.40			F.M.	Berlin
Germany, West (625 lines)							
182.25	10	—	187.75	3		F.M.	H Hamburg
„	1	—	„	0.25		F.M.	H Berlin
189.25	10	—	194.75	3		F.M.	H Langenberg
196.25	1	—	201.75	0.25		F.M.	H Hanover
„	10	—	„	3		F.M.	H Feldberg, Taunus
203.25	1	—	208.75	0.25		F.M.	H Cologne
210.25		—	215.75			F.M.	H Weinbiet, near Neustadt
G. Britain (405 lines)							
45.00	17	+	41.50	3		A.M.	V Alexandra Pal., London
„	1	+	„	0.25		A.M.	H Glencairn, Belfast (T)
51.75	45	+	48.25	12		A.M.	V Holme Moss, Manchester

Vision			Sound			Pol'n	Station
Mc/s	kW	mod.	Mc/s	kW	mod.		
Gt. Britain—cont.							
51.75	5	+	48.25	2	A.M.	V	Plymouth (P)
56.75	50	+	53.25	12	A.M.	V	Kirk o'Shotts, Scotland
„	1	+	„	0.25	A.M.	V	Brighton (T)
„	5	+	„	2	A.M.	V	Isle of Wight (P)
61.75	45	+	58.25	12	A.M.	V	Sutton Coldfield, Birmingham
„	5	+	„	2	A.M.	H	Aberdeen (P)
„	5	+	„	2	A.M.	H	Isle-of-Man (P)
„		+	„		A.M.	H	Channel Is. (P)
66.75	50	+	63.25	12	A.M.	V	Wenvoe, Cardiff
„	1	+	„	0.25	A.M.	H	Pontop Pike, Newcastle (T)
Italy (625 lines)							
62.25	5	—	67.75	2.5	F.M.	H	Monte Penice (Rome)
82.25	5	—	87.75	2.5	F.M.	H	Turin
175.25	5	—	180.75	2.5	F.M.	H	Milan
201.25	5	—	206.75	2.5	F.M.	H	Milan
Netherlands (625 lines)							
48.25	2.5	—	53.75	1	F.M.	H	Eindhoven
62.25	5	—	67.75	3	F.M.	H	Lopik
Sweden (625 lines)							
62.25	1	—	67.75	0.3			Stockholm (T)
175.25	5	—	180.75	2			Stockholm (T)
Switzerland (625 lines)							
55.25		—	60.75		F.M.		Uetliberg (Zurich)
U.S.S.R. (625 lines)							
49.75		—	56.25		F.M.		Moscow, Russia
59.25		—	65.75		F.M.		Leningrad, Russia
77.25		—	83.75		F.M.		Kiev, Ukraine

Metre-wave European Stations

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

Mc s	Metres	kW	Station
Belgium			
98.500	3.046	1	Brussels
Czechoslovakia			
89.500	3.352	—	Prague
Denmark			
41.300	7.264	0.8	Copenhagen
90.800	3.304	5	Copenhagen (Sortedams)
92.700	3.236	—	Copenhagen
93.100	3.222	0.8	Copenhagen
96.500	3.109	5	Copenhagen (Hersted Vester)
Finland			
91.900	3.264	10	Helsinki
92.200	3.254	—	Vyvaskyla
94.300	3.181	—	Turku
France			
56.500	5.309	0.25	Lyons
56.500	5.309	0.25	Paris-Romainville
69.000	4.348	5	Paris
Germany, East			
92.500	3.243	—	Berlin (D.D.R.)
94.900	3.161	—	Berlin-Friederichstadt (D.D.R.)
"	"	—	Brocken, Harz (D.D.R.)
Germany, West			
47.600	6.303	—	Berlin (R.I.A.S.)
49.500	6.070	3	Berlin (R.I.A.S.)
87.600	3.425	10	Beidenkopf (H.R.R.)
"	"	1	Berlin (B.F.)
"	"	0.25	Geislingen (S.D.R.)

