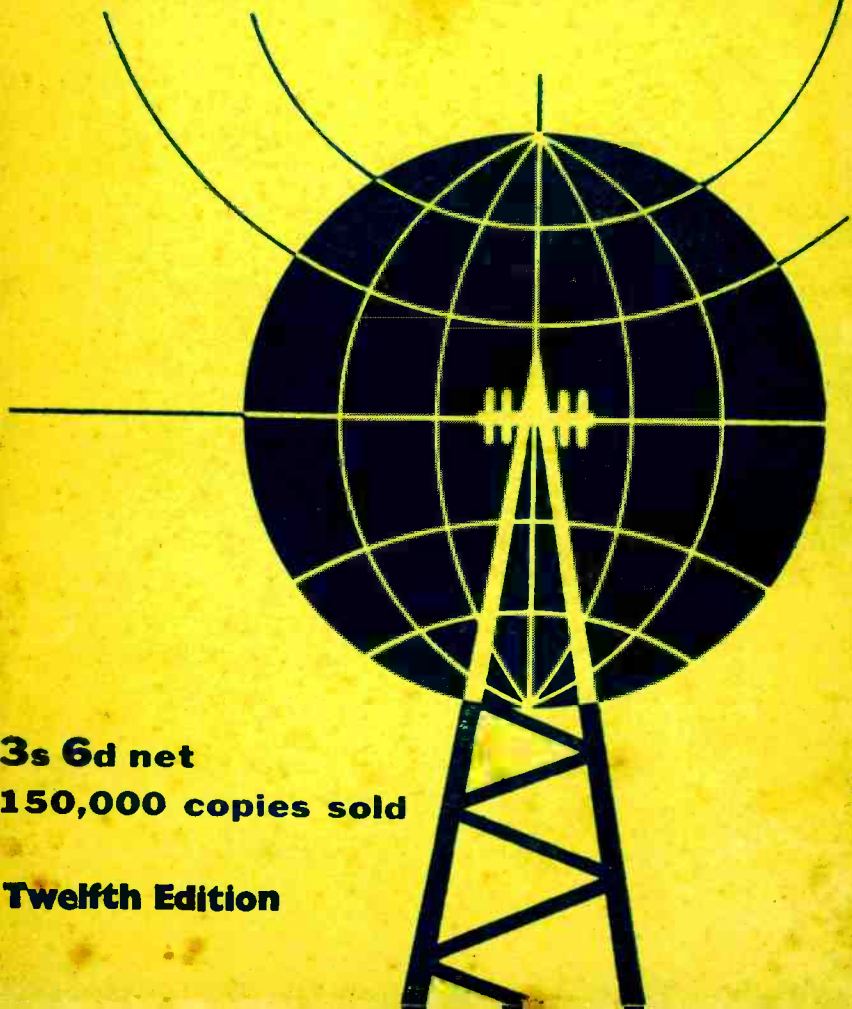


**'WIRELESS WORLD'**

**Guide to**

**BROADCASTING STATIONS**



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**Twelfth Edition**

# EDDYSTONE

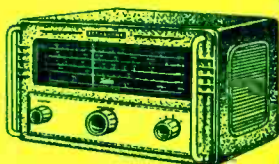
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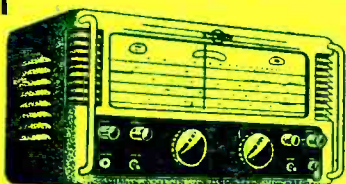
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# *Guide to Broadcasting Stations*

COMPILED BY THE STAFF OF  
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15.5 - 20.9

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33 - 100

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Twelfth Edition

720 - 2000

LONDON · ILIFFE & SONS, LTD

Chan.	kc/s	Metres	kW	Station and Country	
—	385	779	—	Kharkov, Ukraine	U.S.S.R.
—	400	750	—	Moscow, Russia	U.S.S.R.
—	400	750	—	Minsk, Byelorussia	U.S.S.R.
X1	420	714.3	10	Ostersund	Sweden
X2	433	693	10	Oulu	Finland
X3	520	576.9	10	Innsbruck	Austria
			10	Lienz	Austria
			0.05	Landeck	Austria
			1	Joensuu	Finland
			5	Cottbus	Germany (E.)
			2	Brunswick (N.D.R.)	Germany (W.)
			5	Nürnberg (B.R.)	Germany (W.)
			1	Hamar	Norway
1	529	567.1	20	Berlin	Germany (E.)
			150	Beromünster	Switzerland
2	539	556.6	135	Budapest	Hungary
3	548	547.4	100	Münich (A.F.N.)	Germany (West)
			150	Moscow, Russia	U.S.S.R.
4	557	538.6	50	Cairo	Egypt
			100	Helsinki	Finland
			20	Potsdam	Germany (East)
			1	Guarda	Portugal
			1	Timisoara	Rumania
			50	Monte Ceneri	Switzerland
5	566	530	—	8 L.P. Stations	Austria
			100	Athlone	Eire
			20	Berlin (S.F.B.)	Germany (West)
			50	Tel-Aviv	Israel
			10	Caltanissetta	Italy
6	575	521.7	120	Leipzig	Germany (East)
			100	Stuttgart (S.D.R.)	Germany (West)
			100	Riga, Latvia	U.S.S.R.
7	584	513.7	25	Klagenfurt	Austria
			10	Salzburg	Austria
			150	Vienna	Austria
			1	Paris	France
			150	Madrid	Spain
			2	Aleppo	Syria
			1	Sfax	Tunisia
8	593	505.9	60	Sofia	Bulgaria
			100	Frankfurt (H.R.)	Germany (West)
			20	Hoher Meissner (H.R.)	Germany (W.)
			15	Tangier	Morocco
			150	Sundsvall	Sweden
9	602	498.3	100	Lyons	France
			5	Karlmarxstadt	Germany (East)
			2	Damascus	Syria
—	606	495	20	Nicosia	Cyprus
10	611	491	500	Berlin-Grünau	Germany (East)
			10	Grafenwöhr (A.F.N.)	Germany (W.)
			10	Kaiserslautern (A.F.N.)	Germany (W.)
			10	Nürnberg (A.F.N.)	Germany (W.)
			5	Eidar	Iceland

Chan.	kc/s	Metres	kW	Station and Country	
(10)	(611)	(491)	140	Sebaa-Atoun	Morocco
			100	Petrozavodsk, Karelia	U.S.S.R.
			100	Sarajevo	Yugoslavia
11	620	483.9	150	Brussels	Belgium
			100	Cairo	Egypt
			†	Moalatya	Turkey
12	629	476.9	25	Dornbirn	Austria
			25	Innsbruck	Austria
			1	Lienz	Austria
			100	Vigra	Norway
			†	Tunis	Tunisia
—	635	472.4	20	Tunis	Tunisia
13	638	470.2	120	Prague	Czechoslovakia
			100	Limassol	Cyprus
			5	Seville	Spain
14	647	463.7	0.8	Lages	Azores
			150	Crowborough, Sussex (E)	U.K.
			150	Daventry, Northants. (T)	U.K.
			2	Edinburgh, Midlothian (T)	U.K.
			2	Glasgow (T)	U.K.
			2	Newcastle, North'd (T)	U.K.
			2	Redmoss, Aberdeen (T)	U.K.
			100	Simferopol, Russia	U.S.S.R.
—	652	460.1	0.8	Tel-Aviv	Israel
15	656	457.3	5	Greifswald	Germany (East)
			20	Bolzano	Italy
			80	Florence	Italy
			80	Naples	Italy
			35	Turin	Italy
			10	Venice	Italy
			150	Murmansk, Russia	U.S.S.R.
16	665	451.1	20	Bad Dürkheim(S.W.F.)	Germany(W.)
			5	Athens	Greece
			0.7	Hoefn	Iceland
			135	Lisbon	Portugal
			50	Damascus	Syria
			100	Vilna, Lithuania	U.S.S.R.
17	674	445.1	—	7 L.P. Stations	Austria
			150	Rennes	France
			10	Bodo	Norway
			—	Chernovtsy, Ukraine	U.S.S.R.
—	677	443.1	20	Jerusalem	Jordan
18	683	439.2	100	Berlin (R.I.A.S.)	Germany (West)
			40	Hof (R.I.A.S.)	Germany (West)
			15	Madrid	Spain
			150	Belgrade	Yugoslavia
19	692	433.5	—	10 L.P. Stations	Austria
			20	Nicosia	Cyprus
			20	Erfurt	Germany (East)
			2	Cromer, Norfolk (H)	U.K.
			150	Moorside Edge, Yorks. (H)	U.K.
			2	Whitehaven, Cumb. (H)	U.K.
20	701	428	100	Banska Bystrica	Czechoslovakia
			2	Bratislava	Czechoslovakia

Chan.	kc/s	Metres	kW	Station and Country	
(20)	(701)	(428)	2	Hradec Karlove	Czechoslovakia
			2	Kosice	Czechoslovakia
			—	2 L.P. Stations	Czechoslovakia
			5	Aachen (W.D.R.)	Germany (West)
			2	Herford (W.D.R.)	Germany (West)
			2	Norden (N.D.R.)	Germany (West)
			140	Sebaa-Atoun	Morocco
			20	Finnmark	Norway
			150	Istanbul	Turkey
			21	710	422.5
1	Jerusalem	Israel			
22	719	417.2	150	Stalino, Ukraine	U.S.S.R.
			—	Limassol	Cyprus
			135	Munich (R.F.E.)	Germany (West)
			50	Norte	Portugal
23	728	412.1	150	Ostersund	Sweden
			†	Damas	Syria
			25	Klagenfurt	Austria
24	737	407	220	Schwerin	Germany (E.)
			150	Athens	Greece
			40	Hof (R.I.A.S.)	Germany (West)
25	746	402.1	1.5	Akureyri	Iceland
			100	Tel Aviv	Israel
			150	Warsaw	Poland
			30	Barcelona	Spain
			120	Hilversum	Netherlands
26	755	397.3	20	Aleppo	Syria
			20	Kuopio	Finland
			2	Siegen (W.D.R.)	Germany (West)
			135	Lisbon	Portugal
27	764	392.6	50	Timisoara	Rumania
			150	Sottens	Switzerland
28	773	388.1	—	8 L.P. Stations	Austria
			100	Cairo	Egypt
29	782	383.6	—	Voronezh, Russia	U.S.S.R.
			5	Valencia	Spain
			2	Malmberget	Sweden
			150	Stockholm	Sweden
			250	Burg	Germany (East)
			100	Oporto-Miramar	Portugal
			100	Kiev, Ukraine	U.S.S.R.
			1	Vatican City	Vatican City
			50	Salonika (V.o.A.)	Greece
			100	Limoges	France
30	791	379.2	100	Munich (B.R.)	Germany (West)
			1	Wheelus Field (A.F.N.)	Libya
			0.25	Regua	Portugal
31	800	375	5	Seville	Spain
			100	Leningrad, Russia	U.S.S.R.
			10	Barcelona	Spain
			100	Burghead, Moray (H)	U.K.
			2	Dumfries (H)	U.K.
32	809	370.8	5	Redmoss, Aberdeen (H)	U.K.
			100	Westerglen, Stirling (H)	U.K.

Chan.	kc/s	Metres	kW	Station and Country	
(32)	(809)	(370.8)	135	Skoplje	Yugoslavia
33	818	366.7	300	Batra	Egypt
			10	Trieste	Italy
			1	Casablanca	Morocco
			1	Oujda	Morocco
			150	Warsaw	Poland
—	822	365	100	Andorra	Andorra
34	827	362.8	100	Sofia	Bulgaria
			1.5	Baden Baden (S.W.F.)	Germany (W.)
			40	Freiburg (S.W.F.)	Germany (W.)
			3	Kaiserslautern (S.W.F.)	Germany (W.)
			1	Koblenz (S.W.F.)	Germany (W.)
			3	Sigmaringen (S.W.F.)	Germany (W.)
			1	Trier (S.W.F.)	Germany (W.)
			20	Tetuan	Morocco
35	836	358.9	10	Ylivieska	Finland
			150	Nancy	France
			4	Beirut	Lebanon
			5	Huelva	Spain
			100	Kharkov, Ukraine	U.S.S.R.
36	845	355	150	Rome	Italy
			0.2	Helsinki	Finland
37	854	351.3	20	Berlin (R.I.A.S.)	Germany (W.)
			150	Bucharest	Rumania
			7.5	Madrid	Spain
38	863	347.6	150	Paris	France
39	872	344	150	Frankfurt (A.F.N.)	Germany (West)
			135	Budapest	Hungary
			30	Zaragoza	Spain
			150	Moscow, Russia	U.S.S.R.
40	881	340.5	100	Berlin	Germany (East)
			8	Penmon, Anglesey (H)	U.K.
			5	Towyn, Merioneth (H)	U.K.
			100	Washford, Somerset (H)	U.K.
			2	Wrexham, Denbigh. (H)	U.K.
			20	Titograd	Yugoslavia
41	890	337.1	200	Algiers	Algeria
			15	Linz	Austria
			20	Bergen	Norway
			20	Kristiansand	Norway
			20	Trondheim	Norway
			20	Ouchgorod, Ukraine	U.S.S.R.
42	899	333.7	150	Milan	Italy
—	904	331.9	100	Burg	Germany (East)
43	908	330.4	5	Cluj	Rumania
			140	Brookmans Park, London (H)	U.K.
—	912	328.9	20	Reichenbach	Germany (East)
44	917	327.2	5	Tetuan	Morocco
			0.2	Rabat	Morocco
			135	Ljubljana	Yugoslavia
—	921	325.7	2	Paphos	Cyprus
45	926	324	150	Brussels	Belgium
			2	Luxor	Egypt
—	927	923.6	2	Nis	Yugoslavia

Chan.	kc/s	Metres	kW	Station and Country	
46	935	320.9	10	Berlin (A.F.N.)	Germany (West)
			200	Tangier	Morocco
47	944	317.8	100	Lwow, Ukraine	U.S.S.R.
			100	Toulouse	France
			100	Rostov-on-Don, Russia	U.S.S.R.
48	953	314.8	—	Voronezh, Russia	U.S.S.R.
			100	Brno	Czechoslovakia
			5	Ceske Budejovice	Czechoslovakia
			15	Plzen	Czechoslovakia
49	962	311.9	20	Madrid	Spain
			100	Turku	Finland
			5	Paris	France
50	971	309	120	Tunis	Tunisia
			5	Göttingen (N.D.R.)	Germany (W.)
			100	Hamburg (N.D.R.)	Germany (W.)
			100	Langenberg (W.D.R.)	Germany (W.)
			20	Pinneberg (N.D.R.)	Germany (W.)
			20	Corunna	Spain
51	980	306.1	†	Izmir	Turkey
			20	Smolensk, Russia	U.S.S.R.
			200	Algiers	Algeria
			2.5	Trieste	Italy
52	989	303.3	150	Göteborg	Sweden
			†	Rovaniemi	Finland
			300	Berlin (R.I.A.S.)	Germany (West)
53	998	300.6	†	Beirut	Lebanon
			100	Andorra	Andorra
			0.2	Buchen (S.D.R.)	Germany (West)
			8	Heidelberg (S.D.R.)	Germany (West)
54	1,007	297.9	100	Kishinev, Moldavia	U.S.S.R.
			50	Kerkyra, Corfu	Greece
			50	Salonika	Greece
			120	Hilversum	Netherlands
			6	Malaga	Spain
55	1,016	295.3	†	Aleppo	Syria
			120	Mainz (S.W.F.)	Germany (West)
			1	Tangier	Morocco
			†	Istanbul	Turkey
—	1,019	294.4	150	Odessa, Ukraine	U.S.S.R.
			5	Madrid	Spain
56	1,025	292.7	10	Dornbirn	Austria
			100	Graz-Dobl	Austria
			100	Linz-Kronstorf	Austria
			0.5	Haifa	Israel
			1	Agadir	Morocco
—	1,029	291.5	3	San Sebastian	Spain
			1	Caceres	Spain
57	1,034	290.1	—	4 L.P. Stations (A.F.N.)	Germany (W.)
			10	Genoa	Italy
			20	Milan	Italy
			25	Naples	Italy
			5	Pescara	Italy
			5	San Remo	Italy
			25	Venice	Italy



Chan.	kc/s	Metres	kW	Station and Country	
(57)	(1,034)	(290.1)	20	Parede	Portugal
			100	Tallinn, Estonia	U.S.S.R.
—	1,038	289.1	1	<i>Puigcerda</i>	<i>Spain</i>
58	1,043	287.6	240	Dresden	Germany (East)
			5	Salonika	Greece
			20	Rabat	Morocco
59	1,052	285.2	—	2 <i>L.P. Stations</i>	<i>Austria</i>
			20	<i>Suhl</i>	<i>Germany (East)</i>
			2	Barnstaple, Devon (H)	U.K.
			120	Start Point, Devon (H)	U.K.
			2	Tripoli	Libya
			20	Bacau	Rumania
60	1,061	282.8	60	Kalundborg	Denmark
			20	Cagliari	Italy
			50	Norte	Portugal
—	1,068	280.9	—	<i>Saransk, Russia</i>	<i>U.S.S.R.</i>
61	1,070	280.4	5	<i>Valencia</i>	<i>Spain</i>
			1	<i>Touggourt</i>	<i>Algeria</i>
			20	Bordeaux	France
			20	Marseilles	France
			100	Paris	France
			20	Dniepropetrovsk, Ukraine	U.S.S.R.
62	1,079	278	20	<i>Plauen</i>	<i>Germany (East)</i>
			2	<i>Bremerhaven</i>	<i>Germany (West)</i>
			10	<i>Tangier</i>	<i>Morocco</i>
			60	Katowice	Poland
63	1,088	275.7	50	Tirana	Albania
			150	Droitwich, Worcs. (H)	U.K.
—	1,092	274.7	7.5	Norwich, Norfolk (H)	U.K.
—	1,095	274	7.5	<i>Nicosia (B.F.N.)</i>	<i>Cyprus</i>
64	1,097	273.5	—	<i>Villanueva</i>	<i>Spain</i>
—	1,105	271.5	150	Bratislava	Czechoslovakia
65	1,106	271.2	2	<i>Malaga</i>	<i>Spain</i>
			100	<i>Stuttgart (A.F.N.)</i>	<i>Germany (West)</i>
			2	<i>Zaragoza</i>	<i>Spain</i>
			100	Vilna, Lithuania	U.S.S.R.
66	1,115	269.1	1	Aosta	Italy
			40	Bari	Italy
			50	Bologna	Italy
			5	Messina	Italy
			25	Pisa	Italy
			2	Trieste	Italy
—	1,120	267.9	—	Sync. Network	Norway
67	1,124	266.9	5	<i>Vigo</i>	<i>Spain</i>
			—	8 <i>L.P. Stations</i>	<i>Austria</i>
			10	Brussels	Belgium
			10	Varna	Bulgaria
			3	<i>Barcelona</i>	<i>Spain</i>
			20	Leningrad, Russia	U.S.S.R.
—	1,128	265.9	5	<i>Tangier</i>	<i>Morocco</i>
68	1,133	264.8	2.5	<i>Bilbao</i>	<i>Spain</i>
			20	Rijeka	Yugoslavia
			135	Zagreb	Yugoslavia
69	1,142	262.7	20	Constantine	Algeria