Mc/s	Metres	kW	Station
87.900	3.413	3	Blauen-Schwaben (S.W.F.)
"	"	0.25	Bungsberg (N.W.D.R.)
"	"	5	Heidelberg (S.D.R.)
88.200	3.401	0.25	Munich-Freimann (B.R.)
"	"	10	Ochsenkopf (Fichtel Gebirge ^e (B.R.))
"	"	3	Raichberg (S.W.F.)
"	"	0.25	Saarbrücken (S.W.F.)
88.500	3.389	10	Feldberg, Taunus (H.R.)
"	"	3	Gelbelsee (Eichst. Alb.) (B.R.)
"	"	10	Hamburg, (N.W.D.R.)
88.800	3.378	0.25	Berlin (N.W.D.R.)
"	"	0.25	Bonn (N.W.D.R.)
"	"	3	Burgstall (Hohenbogen) (B.R.)
"	"	1	Goettingen (N.W.D.R.)
"	"	1	Muehlacker (S.D.R.)
88.850	3.376	0.25	Bad Mergentheim (S.D.R.)
89.100	3.367	3	Aalen (S.D.R.)
"	"	1	Aachen (N.W.D.R.)
"	"	3	Bremen
"	"	0.05	Mainz (S.W.F.)
"	"	0.25	Traunstein-Hochberg (B.R.)
89.400	3.356	0.25	Betzdorf (S.W.F.)
"	"	3	Flensburg (N.W.D.R.)
"	"	10	Hornisgrinde (S.W.F.)
"	"	3	Rothbuehl (B.R.)
89.600	3.348	0.25	Stuttgart (S.D.R.)
89.700	3.342	0.25	Berchtesgaden (B.R.)
"	"	0.7	Cologne (N.W.D.R.)
"	"	0.25	Hardberg (H.R.)
89.700	3.342	10	Hoher Meissner, near Kassel (H.R.)
89.900	3.337	0.25	Baden-Baden (S.W.D.R.)
90.000	3.333	3	Berlin (N.W.D.R.)
"	"	1	Coburg (B.R.)
"	"	3	Haardtkopf (S.W.F.)
"	"	3	Heide, Schleswig Holstein (N.W.D.R.)
"	"	5	Wendelstein (B.R.)

Mc/s	Metres	kW	Station
90.300	3.322	0.25	Bad Reichenhall (B.R.)
"	"	6	Weinbiet, near Neustadt (S.W.F.)
90.600	3.311	10	Grunten (Allgau), (B.R.)
90.900	3.300	1	Bamberg (B.R.)
"	"	1.5	Brunswick (N.W.D.R.)
"	"	1	Herford (B.F.)
"	"	1	Koblenz (S.W.F.)
"	"	10	Stuttgart-Degerloch (S.D.R.)
91.200	3.289	10	Oldenburg (N.W.D.R.)
"	"	3	Potzberg (S.W.F.)
"	"	1	Witthoh (S.W.F.)
"	"	0.25	Wurzburg (B.R.)
91.500	3.279	10	Brotjacklriegel (Bayr Wald) (B.R.)
"	"	0.25	Heidelberg-Konigstuhl (S.D.R.)
"	"	0.25	Nuremberg (B.R.)
"	"	0.25	Ulm-Wilhelmsburg (S.D.R.)
91.700	3.270	0.25	Hochst (A.F.)
91.800	3.268	0.25	Bremerhaven
"	"	1.5	Siegen (N.W.D.R.)
"	"	0.25	Wurzburg (H.R.)
92.100	3.257	10	Feldberg, Taunus (H.R.)
"	"	0.1	Hamburg (N.W.D.R.)
92.400	3.247	3	Lingen (N.W.D.R.)
"	"	3	Waldburg-Schwaben (S.W.F.)
92.500	3.243	—	Baden-Baden (S.W.F.)
"	"	—	Berlin (N.W.D.R.)
92.700	3.236	3	Aalen (S.D.R.)
"	"	0.1	Hochrheinsender (S.W.F.)
93.000	3.226	—	Betzdorf (S.W.F.)
"	"	10	Hanover (N.W.D.R.)
"	"	10	Hornisgrinde (S.W.F.)
"	"	10	Kreuzberg (Rhon) (B.R.)
"	"	0.25	Kreuzeck (B.R.)
"	"	0.25	Passau (B.R.)
93.300	3.215	—	Dannenberg (N.W.D.R.)
"	"	0.5	Cologne (N.W.D.R.)
"	"	10	Hamburg (N.W.D.R.)