Chan.	kc/s	Metres	kW	Station and Country	
(89)	(1,322)	(226.9)	100	Kharkov, Ukraine	U.S.S.R.
—	1,330	225.6	5	Teruel	Spain
90	1,331	225.4	20	Bari	Italy
			25	Bologna	Italy
			2	Catania	Italy
			50	Genoa	Italy
			12.5	Palermo	Italy
			25	Pescara	Italy
			2	Reggio	Italy
			80	Rome	Italy
			1	Trento	Italy
			2	Udine	Italy
—	1,336	224.5	1	Haifa	Israel
91	1,340	223.9	†	Alexandria	Egypt
			25	Nyiregyhaza	Hungary
			15	Pecs	Hungary
			25	Szombathely	Hungary
			—	2 L.P. Stations	Hungary
			150	Crowborough, Sussex (E)	U.K.
92	1,349	222.4	20	Clermont	France
			20	Grenoble	France
			20	Limoges	France
			10	Nantes	France
			20	Toulouse	France
			20	Kuldiga, Latvia	U.S.S.R.
			20	Riga, Latvia	U.S.S.R.
—	1,354	221.6	0.5	Sueca	Spain
—	1,356	221.2	5	Hospitalet	Spain
			5	Pamplona	Spain
93	1,358	220.9	†	Tirana	Albania
			20	Bremen	Germany (West)
			0.1	Elvas	Portugal
			1	Viseu	Portugal
			1	Reus	Spain
—	1,362	220.3	2	Cordoba	Spain
—	1,363	220.1	2	Alicante	Spain
94	1,367	219.5	5	Thorshavn	Faroe Is.
			—	Sync. Network	Italy
			26	Torun	Poland
			10	Oporto	Portugal
			—	4 L.P. Stations	Switzerland
—	1,373	218.5	10	Korce	Albania
			2	Alcira	Spain
			2	Denia	Spain
—	1,375	218.2	2	Antequera	Spain
95	1,376	218	150	Lille	France
			0.8	Baza	Spain
96	1,385	216.6	50	Athens	Greece
			2	Albacete	Spain
			150	Kaunas, Lithuania	U.S.S.R.
—	1,389	216	2	Santander	Spain
—	1,390	215.8	1	Jerusalem	Israel
			5	Badajoz	Spain
97	1,394	215.2	25	Graz	Austria

Chan.	kc/s	Metres	kW	Station and Country	
(97)	(1,394)	(215.2)	0.15	Angro do Heroismo	Azores
			0.25	Bitburg (A.F.N.)	Germany (West)
			†	Rhodes Island	Greece
			1	Jerusalem	Israel
			—	Almeria	Spain
			—	Sync. Network	Sweden
—	1,395	215.1	0.8	Soria	Spain
—	1,401	214.1	0.2	Orihuela	Spain
98	1,403	213.8	20	Brest	France
			10	Montpellier	France
			20	Nice	France
			20	Rouen	France
			5	Komotini	Greece
			1	Terrega	Spain
			2	Vigo	Spain
			20	Tallinn, Estonia	U.S.S.R.
—	1,410	212.8	5	Oviedo	Spain
99	1,412	212.4	0.4	Santa Cruz	Canary Is.
			3	Bad Mergentheim (S.D.R.)	Germany (West)
			0.8	Cadiz	Spain
			2	Gandia	Spain
			5	Maribor	Yugoslavia
			2	Novi Sad	Yugoslavia
			20	Pristina	Yugoslavia
			50	Split	Yugoslavia
—	1,418	211.5	1	Jaen	Spain
100	1,421	211.1	40	Algiers	Algeria
			1	Tampere	Finland
			100	Saarbrücken	Germany (W.)
			—	Alora	Spain
			0.05	Sfax	Tunisia
			5	Chernigov, Ukraine	U.S.S.R.
—	1,425	210.5	7.5	Episcopi (B.F.N.)	Cyprus
			0.2	Zamora	Spain
101	1,430	209.8	0.5	Korce	Albania
			10	Copenhagen	Denmark
			70	Skive	Denmark
			5	Baneasa	Rumania
			1	Campo de Gibraltar	Spain
			5	Mallorca	Spain
			5	Palma de Mallorca	Spain
			—	Sabadell	Spain
102	1,439	208.5	350	Luxembourg	Luxembourg
—	1,440	208.3	1	Sagunto	Spain
103	1,448	207.2	5	Ancona	Italy
			5	Catania	Italy
			5	Florence	Italy
			1	Lecce	Italy
			12.5	Palermo	Italy
			5	Sassari	Italy
			25	Turin	Italy
			—	27 L.P. Stations	Italy

Chan.	kc/s	Metres	kW	Station and Country	
(103)	(1,448)	(207.2)	1	Coimbra	Portugal
			9	Burgos	Spain
			—	Sync. Network	Sweden
104	1,457	205.9	—	3 L.P. Stations	Austria
			0.15	Caramulo	Portugal
			20	Craiova	Rumania
			10	Bartley, Hants. (H)	U.K.
			2	Bexhill, Sussex (H)	U.K.
			2	Brighton, Sussex (H)	U.K.
			20	Clevedon, Somerset (H)	U.K.
			1	Folkestone, Kent (H)	U.K.
			2	Redruth, Cornwall (H)	U.K.
—	1,463	205.1	5	Sofia	Bulgaria
105	1,466	204.6	400	Monte Carlo	Monaco
			—	Sync. Network	Norway
106	1,475	203.4	150	Vienna	Austria
			1	Huesca	Spain
			0.5	Valladolid	Spain
—	1,479	202.8	0.4	Carlet	Spain
107	1,484	202.2	—	International Common Frequency	
—	1,490	201.3	2	Manresa	Spain
108	1,493	200.9	—	8 L.P. Stations	Austria
			—	Sync. Network	France
			5	Rhodes Island	Greece
			2	Albacete	Spain
			20	Gomel, Byelorussia	U.S.S.R.
			—	Zagreb	Yugoslavia
—	1,495	201	0.02	Guarda	Portugal
—	1,500	200	0.05	Lages (A.F.N.)	Azores
			2	Segovia	Spain
			2	Tarrasa	Spain
109	1,502	199.7	0.8	Münster (W.D.R.)	Germany (W.)
			—	5 L.P. Stations (A.F.N.)	Germany (W.)
			60	Cracow	Poland
			30	Rzeszow	Poland
			2	Leon	Spain
—	1,508	198.9	2	Gijon	Spain
110	1,511	198.5	20	Brussels	Belgium
			5	Khania, Crete	Greece
			0.5	Patras	Greece
			2	Lerida	Spain
			2	Murcia	Spain
111	1,520	197.4	5	Ceske-Budejovice	Czechoslovakia
			15	Vary	Czechoslovakia
			20	Ostrava	Czechoslovakia
			20	Prague	Czechoslovakia
			0.2	Alava	Spain
			2	Gerona	Spain
112	1,529	196.2	†	Funchal	Madeira
			0.6	Vich	Spain
			—	Sync. Network	Sweden
			120	Vatican City	Vatican City
113	1,538	195.1	40	Ravensburg (S.W.F.)	Germany (W.)

Chan.	kc/s	Metres	kW	Station and Country
(113)	(1,538)	(195.1)	10	Reutlingen (S.W.F.) Germany (W.)
			†	Sync. Network Spain
114	1,546	194.1	2	<i>Elche</i> Spain
			—	Sync. Network (T) U.K.
			5	Vinnitza, Ukraine U.S.S.R.
115	1,554	193.1	60	Nice France
			†	U.S. Forces Germany (West)
			20	Baranovitchi, Byelorussia U.S.S.R.
116	1,562	192.1	0.01	<i>Zweibrücken (Canadian Forces)</i> Germany (W.)
			1	Covilha Portugal
			—	Sync. Network Sweden
			†	Sync. Network Switzerland
117	1,570	191.1	5	<i>Michelet</i> Algeria
			0.08	<i>Santa Maria Aero</i> Azores
			20	Seelow Germany (East)
			10	<i>Flensburg (N.D.R.)</i> Germany (W.)
			2	<i>Lingen (N.D.R.)</i> Germany (West)
			5	Tarragona Spain
			†	Sfax Tunisia
118	1,578	190.1	—	Sync. Network Italy
			10	Fredrikstad Norway
			2	Nordkapp Norway
			10	<i>Oporto</i> Portugal
—	1,585	189.3	1	<i>Tripoli (A.F.N.)</i> Libya
119	1,586	189.1	5	Bonn (W.D.R.) Germany (West)
			40	Hanover (N.D.R.) Germany (W.)
			5	Kiel (N.D.R.) Germany (West)
			3	Kleve (W.D.R.) Germany (West)
			40	Oldenburg (N.D.R.) Germany (W.)
			5	Osnabrück (N.D.R.) Germany (W.)
			†	Sync. Network Spain
120	1,594	188.2	—	International Common Frequency
121	1,602	187.3	20	Kirchheim-Schwaben (B.R.) Germany (West)
			20	Landau (B.R.) Germany (West)
			40	Nürnberg (B.R.) Germany (West)
			—	3 L.P. Stations Germany (W.)
			†	Sync. Network Norway
			†	Sync. Network Portugal
—	1,610	186.3	1	<i>Tortosa</i> Spain
—	1,620	185.2	0.2	<i>Moro do Ebro</i> Spain

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

	kc/s		kc/s
ALBANIA			
Korce	1,373	Judenburg	1,124
"    "	1,430	Kindberg	1,313
Tirana	1,088	Kitzbühel	1,493
ALGERIA		Klagenfurt	584
Algiers	890	"    "	728
"    "	980	Knittelfeld	1,313
"    "	1,421	Kötschach	692
Bône	1,484	Krems	1,052
Bougie	1,594	Kufstein	1,124
Colomb-Bechar	1,169	Landeck	520
Constantine	1,142	Lend	773
"    "	1,304	Leoben	692
Fort National	1,484	Lienz	520
Michelet	1,570	"    "	629
Oran	1,142	Ließen	1,313
"    "	1,304	Linz	890
Tougourt	1,070	Linz-Kronstorf	1,025
ANDORRA		Maria Pfarr	566
Andorra	822	Mariazell	773
"    "	998	Matrei	674
AUSTRIA		Mayrhofen	1,124
Admont	692	Mittersill	1,493
Amstetten	1,457	Mühlbach	566
Bad-Aussee	692	Mürzzuschlag	692
Bad-Ischl	566	Murau	692
Bad St. Leonhard	773	Neumarkt	674
Bischofshofen	674	Neunkirchen	1,052
Bleiburg	674	Oberdrauburg	773
Bludenz	1,493	Obervellach	692
Braunau-Inn	566	Radentheim	674
Bruck a.d. Mur	1,124	Radstadt	566
Dornbirn	629	Reutte	1,493
"    "	1,025	Ried-Innkreis	674
Eisenerz	1,124	Rottenmann	1,142
Eisenkappel	566	Saalfelden	1,493
Feistritz-Drau	566	St. Michael-im-Lunggau	773
Feldkirchen	566	St. Pölten	1,484
Friesach	1,313	Salzburg	584
Gloggnitz	674	"    "	773
Gmünd-Karten	692	Schrune	1,457
Graz	1,394	Schwarzach	1,493
Graz-Dobl	1,025	Spittal-Drau	773
Greifenburg	566	Szolnok	1,340
Gyor	1,340	Tamsweg	1,124
Hermagor	773	Vienna	584
Hof-Gastein	1,124	"    "	1,475
Imst	1,124	Villach	692
Innsbruck	520	Völkermarkt	1,313
"    "	629	Wiener Neustadt	1,457
		Windischgarsten	1,493
		Wolfsberg	1,313
		Wörgl	1,493

	kc/s		kc/s
<b>Austria—cont.</b>			
Zell-am-See	566	Prague	1,286
Zwettl	692	"	1,520
<b>AZORES</b>		Uherske Hradiste	272
Angra do Heroismo	1,394	Usti-Laben	1,232
Lages	647	<b>DENMARK</b>	
"	1,500	Aalborg	1,484
Santa Maria Aero	1,570	Copenhagen	1,484
<b>BELGIUM</b>		"	1,594
Brussels	620	Kalundborg	245
"	926	"	1,061
"	1,124	Skive	1,430
"	1,511	Tonder	1,484
Kortrijk	1,484	<b>EGYPT</b>	
Liege	1,484	Alexandria	1,205
<b>BULGARIA</b>		Aswan	1,178
Sofia	593	Batra	818
"	827	Cairo	557
"	1,448	"	620
"	1,463	"	773
Stara Zagora	1,223	Luxor	926
Varna	1,124	<b>EIRE</b>	
<b>CANARY ISLANDS</b>		Athlone	566
Las Palmas	1,313	Cork	1,250
Santa Cruz	1,412	Dublin	1,250
<b>CYPRUS</b>		<b>FAROE ISLANDS</b>	
Episcopi (B.F.N.)	1,425	Thorshavn	1,367
Limassol	638	<b>FINLAND</b>	
"	719	Helsinki	557
"	1,484	"	845
Nicosia	606	"	1,484
"	692	Joensuu	520
" (B.F.N.)	1,092	Kuopio	755
Paphos	921	Lahti	254
<b>CZECHOSLOVAKIA</b>		Oulu	433
Banska Bystrica	701	Pietasaari	1,484
Bratislava	701	Pori	1,484
"	1,097	Tammisaari	1,484
Brno	953	Tampere	1,421
Ceske-Budejovice	953	Turku	962
"	1,520	"	1,484
Gottwaldov	1,484	Vaasa	1,241
Hradec-Kralove	701	Ylivieska	836
Jihlava	1,484	<b>FRANCE</b>	
Karlovy-Vary	1,520	Allouis	164
Kosice	701	Annemasse	1,484
"	1,232	Bay	1,594
Liberec	701	Besancon	1,484
Olomouc	1,484	Bordeaux	1,070
Orava	1,232	"	1,205
Ostrava	1,520	Brest	1,241
Plzen	953	"	1,403
"	1,484	Caen	1,484
Prague	638	Clermont	1,349
		Dijon	1,484

Italy—cont.	kc/s		kc/s
Aosta	1,115	Sondrio	1,448
Aquila	1,484	Terni	1,484
Ascoli	1,448	Teramo	1,448
Avellino	1,484	Trento	1,331
Bari	1,115	"	1,448
"	1,331	Trieste	818
Belluno	1,448	"	980
Benevento	1,448	"	1,115
Biella	1,448	"	1,594
Bologna	1,115	Turin	656
"	1,331	"	1,448
Bolzano	656	Udine	1,331
"	1,484	Venice	656
"	1,594	"	1,034
Bressanone	1,448	Verona	1,448
Brunico	1,448	"	1,484
Cagliari	1,061	Sync. Network	1,367
Caltanissetta	566	Sync. Network	1,578
Campobasso	1,448	JORDAN	
Catania	1,331	Jerusalem	677
"	1,448	LEBANON	
Catanzaro	1,448	Beirut	836
"	1,484	LIBYA	
Como	1,448	Benghazi	1,484
Cortina	1,448	Tripoli	1,052
Cosenza	1,484	" (B.F.N.)	1,484
Cuneo	1,448	" (A.F.N.)	1,585
Florence	656	Wheelus Field (A.F.N.)	800
"	1,448	LUXEMBOURG	
Foggia	1,448	Luxembourg	233
Genoa	1,034	"	1,439
"	1,331	MADEIRA	
Gorizia	1,484	Funchal	1,484
Lecce	1,448	"	1,594
Merano	1,448	MONACO	
Messina	1,115	Monte Carlo	1,466
Milan	899	MOROCCO	
"	1,034	Agadir	1,025
Naples	656	"	1,295
"	1,034	Ben Guerir (A.F.N.)	1,594
Palermo	1,331	Casablanca	818
"	1,448	"	1,187
Perugia	1,448	Nouaceur (A.F.N.)	1,594
"	1,484	Oujda	818
Pescara	1,034	"	1,187
"	1,331	Port Lyautey (A.F.N.)	1,484
Pisa	1,115	Rabat	917
Potenza	1,448	"	1,043
"	1,484	"	1,286
Reggio Calabria	1,331	" (A.F.N.)	1,594
Rome	845	Sebaa-Atoun	611
"	1,331	"	701
Salerno	1,448	"	1,196
San Remo	1,034	"	1,594
Sassari	1,448	Sidi Slimein (A.F.N.)	
Siena	1,448		



	kc/s		kc/s
<b>Morocco—cont.</b>		Zielona Gora	1,304
Tangier	593	"	1,484
"	935	<b>PORTUGAL</b>	
"	1,016	Caramulo	1,457
"	1,079	Coimbra	1,448
"	1,128	Covilha	1,562
"	1,232	Elvas	1,358
"	1,594	Faro	1,484
Tetuan	827	Guarda	557
"	917	"	1,495
<b>NETHERLANDS</b>		Lisbon	665
Hengelo	1,594	"	755
Hilversum	746	"	1,286
"	1,007	"	1,594
Hoogezand	1,594	Norte	719
Hulsberg	1,594	"	1,061
<b>NORWAY</b>		Oporto	1,169
Bergen	890	"	1,367
Bodo	674	"	1,578
Bronnoysund	1,484	Oporto-Miramar	782
Finnmark	701	Parede	1,034
Fredrikstad	1,578	Portalegre	1,484
Glomfjord	1,484	Regua	800
Kristiansand	890	Santarem	1,322
Mosjoen	1,484	Viseu	1,358
Nordkapp	1,578	<b>RUMANIA</b>	
Oslo	218	Bacau	1,052
Rjukan	1,484	Baneasa	1,430
Stavanger	1,313	Brasov	155
Tromso	155	"	1,484
Trondheim	890		kc/s
Vigra	629	Bucharest	854
Sync. Network	1,115	Cluj	908
Sync. Network	1,466	"	1,151
<b>POLAND</b>		Craiova	1,457
Bialystok	1,594	Timisoara	557
Cracow	1,502	"	755
Gdansk	1,304	<b>SPAIN</b>	
Katowice	1,079	Alava	1,520
Kielce	1,484	Albacete	1,385
Koszalin	1,484	"	1,493
Lodz	1,484	Alcira	1,373
Lublin	1,594	Algemesi	1,287
Olsztyn	1,484	Alicante	1,363
Opole	1,484	Almeria	1,394
Poznan	1,205	Alora	1,421
Rzeszow	1,502	Antequera	1,375
Stettin	1,304	Arezzo	1,484
"	1,484	Ascoli	1,484
Torun	1,367	Avila	1,484
Warsaw	227	Badajoz	1,390
"	737	"	1,484
"	818	Badalona	1,313
Wroclaw	1,259	Barcelona	737
Zakopane	1,484	"	809

U.S.S.R.—cont.		kc/s		kc/s
Minsk, Byelorussia		281	Vilna, Lithuania	665
" "		400	" "	1,106
Moscow, Russia		151	Voronezh, Russia	773
" "		173	" "	944
" "		200	VATICAN CITY	
" "		263	Vatican City	782
" "		385	" "	1,529
" "		548	YUGOSLAVIA	
" "		872	Belgrade	683
Murmansk, Russia		656	Bitolja	1,484
Odessa, Ukraine	1,016		Dubrovnik	1,484
Ouchgorod, Ukraine	890		Koper	1,169
" "	1,322		Ljubljana	917
Petrozavodsk, Karelia	611		Maribor	1,412
Riga, Latvia	575		Nis	927
" "	1,349		Novi Sad	1,268
Rostov-on-Don, Russia	944		" "	1,412
Saransk, Russia	1,061		Osijek	1,484
Simferopol, Russia	647		Pristina	1,412
Smolensk, Russia	971		Rijeka	1,133
Stalino, Ukraine	710		Sarajevo	611
Tallinn, Estonia	1,034		Skoplje	809
" "	1,214		Split	1,412
" "	1,403		Titograd	881
Tartu, Estonia	1,214		Zagreb	1,133
Tiraspol, Moldavia	1,241		" "	1,484
			" "	1,493

## Abbreviations

A.F.N.	American Forces Network	S.F.B.	Sender Free Berlin
B.F.N.	British Forces Network	S.W.F.	Sudwestfunk
B.R.	Bayerischer Rundfunk	V.o.A.	Voice of America
H.R.	Hessischer Rundfunk	W.D.R.	Westdeutscher Rundfunk
N.D.R.	Norddeutscher Rundfunk	E, H, L or T	denote, respectively, B.B.C. transmitter used for European Service, Home Service, Light Programme or Network Three.
R.F.E.	Radio Free Europe		
R.I.A.S.	Radio im Amerikanischen Sektor		
S.D.R.	Suddeutscher Rundfunk		

## Short-wave Stations of the World

This list of short-wave broadcasting stations in order of frequency includes not only the frequencies employed at the time of the preparation of the data but also many of those announced for future use. Stations known to have a power of less than one kilowatt are not included. The abbreviations used in some instances after the name of the town indicate the organization operating the station; they are defined on page 24. At stations where there are a number of transmitters of varying power both the minimum and maximum output are given in the appropriate column.