Mc/s	Metres	kW	Station
93.600	3.205	3	Berlin (R.I.A.S.)
"	"	3	Haardtkopf (S.W.F.)
"	"	1.5	Osnabruck (N.W.D.R.)
"	"	10	Waldenburg (S.D.R.)
93.900	3.195	0.25	Heidelberg (A.F.)
93.900	3.195	3	Moritzberg (B.R.)
"	"	3	Nordheile (N.W.D.R.)
94.200	3.185	0.25	Augsburg-Goggingen (B.R.)
"	"	1	Kiel (N.W.D.R.)
"	"	—	Pfaffenberg, near Aschaffenberg (B.R.)
94.500	3.175	3	Hohe Linie near Regensburg (B.R.)
"	"	3	Munster (N.W.D.R.)
"	"	3	Stuttgart-Degerloch (S.D.R.)
94.900	3.161	10	Feldberg, Taunus (A.F.)
"	"	10	Munich (A.F.)
95.400	3.145	—	Potzberg (S.W.F.)
95.700	3.135	1	Drachenberg (B.F.)
"	"	10	Langenberg (N.W.D.R.)
"	"	0.25	Lubeck (N.W.D.R.)
96.000	3.125	—	Linz (S.W.F.)
96.300	3.115	0.25	Hamburg (N.W.D.R.)
96.600	3.106	1.5	Buttelberg (Frankenhohe) (B.R.)
"	"	1	Herford (B.F.)
97.800	3.067	0.5	Hanover (N.W.D.R.)
"	"	3	Hohenpeissenberg (B.R.)
"	"	3	Linz (S.W.F.)
98.100	3.058	3	Huhnerberg, near Harburg (B.R.)
98.400	3.049	0.05	Monschau (N.W.D.R.)
99.000	3.030	3	Teutoburger Wald (N.W.D.R.)
99.300	3.021	10	Wolfsheim (S.W.F.)
G. Britain			
91.400	3.282	25	Wrotham, Kent
93.700*	3.203	18	Wrotham, Kent
Israel			
88.300	3.98	0.25	Jersusalem
89.300	3.360	0.25	Jerusalem

Mc/s	Metres	kW	Station
91.300	3.286	0.25	Tel Aviv
92.000	3.261	0.25	Tel Aviv
Italy			
89.900	3.337	3	Monte Penice
90.900	3.300	0.05	Bologna
91.700	3.272	3	Monte Penice
93.700	3.202	3	Milan
93.900	3.195	3	Florence
94.500	3.175	1	Naples
94.900	3.161	3	Genoa
		0.05	Venice
95.900	3.128	3	Turin
96.900	3.096	3	Genoa
98.900	3.033	3	Rome
		3	Turin
99.900	3.003	3	Milan
Netherlands			
93.500	3.210	1	Goes
94.350	3.180	3	Scheveningen
Sweden			
41.620	7.200	0.75	Stockholm
92.000	3.261	1	Stockholm
Switzerland			
93.000*	3.226	0.75	Berne
94.800	3.049	2	St. Anton
Trieste			
92.900	3.229	0.05	Trieste
U.S.S.R.			
45.800	6.550	—	Leningrad, Russia
46.500	6.452	—	Moscow, Russia

The initials in parenthesis after the station indicate the operating authority ; B.R., Bayerischer Rundfunk ; D.D.R., Deutscher Demokratischer Rundfunk ; H.R., Hessischer Rundfunk ; N.W.D.R., Nordwest Deutscher Rundfunk ; R.I.A.S., Radio in Amerikanischer Sektor ; S.D.R., Sudddeutscher Rundfunk ; S.W.F., Sudwestfunk.