Mc/s	Metres	kW	Call	Station and Country	
2.350	127.70	1	YDJ3	Djakakarta, Java	Indonesia
2.360	127.10	1	YVQG	Carupano	Venezuela
2.425	123.70	7.5	—	Salisbury	Rhodesia-Nyasaland Fed.
2.430	123.50	1	YDK2	Palembang, Java	Indonesia
2.440	123.00	1	H13C	La Romana	Dominican Rep.
2.440	123.00	1	YVLG	Maracay	Venezuela
2.460	122.00	1	YDB	Djakarta, Java	Indonesia
2.480	121.00	1	YDQ	Macassar, Celebes	Indonesia
2.480	121.00	1	YDL2	Padang, Sumatra	Indonesia
2.490	120.48	1	YDH	Semarang, Java	Indonesia
2.490	120.48	2.5	YVMK	Cabimas	Venezuela
2.700	112.00	1	YDS2	Menado, Celebes	Indonesia
3.175	94.49	100	OLR	Podebrady	Czechoslovakia
3.204	93.60	5	—	Ibadan	Nigeria
3.223	93.08	3.5	—	Simla	India
3.226	93.03	7.5	CR7AB	Lourenco Marques	Mozambique
3.232	92.80	1.5	—	Brazzaville	Congo Republic
3.232	92.80	5	—	Tananarive	Madagascar
3.240	92.60	1	YDR	Ambon, Moluccas	Indonesia
3.241	92.57	1	YDM6	Sibolga, Sumatra	Indonesia
3.242	92.56	1	CR7BZ	Niassa	Mozambique
3.245	92.40	0.25/10	VUC	Calcutta	India
3.245	92.40	1	YVKT	Caracas	Venezuela
3.250	92.30	10	HJKH	Sutatenza	Colombia
3.250	92.30	10	YDO	Bandjermassin, Borneo	Indonesia
3.255	92.17	2	ZFY	Georgetown	British Guiana
3.255	92.17	1	YVQL	El Tigre	Venezuela
3.260	92.02	5	YDH2	Semarang, Java	Indonesia
3.265	91.87	1	ZYK21	Recife	Brazil
3.267	91.82	1	YVOC	San Cristobal	Venezuela
3.275	91.60	1	YVMC	Maracaibo	Venezuela
3.277	91.55	1	YDD	Djakarta, Java	Indonesia
3.277	91.55	1	—	Srinagar	Kashmir
3.285	91.32	1	ZYR89	Aparecida	Brazil
3.285	91.32	1	HI7T	Cuidad Trujillo	Dominican Rep.
3.285	91.32	1	YVLE	Puerto Cabello	Venezuela
3.286	91.32	3	YDG6	Madium, Java	Indonesia
3.290	91.19	20	—	Paradys	South Africa
3.295	91.05	10	YDR3	Ambon, Moluccas	Indonesia
3.295	91.05	1	YVOG	Trujillo	Venezuela
3.297	91.00	16	HNV	Baghdad	Iraq
.300	90.91	5	—	Belize	British Honduras

Mc/s	Metres	kW	Call	Station and Country
4.795	62.58	1	HJFU	Armenia
4.795	62.58	4/50	FZI	Brazzaville
4.798	62.53	1	YSDR	Santa Ana
4.800	62.50	20	—	Lagos
4.800	62.50	1	APL	Lahore
4.800	62.50	20	—	Paradys
4.800	62.50	2	YVME	Maracaibo
4.804	62.44	1	CR5SB	Sao Thome
4.805	62.43	5	ZYS8	Manaos
4.805	62.43	5	ZGW	Kisuma
4.807	62.41	10/50	APL	Lahore
4.810	62.37	20	—	Paradys
4.810	62.37	1	YVMG	Maracaibo
4.815	62.31	1	ZYE2	Macara
4.815	62.31	1	HJBB	Cucuta
4.815	62.31	20/100	VUD	Delhi
4.820	62.24	10	—	Bhopal
4.820	62.24	20/200	VUD	Delhi
4.820	62.24	5	ZHL10	Singapore
4.820	62.24	1	—	St. Denis
4.820	62.24	1	YVNB	Coro
4.820	62.24	1	YVRC	San Fernando Apure
4.824	62.19	3	—	Abidjan
4.825	62.18	1	HJHC	Pasto
4.826	62.18	15	ZQP	Lusaka
4.830	62.10	1	—	Bangkok
4.830	62.10	1.3	YVOA	San Cristobal
4.834	62.06	2	HJKE	Bogota
4.835	62.05	4	—	Bamako
4.839	61.98	7.5	CR7BU	Lourenco Marques
4.840	61.98	10	—	Bhopal
4.840	61.98	10/100	VUB	Bombay
4.841	61.96	1.5	YVOI	Valera
4.842	61.96	1	CR6RO	Silva Porto
4.845	61.92	1	HJGF	Bucaramanga
4.850	61.86	1	YVMS	Barquisimeto
4.852	61.84	1	CR6RQ	Nova Lisboa
4.855	61.79	1	CR6RA	Luanda
4.855	61.79	1	HJFB	Neiva
4.855	61.79	10	YDK	Palembang, Sumatra
4.855	61.79	7	—	Nairobi
4.855	61.79	30	—	Monte Carlo
4.860	61.73	20/200	VUD	Delhi
4.860	61.73	1	—	Srinagar
4.860	61.73	5	—	Kuching
4.860	61.73	1	YVPA	San Felipe
4.864	61.67	1	HJFA	Pereira
4.865	61.66	2	PRC5	Belem
4.865	61.66	10	YDR	Ambon, Moluccas
4.867	61.65	1	CSA93	Punta Delgada
4.868	61.63	1	CR6RN	Luanda
4.868	61.63	7.5	CR7BV	Lourenco Marques
4.870	61.60	11	ZOI	Colombo
4.870	61.60	4	—	Cotonou
				Colombia
				Congo Republic
				Salvador
				Nigeria
				Pakistan
				South Africa
				Venezuela
				St. Thomas Island
				Brazil
				Kenya
				Pakistan
				South Africa
				Venezuela
				Brazil
				Colombia
				India
				India
				India
				Malaya
				Reunion Island
				Venezuela
				Venezuela
				Ivory Coast
				Colombia
				Rhodesia-Nyasaland Fed.
				Thailand
				Venezuela
				Colombia
				French Sudan
				Mozambique
				India
				India
				Venezuela
				Angola
				Colombia
				Venezuela
				Angola
				Angola
				Colombia
				Indonesia
				Kenya
				Monaco
				India
				Kashmir
				Sarawak
				Venezuela
				Colombia
				Brazil
				Indonesia
				Azores
				Angola
				Mozambique
				Ceylon
				Dahomey

Mc/s	Metres	kW	Call	Station and Country	
4.875	61.55	20	ZRG	Paradys	South Africa
4.876	61.54	1	—	Ciudad Trujillo	Dominican Rep.
4.880	61.48	—	VUL	Lucknow	India
4.880	61.48	10	YDG	Surakarta, Java	Indonesia
4.880	61.48	7.5	YVKF	Caracas	Venezuela
4.885	61.41	1	ZYV50	Pocos de Caldas	Brazil
4.885	61.41	10	—	Langata	Kenya
4.886	61.39	5	CR8AA	Goa	Goa
4.887	61.38	2.5	HJBG	Cucuta	Colombia
4.890	61.35	4.7	YVKB	Caracas	Venezuela
4.893	61.32	1	—	Dakar	Senegal
4.895	61.29	2.5	PRF6	Manaos	Brazil
4.895	61.29	3	HJCH	Bogota	Colombia
4.895	61.29	10	—	Lusaka	Rhodesia-Nyasaland Fed.
4.895	61.29	20	ZRG	Paradys	South Africa
4.897	61.26	2/10	VLX/W	Perth, W.A.	Australia
4.897	61.26	1	HJAG	Barranquilla	Colombia
4.900	61.22	11	—	Colombo	Ceylon
4.900	61.22	1	YVQE	Ciudad Bolivar	Venezuela
4.905	61.16	5	ZYZ20	Rio de Janeiro	Brazil
4.905	61.16	4	—	Fort Lamy	Congo Republic
4.910	61.10	4	—	Conakry	Guinea Republic
4.910	61.10	3	HCMII	Quito	Ecuador
4.910	61.10	10/50	APK	Karachi	Pakistan
4.911	61.09	10	—	Lusaka	Rhodesia-Nyasaland Fed.
4.915	61.04	1	HJEQ	Popayan	Colombia
4.915	61.04	1.3/5	ZOY	Accra	Ghana
4.920	60.98	10	VLM/Q	Brisbane, Queensland	Australia
4.920	60.98	10/100	VUM	Madras	India
4.920	60.98	5	YVKR	Caracas	Venezuela
4.925	60.94	1	ZYI21	Natal	Brazil
4.925	60.94	7.5	CR7BU	Lourenco Marques	Mozambique
4.928	60.88	7.5	YDP	Medan, Sumatra	Indonesia
4.930	60.85	1	HJAP	Cartagena	Colombia
4.930	60.85	1	HCRC1	Quito	Ecuador
4.930	60.85	5	CR8AB	Goa	Goa
4.930	60.85	7.5	—	Benghazi (B.F.N.)	Libya
4.934	60.80	10	ZGW	Langata	Kenya
4.935	60.79	1	HJLF	Ibague	Colombia
4.940	60.73	11	—	Colombo	Ceylon
4.940	60.73	10	—	Bhopal	India
4.940	60.73	10	—	Gauhati	India
4.940	60.73	5	—	Abidjan	Ivory Coast
4.940	60.73	40	—	Kiev, Ukraine	U.S.S.R.
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	20	—	Paradys	South Africa
4.950	60.61	5	—	Belize	British Honduras
4.950	60.61	7.5	—	Kuching	Sarawak
4.950	60.61	4	—	Dakar	Senegal
4.950	60.61	1	YVMM	Coro	Venezuela
4.950	60.61	1	ZQI	Kingston	Jamaica
4.954	60.56	1	CR6RZ	Luanda	Angola

Mc/s	Metres	kW	Call	Station and Country
6.065	49.46	1	YNEQ	Managua Nicaragua
6.065	49.46	100	—	Horby Sweden
6.065	49.46	15/120	—	Moscow, Russia U.S.S.R.
6.066	49.45	15/240	—	Peking China
6.070	49.42	5	—	Sofia Bulgaria
6.070	49.42	1	CFRX	Toronto, Ontario Canada
6.070	49.42	5	CE607	Santiago Chile
6.070	49.42	10/50	APK	Karachi Pakistan
6.070	49.42	2	—	Bangkok Thailand
6.070	49.42	50/100	GRR	Overseas Service* U.K.
6.073	49.41	7.5	—	Athens Greece
6.075	49.38	20	DMR27	Norden Germany (West)
6.075	49.38	1	APL	Lahore Pakistan
6.075	49.38	7.5/100	—	Warsaw Poland
6.075	49.38	15/120	—	Moscow, Russia U.S.S.R.
6.075	49.38	2.5	CXA3	Montevideo Uruguay
6.079	49.34	3	—	Stanleyville Belgian Congo
6.080	49.34	7.5	ZL7	Wellington New Zealand
6.080	49.34	10	DZ17	Manila, Luzon Philippines
6.080	49.34	1	CSB51	Lisbon Portugal
6.080	49.34	50/100	MCV	Overseas Service* U.K.
6.080	49.34	50	—	Petropavlovsk, Russia U.S.S.R.
6.082	49.33	15	OAX4Z	Lima Peru
6.085	49.30	16	ZYK2	Recife Brazil
6.085	49.30	10	—	Munich (B.R.) Germany (West)
6.085	49.30	10/100	VUM	Madras India
6.087	49.29	10	HRNQ	Tegucigalpa Honduras Rep.
6.090	49.26	50	LRV	Buenos Aires Argentina
6.090	49.26	2	VLI6	Sydney, N.S.W. Australia
6.090	49.26	5	VQA53	Jesselton British North Borneo
6.090	49.26	50	CKOB	Sackville, N.B. Canada
6.090	49.26	1	—	Pnompenh, Cambodia Indo-China
6.090	49.26	5	—	Luxembourg Luxembourg
6.090	49.26	50/100	GWM	Overseas Service* U.K.
6.090	49.26	15/120	—	Moscow, Russia U.S.S.R.
6.095	49.22	25	ZYB7	Sao Paulo Brazil
6.095	49.22	100	—	Horby Sweden
6.098	49.20	1	OAX4G	Lima Peru
6.100	49.18	5	—	Belize British Honduras
6.100	49.18	15/240	—	Peking China
6.100	49.18	8/100	—	Munich (V.o.A.) Germany (West)
6.100	49.18	10	YUA	Belgrade Yugoslavia
6.101	49.17	2	—	Jidda Saudi Arabia
6.105	49.14	5	ZYN6	Fortaleza Brazil
6.105	49.14	4.5	HJFD	Manizales Colombia
6.105	49.14	3	BEC32	Taipei Formosa
6.105	49.14	40	—	Kiev, Ukraine U.S.S.R.
6.105	49.14	1	HRXW	Comayaguela Honduras Rep.
6.110	49.10	1	—	Srinagar Kashmir
6.110	49.10	7.5/100	—	Tebrau Malaya
6.110	49.10	50/100	GSL	Overseas Service* U.K.
6.112	49.08	1	HI1Z	Ciudad Trujillo Dominican Rep.
6.113	49.08	1	—	Tangier Morocco
6.115	49.06	1	FLA6	Duala Camaroons

Mc/s	Metres	kW	Call	Station and Country
6.115	49.06	7.5	PRG9	Sao Paulo Brazil
6.115	49.06	1	TGQA	Quezaltenango Guatemala
6.115	49.06	5	—	Berlin Germany (East)
6.115	49.06	20	—	Kharbarovsk, Russia U.S.S.R.
6.116	49.05	1	—	Saigon, Vietnam Indo-China
6.120	49.02	1	LRX1	Buenos Aires Argentina
6.120	49.02	7.5	ZJM4	Limassol Cyprus
6.120	49.02	15	OIX7	Pori Finland
6.120	49.02	8/100	—	Munich (V.o.A.) Germany (West)
6.120	49.02	8/100	—	Manila, Luzon (V.o.A.) Philippines
6.120	49.02	50/200	KCBR	Delano, Cal. U.S.A.
6.120	49.02	15/120	—	Moscow, Russia U.S.S.R.
6.122	49.00	50	—	Algiers Algeria
6.124	48.99	1	HRQ	San Pedro Honduras Rep.
6.125	48.98	50/100	GWA	Overseas Service* U.K.
6.125	48.98	15/120	—	Moscow, Russia U.S.S.R.
6.127	48.97	10	—	Jidda Saudi Arabia
6.130	48.94	1	CHNX	Halifax, Nova Scotia Canada
6.130	48.94	10	—	Gauhati India
6.130	48.94	1	—	Vientiane, Laos Indo-China
6.130	48.94	10	LKJ	Fredrikstad Norway
6.130	48.94	2	VLT6	Port Moresby Papua
6.130	48.94	1	OAX7A	Cuzco Peru
6.130	48.94	50/200	—	Madrid Spain
6.130	48.94	10	CXA4	Montevideo Uruguay
6.133	48.93	15/120	—	Moscow, Russia U.S.S.R.
6.135	48.90	7.5	PRC21	Porto Alegre Brazil
6.135	48.90	1	HJED	Cali Colombia
6.135	48.90	1	4VGC	Port au Prince Haiti
6.135	48.90	7.5	ZHP	Singapore Malaya
6.135	48.90	1	FO8AA	Papeete Tahiti
6.135	48.90	—	—	Kaunas, Lithuania U.S.S.R.
6.135	48.90	—	—	Ulan Ude, Russia U.S.S.R.
6.140	48.86	2/10	VLW/X	Perth, W.A. Australia
6.140	48.86	8/100	—	Munich (V.o.A.) Germany (West)
6.140	48.86	1	YNWA	Managua Nicaragua
6.140	48.86	1	DYH2	Cebu Philippines
6.140	48.86	50/100	MCW	Overseas Service* U.K.
6.145	48.82	5	HJDE	Medellin Colombia
6.145	48.82	2.5	—	Enugu Nigeria
6.145	48.82	35/100	—	Okinawa (V.o.A.) Okinawa Island
6.145	48.82	50/200	KNBH	Dixon, Cal. U.S.A.
6.146	48.80	50/200	—	Madrid Spain
6.147	48.79	50	PRL9	Rio de Janeiro Brazil
6.150	48.78	10	VLG/H	Lyndhurst, Victoria Australia
6.150	48.78	1	CP12	La Paz Bolivia
6.150	48.78	2	CKRO	Winnipeg, Manitoba Canada
6.150	48.78	5	CE615	Valparaiso Chile
6.150	48.78	10/100	VUB	Bombay India
6.150	48.78	50/100	GRW	Overseas Service* U.K.
6.150	48.78	15/120	—	Moscow, Russia U.S.S.R.
6.150	48.78	100	YUA	Belgrade Yugoslavia
6.151	48.77	50	—	Algiers Algeria
6.152	48.76	2	TIRH	San Jose Costa Rica