International Allocation of Call Signs

The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA-AIZ	U.S.A.	HUA-HUZ	Salvador
AMA-AOZ	Spain	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-JYZ	Jordan
CLA-CMZ	Cuba	JZA-JZZ	Neth. New Guinea
CNA-CNZ	Morocco	KAA-KZZ	U.S.A.
COA-COZ	Cuba	LAA-LNZ	Norway
CPA-CPZ	Bolivia	LOA-LWZ	Argentina
CQA-CRZ	Portuguese Colonies	LXA-LXZ	Luxembourg
CSA-CUZ	Portugal	LYA-LYZ	Lithuania
CVA-CXZ	Uruguay	LZA-LZZ	Bulgaria
CYA-CZZ	Canada	MAA-MZZ	Great Britain
DAA-DMZ	Germany	NAA-NZZ	U.S.A.
DNA-DQZ	Belgian Congo	OAA-OCZ	Peru
DRA-DTZ	Byelorussia	ODA-ODZ	Lebanon
DUA-DZZ	Philippines	OEA-OEZ	Austria
EAA-EHZ	Spain	OFA-OJZ	Finland
EIA-EJZ	Ireland	OKA-OMZ	Czechoslovakia
EKA-EKZ	U.S.S.R.	ONA-OTZ	Belgium and Colonies
ELA-ELZ	Liberia	OUA-OZZ	Denmark
EMA-EOZ	U.S.S.R.	PAA-PIZ	Netherlands
EPA-EOZ	Persia	PJA-PJZ	Curacao
ERA-ERZ	U.S.S.R.	PKA-POZ	Netherlands Indies
ESA-ESZ	Estonia	PPA-PYZ	Brazil
ETA-ETZ	Ethiopia	PZA-PZZ	Surinam
EUA-EZZ	U.S.S.R.	QAA-QZZ	(Service Abbreviations)
FAA-FZZ	France and Colonies	RAA-RZZ	U.S.S.R.
GAA-GZZ	Great Britain	SAA-SMZ	Sweden
HAA-HAZ	Hungary	SNA-SRZ	Poland
HBA-HBZ	Switzerland	SSA-SUZ	Egypt
HCA-HDZ	Ecuador	SVA-SZZ	Greece
HEA-HEZ	Switzerland	TAA-TCZ	Turkey
HFA-HFZ	Poland	TDA-TDZ	Guatemala
HGA-HGZ	Hungary	TEA-TEZ	Costa Rica
HHA-HHZ	Haiti	TFA-TFZ	Iceland
HIA-HIZ	Dominican Republic	TGA-TGZ	Guatemala
HJA-HKZ	Colombia	THA-THZ	France and Colonies
HLA-HMZ	Korea	TIA-TIZ	Costa Rica
HNA-HNZ	Iraq	TJA-TZZ	France and Colonies
HOA-HPZ	Panama	UAA-UQZ	U.S.S.R.
HOA-HRZ	Honduras Republic	URA-UTZ	Ukraine
HSA-HSZ	Siam	UUA-UZZ	U.S.S.R.
HTA-HTZ	Nicaragua	VAA-VGZ	Canada

VHA-VNZ	Australia	2AA-2ZZ	Great Britain
VOA-VOZ	Newfoundland	3AA-3AZ	Monaco
VPA-VSZ	British Colonies	3BA-3FZ	Canada
VTA-VWZ	India	3GA-3GZ	Chile
VXA-VYZ	Canada	3HA-3UZ	China
VZA-VZZ	Australia	3VA-3VZ	France and Colonies
WAA-WZZ	U.S.A.	3WA-3WZ	Viet Nam
XAA-XIZ	Mexico	3XA-3XZ	(Not Allocated)
XJA-XOZ	Canada	3YA-3YZ	Norway
XPA-XPZ	Denmark	3ZA-3ZZ	Poland
XQA-XRZ	Chile	4AA-4CZ	Mexico
XSA-XSZ	China	4DA-4IZ	Philippines
XTA-XWZ	France and Colonies	4JA-4LZ	U.S.S.R.
XXA-XXZ	Portuguese Colonies	4MA-4MZ	Venezuela
XYA-XZZ	Burma	4NA-4OZ	Yugoslavia
YAA-YAZ	Afghanistan	4PA-4SZ	British Colonies
YBA-YHZ	Netherlands Indies	4TA-4TZ	Peru
YIA-YIZ	Iraq	4UA-4UZ	United Nations
YJA-YJZ	New Hebrides	4VA-4VZ	Haiti
YKA-YKZ	Syria	4WA-4WZ	Yemen
YLA-YLZ	Latvia	4XA-4XZ	Israel
YMA-YMZ	Turkey	4YA-4YZ	International Civil Aviation Organization
YNA-YNZ	Nicaragua	4ZA-4ZZ	(Not Allocated)
YOA-VRZ	Rumania	5AA-5AZ	Libya
YSA-YSZ	Salvador	5BA-5BZ	(Not Allocated)
YTA-YUZ	Yugoslavia	5CA-5CZ	French Morocco
YVA-YYZ	Venezuela	5DA-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	9AA-9AZ	San Marino
ZNA-ZOZ	British Colonies	9BA-9MZ	(Not Allocated)
ZPA-ZPZ	Paraguay	9NA-9NZ	Nepal
ZQA-ZQZ	British Colonies	9OA-9ZZ	(Not Allocated)
ZRA-ZUZ	South Africa		
ZVA-ZZZ	Brazil		

Wavelength and Frequency Conversion

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

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

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

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

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

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



The following are obtainable from all book-sellers or direct by post from the address below. Send for the complete radio books list.

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