Mc/s	Metres	kW	Call	Station and Country	
7.105	42.22	15/120	—	Moscow, Russia	U.S.S.R.
7.110	42.19	35	—	Colombo	Ceylon
7.110	42.19	8/100	—	Munich (V.o.A.)	Germany (West)
7.110	42.19	7.5	—	Kampala	Uganda
7.110	42.19	50/100	MCS	Overseas Service*	U.K.
7.115	42.16	50	—	Algiers	Algeria
7.115	42.16	15/120	—	Moscow, Russia	U.S.S.R.
7.118	42.15	50	—	Rangoon	Burma
7.120	42.13	20/100	VUD	Delhi	India
7.120	42.13	7.5/100	—	Tebrau	Malaya
7.120	42.13	50/100	GRM	Overseas Service*	U.K.
7.120	42.13	15/120	—	Moscow, Russia	U.S.S.R.
7.125	42.11	20/100	VUD	Delhi	India
7.125	42.11	10	—	Gauhati	India
7.125	42.11	7.5/100	—	Warsaw	Poland
7.125	42.11	15/120	—	Moscow, Russia	U.S.S.R.
7.127	42.09	5	VQ6MI	Hargeisa	British Somaliland
7.130	42.07	20/100	VUD	Delhi	India
7.130	42.07	50/100	—	Overseas Service*	U.K.
7.132	42.07	30	3AM4	Monte Carlo	Monaco
7.132	42.07	2	—	Jidda	Saudi Arabia
7.132	42.07	40	—	Kiev, Ukraine	U.S.S.R.
7.135	42.05	50	—	Algiers	Algeria
7.135	42.05	4	OEI31	Vienna	Austria
7.135	42.05	20/100	VUD	Delhi	India
7.135	42.05	50/100	GRS	Overseas Service*	U.K.
7.135	42.05	15/120	—	Moscow, Russia	U.S.S.R.
7.140	42.02	—	—	Hyderabad	India
7.140	42.02	7.5	APD	Dacca	Pakistan
7.140	42.02	15/120	—	Moscow, Russia	U.S.S.R.
7.141	42.01	50/100	—	Cairo	Egypt
7.145	41.99	20/100	VUD	Delhi	India
7.145	41.99	1	—	Vientiane, Laos	Indo-China
7.145	41.99	7.5/100	—	Warsaw	Poland
7.145	41.99	20	—	Damascus	Syria
7.145	41.99	15/120	—	Moscow, Russia	U.S.S.R.
7.150	41.96	10	—	Gauhati	India
7.150	41.96	35/100	—	Tangier (V.o.A.)	Morocco
7.150	41.96	50/100	GRT	Overseas Service*	U.K.
7.150	41.96	20	—	Khabarovsk, Russia	U.S.S.R.
7.150	41.96	40	—	Kiev, Ukraine	U.S.S.R.
7.152	41.95	1	CR6RD	Nova Lisboa	Angola
7.155	41.93	100	OLR	Podebrady	Czechoslovakia
7.155	41.93	4	FIQA	Tananarive	Madagascar
7.155	41.93	15/120	—	Moscow, Russia	U.S.S.R.
7.157	41.92	3	—	Tirana	Albania
7.160	41.90	3	OQ2AB	Elizabethville	Belgian Congo
7.160	41.90	8/100	—	Munich (V.o.A.)	Germany (West)
7.160	41.90	—	—	Berlin	Germany (East)
7.160	41.90	10	—	Bhopal	India
7.160	41.90	100	—	Alibon	France
7.160	41.90	35	—	Okinawa (V.o.A.)	Okinawa Island
7.160	41.90	5	—	Santa Isabel	Spanish Guinea
7.165	41.87	20/100	VUD	Delhi	India



Mc/s	Metres	kW	Call	Station and Country	
7.167	41.86	20	—	Dar-es-Salaam	Tanganyika
7.170	41.84	7.5	—	Kormaksar	Aden
7.170	41.84	20/100	—	Jülich	Germany (West)
7.170	41.84	2.5	—	Simla	India
7.170	41.84	1.5	—	St. Denis	Reunion Island
7.170	41.84	2.5	ZQP	Lusaka	Rhodesia-Nyasaland Fed.
7.171	41.84	4	—	Dakar	Senegal
7.172	41.83	10	ZGW	Langata	Kenya
7.175	41.81	—	—	Caltanissetta	Italy
7.175	41.81	15/120	—	Moscow, Russia	U.S.S.R.
7.180	41.78	5	VQA54	Jesselton	British North Borneo
7.180	41.78	50/100	—	Cairo	Egypt
7.180	41.78	20/100	VUD	Delhi	India
7.180	41.78	16	—	Baghdad	Iraq
7.180	41.78	2	—	Benghazi	Libya
7.184	41.76	100	HLK4	Seoul	South Korea
7.185	41.75	35/100	—	Tangier (V.o.A.)	Morocco
7.185	41.75	50/100	GRK	Overseas Service*	U.K.
7.185	41.75	15/120	—	Moscow, Russia	U.S.S.R.
7.189	41.74	2.5	4XB21	Tel Aviv	Israel
7.190	41.72	7.5	—	Colombo	Ceylon
7.190	41.72	4	—	Cotonou	Dahomey
7.192	41.71	50	4XB49	Tel Aviv	Israel
7.195	41.70	5	—	Bucharest	Rumania
7.200	41.67	15/240	—	Peking	China
7.200	41.67	20/100	VUD	Delhi	India
7.200	41.67	3	—	Amman	Jordan
7.200	41.67	7.5	ZHL10	Singapore	Malaya
7.200	41.67	50/100	GWZ	Overseas Service*	U.K.
7.200	41.67	40	—	Kiev, Ukraine	U.S.S.R.
7.200	41.67	100	—	Belgrade	Yugoslavia
7.205	41.64	20/100	DMQ	Jülich	Germany (West)
7.205	41.64	35	—	Salonika (V.o.A.)	Greece
7.205	41.64	35/100	—	Tangier (V.o.A.)	Morocco
7.208	41.62	1	—	Hue, S. Vietnam	Indo-China
7.210	41.61	15/240	—	Peking	China
7.210	41.61	0.25/10	VUC	Calcutta	India
7.210	41.61	10	LLS	Tromso	Norway
7.210	41.61	4/25	—	Dakar	Senegal
7.210	41.61	100	—	Horby	Sweden
7.210	41.61	100	HEI3	Schwarzenburg	Switzerland
7.210	41.61	50/100	GWL	Overseas Service*	U.K.
7.210	41.61	20	—	Khabarovsk, Russia	U.S.S.R.
7.214	41.59	50	—	Rabat	Morocco
7.215	41.58	5	—	Abidjan	Ivory Coast
7.215	41.58	15/120	—	Moscow, Russia	U.S.S.R.
7.218	41.56	7.5	CR7BX	Lourenco Marques	Mozambique
7.220	41.55	50/100	VLA/D	Shepparton, Victoria	Australia
7.220	41.55	15/240	—	Peking	China
7.220	41.55	100	—	Allouis	France
7.220	41.55	2	—	Benghazi (B.F.N.)	Libya
7.220	41.55	50/100	—	Overseas Service*	U.K.
7.222	41.54	100	—	Budapest	Hungary
7.225	41.52	1	APL	Lahore	Pakistan

Mc/s	Metres	kW	Call	Station and Country
7.670	39.11	5	—	Sofia Bulgaria
7.740	38.76	—	—	Hyderabad India
7.848	38.23	3	ZAA	Tirana Albania
7.925	37.85	15/120	—	Moscow, Russia U.S.S.R.
7.936	37.81	1	HLK52	Seoul South Korea
7.990	37.55	1	—	Ahwaz Persia
8.008	37.46	2	FXE	Beirut Lebanon
8.215	36.52	3	—	Scutari Albania
8.948	33.58	5/20	—	Tangier Morocco
9.009	33.31	50	4XB31	Tel Aviv Israel
9.020	33.24	15/240	—	Peking China
9.020	33.24	1	COBZ	Havana Cuba
9.065	33.10	15/240	—	Peking China
9.080	33.04	50/100	—	Cairo Egypt
9.090	33.00	15/240	—	Peking China
9.145	32.76	15/120	—	Moscow, Russia U.S.S.R.
9.170	32.72	15/240	—	Peking China
9.210	32.57	7.5	OTH	Leopoldville Belgian Congo
9.210	32.57	15/120	—	Moscow, Russia U.S.S.R.
9.250	32.43	15	—	Alma Ata, Kazak U.S.S.R.
9.255	32.41	5	—	Bucharest Rumania
9.275	32.34	10	—	Tangier Morocco
9.295	32.27	5	PRN9	Rio de Janeiro Brazil
9.338	32.13	10	WTAN	Tangier Morocco
9.340	32.12	15/240	—	Peking China
9.360	32.05	40	—	Madrid Spain
9.362	32.04	1	COBC	Havana Cuba
9.370	32.02	100	OLR	Podebrady Czechoslovakia
9.370	32.02	40	—	Madrid Spain
9.375	32.00	20	—	Khabarovsk, Russia U.S.S.R.
9.380	31.98	50	OTM2	Leopoldville Belgian Congo
9.380	31.98	15	—	Alma Ata, Kazak U.S.S.R.
9.390	31.95	15/240	—	Peking China
9.390	31.95	100	—	Madrid Spain
9.410	31.88	50/100	GRI	Overseas Service* U.K.
9.440	31.78	2.5/10	WTAN	Tangier Morocco
9.450	31.75	15/120	—	Moscow, Russia U.S.S.R.
9.455	31.73	2	OAX4W	Lima Peru
9.456	31.72	15/240	—	Peking China
9.464	31.70	100	TAP	Ankara Turkey
9.468	31.69	—	—	Urumchi China
9.470	31.68	15/120	—	Moscow, Russia U.S.S.R.
9.475	31.66	3	EFE34	Las Palmas Canary Islands
9.475	31.66	50/100	—	Cairo Egypt
9.480	31.65	15/120	—	Moscow, Russia U.S.S.R.
9.484	31.63	50	APK	Karachi Pakistan
9.485	31.63	2.5/10	WTAN	Tangier Morocco
9.490	31.61	15/120	—	Moscow, Russia U.S.S.R.
9.500	31.58	100	VLA/D	Shepparton, Victoria Australia
9.500	31.58	10	XEWW	Mexico City Mexico
9.500	31.58	35/100	—	Tangier (V.o.A.) Morocco
9.500	31.58	15/120	—	Moscow, Russia U.S.S.R.
9.502	31.58	1	CR6RF	Benguela Angola
9.502	31.58	120	—	Sofia Bulgaria

Mc/s	Metres	kW	Call	Station and Country	
9.502	31.58	1	HOLA	Colon	Panama
9.504	31.57	100	OLR3B	Podebrady	Czechoslovakia
9.505	31.57	4	OEI32	Vienna	Austria
9.505	31.57	5	PRB22	Sao Paulo	Brazil
9.505	31.57	20/100	VUD	Delhi	India
9.505	31.57	10	—	Gauhati	India
9.505	31.57	50/100	JBD	Tokio	Japan
9.505	31.57	35/100	—	Tangier (V.o.A.)	Morocco
9.505	31.57	10	YUC	Belgrade	Yugoslavia
9.506	31.57	4	YVXJ	Barquisimeto	Venezuela
9.510	31.55	15/240	—	Peking	China
9.510	31.55	50/100	GSB	Overseas Service*	U.K.
9.510	31.55	15/120	—	Moscow, Russia	U.S.S.R.
9.514	31.53	1	FNR1	Tananarive	Madagascar
9.515	31.53	—	—	Caltanissetta	Italy
9.515	31.53	100	TAT	Ankara	Turkey
9.515	31.53	50/200	KNBH	Dixon, Cal.	U.S.A.
9.516	31.53	10	CXA71	Montevideo	Uruguay
9.518	31.52	100	OLR	Podebrady	Czechoslovakia
9.520	31.51	100	—	Colombo	Ceylon
9.520	31.51	50	OZF5	Copenhagen	Denmark
9.520	31.51	35	—	Salonika (V.o.A.)	Greece
9.520	31.51	7.5	ZL2	Wellington	New Zealand
9.520	31.51	100	HEU2	Schwarzenburg	Switzerland
9.520	31.51	20	—	Khabarovsk, Russia	U.S.S.R.
9.523	31.50	20	—	Paradys	South Africa
9.525	31.50	1	OXI	Godthaab	Greenland
9.525	31.50	50/100	JOB9	Tokio	Japan
9.525	31.50	7.5/100	—	Warsaw	Poland
9.525	31.50	50/100	GWJ	Overseas Service*	U.K.
9.528	31.49	1	YVMZ	Maracaibo	Venezuela
9.530	31.48	15/240	—	Peking	China
9.530	31.48	35	—	Salonika (V.o.A.)	Greece
9.530	31.48	0.25/10	VUC	Calcutta	India
9.530	31.48	35/100	—	Tangier (V.o.A.)	Morocco
9.530	31.48	20/80	WRUL	Boston, Mass.	U.S.A.
9.530	31.48	25/100	WGEO	Schenectady, N.Y.	U.S.A.
9.531	31.48	5	COCO	Havana	Cuba
9.535	31.46	100	—	Horby	Sweden
9.535	31.46	100	HER4	Schwarzenburg	Switzerland
9.535	31.46	15/120	—	Moscow, Russia	U.S.S.R.
9.539	31.45	7.5/100	—	Warsaw	Poland
9.540	31.45	15/240	—	Peking	China
9.540	31.45	100	—	Allouis	France
9.540	31.45	7.5	ZL2	Wellington	New Zealand
9.540	31.45	10	LKJ2	Tromso	Norway
9.544	31.44	7.5	4VC	Port au Prince	Haiti
9.545	31.43	7.5	ZYS43	Curityba	Brazil
9.545	31.43	4/50	FZI	Brazzaville	Congo Republic
9.545	31.43	8/100	—	Munich (V.o.A.)	Germany (West)
9.545	31.43	7.5	—	Singapore	Malaya
9.545	31.43	100	—	Schwarzenburg	Switzerland
9.545	31.43	75/200	WLWO	Cincinnati, Ohio	U.S.A.

Mc/s	Metres	kW	Call	Station and Country	
9.624	31.17	1	OAX8K	Iquitos	Peru
9.625	31.17	4/50	FZI	Brazzaville	Congo Republic
9.625	31.17	7.5/100	—	Tebrau	Malaya
9.625	31.17	10	XEBT	Mexico City	Mexico
9.625	31.17	50/100	GWO	Overseas Service*	U.K.
9.625	31.17	15/120	—	Moscow, Russia	U.S.S.R.
9.628	31.16	100	—	Allouis	France
9.630	31.15	50	CKLO	Sackville, N.B.	Canada
9.630	31.15	20/100	—	Jülich	Germany (West)
9.630	31.15	8/100	—	Munich (V.o.A.)	Germany (West)
9.630	31.15	20/100	VUD	Delhi	India
9.630	31.15	50/100	—	Rome	Italy
9.630	31.15	35/100	—	Okinawa (V.o.A.)	Okinawa Island
9.630	31.15	5	ZHV2	Freetown	Sierra Leone
9.632	31.14	1	CR6RL	Luanda	Angola
9.635	31.13	7.5	ZYR	Aparecida	Brazil
9.635	31.13	100	CSA	Lisbon	Portugal
9.635	31.13	100	—	Allouis	France
9.635	31.13	20/100	VUD	Delhi	India
9.635	31.13	35/100	—	Okinawa (V.o.A.)	Okinawa Island
9.635	31.13	7.5/100	—	Warsaw	Poland
9.638	31.12	100	HLK5	Seoul	South Korea
9.640	31.12	20/100	DMQ9	Jülich	Germany (West)
9.640	31.12	5	ZOY	Accra	Ghana
9.640	31.12	1	DZH2	Manila, Luzon	Philippines
9.640	31.12	50/100	GVZ	Overseas Service*	U.K.
9.640	31.12	40	—	Kiev, Ukraine	U.S.S.R.
9.640	31.12	10	YVSC	Caracas	Venezuela
9.642	31.12	2.5	ETA	Addis Ababa	Ethiopia
9.645	31.10	7.5	ZYV40	Pocos de Caldas	Brazil
9.645	31.10	50	APK	Karachi	Pakistan
9.645	31.10	8/100	—	Manila, Luzon (V.o.A.)	Philippines
9.645	31.10	5/100	HVJ	Vatican City	Vatican City
9.646	31.10	50/100	—	Cairo	Egypt
9.647	31.10	2	TIFC	San Jose	Costa Rica
9.648	31.10	100	—	Allouis	France
9.648	31.10	3	4VEH	Cap Haitien	Haiti
9.650	31.09	7.5	ZJM8	Limassol	Cyprus
9.650	31.09	100	KRHK	Honolulu	Hawaii
9.650	31.09	20/100	VUD	Delhi	India
9.650	31.09	3	—	Jidda	Saudi Arabia
9.650	31.09	50	WDSI	Brentwood, N.Y.	U.S.A.
9.650	31.09	15/120	—	Moscow, Russia	U.S.S.R.
9.655	31.07	50	OTC2	Leopoldville	Belgian Congo
9.655	31.07	5	JKH2	Tokio	Japan
9.655	31.07	20	ELWA	Monrovia	Liberia
9.655	31.07	5	—	Lagos	Nigeria
9.655	31.07	7.5	—	Kuching	Sarawak
9.655	31.07	100	HEU3	Schwarzenburg	Switzerland
9.655	31.07	40	—	Kiev, Ukraine	U.S.S.R.
9.660	31.06	25	LRX	Buenos Aires	Argentina
9.660	31.06	10	VLM/Q	Brisbane, Queensland	Australia
9.660	31.06	5	VQA56	Jesselton	British North Borneo
9.660	31.06	1	—	Srinagar	Kashmir

Mc/s	Metres	kW	Call	Station and Country	
9.660	31.06	5/100	HVJ	Vatican City	Vatican City
9.665	31.04	5	OEI23	Vienna	Austria
9.665	31.04	15/240	—	Peking	China
9.665	31.04	100	HEU3	Schwarzenburg	Switzerland
9.665	31.04	40	—	Kiev, Ukraine	U.S.S.R.
9.666	31.04	5	TGNB	Guatemala City	Guatemala
9.667	31.03	1	VQ6MI	Hargeisa	British Somaliland
9.667	31.03	5/20	—	Tangier	Morocco
9.669	31.02	50	—	Komsomolsk, Russia	U.S.S.R.
9.670	31.02	5	COCQ	Havana	Cuba
9.670	31.02	8/100	—	Munich (V.o.A.)	Germany (West)
9.670	31.02	10	—	Bhopal	India
9.670	31.02	20/100	VUD	Delhi	India
9.670	31.02	35/100	—	Tangier (V.o.A.)	Morocco
9.670	31.02	35/100	—	Okinawa (V.o.A.)	Okinawa Island
9.671	31.02	15/240	—	Peking	China
9.675	31.01	7.5	PRC22	Porto Alegre	Brazil
9.675	31.01	100	—	Allouis	France
9.675	31.01	20/100	VUD	Delhi	India
9.675	31.01	50/100	JOB3	Tokio	Japan
9.675	31.01	100	—	Madrid	Spain
9.675	31.01	50/100	GWT	Overseas Service*	U.K.
9.675	31.01	20/80	WRUL	Boston, Mass.	U.S.A.
9.675	31.01	20	—	Khabarovsk, Russia	U.S.S.R.
9.680	30.99	10	VLG/H	Lyndhurst, Victoria	Australia
9.680	30.99	100	—	Allouis	France
9.680	30.99	1	XEQQ	Mexico City	Mexico
9.680	30.99	7	EQC	Teheran	Persia
9.680	30.99	20	—	Paradys	South Africa
9.680	30.99	15/120	—	Moscow, Russia	U.S.S.R.
9.685	30.98	50	—	Algiers	Algeria
9.685	30.98	50	PRE6	Sao Paulo	Brazil
9.685	30.98	35/100	—	Tangier (V.o.A.)	Morocco
9.685	30.98	1	HOH31	Panama City	Panama
9.685	30.98	7.5/100	—	Warsaw	Poland
9.685	30.98	40	—	Kiev, Ukraine	U.S.S.R.
9.690	30.96	10	LRA32	Buenos Aires	Argentina
9.690	30.96	7.5/100	—	Tebrau	Malaya
9.690	30.96	50/100	GRX	Overseas Service*	U.K.
9.690	30.96	15/120	—	Moscow, Russia	U.S.S.R.
9.694	30.94	50	APK	Karachi	Pakistan
9.695	30.94	100	—	Madrid	Spain
9.700	30.93	5	—	Sofia	Bulgaria
9.700	30.93	8/100	—	Manila, Luzon (V.o.A.)	Philippines
9.700	30.93	50/100	GWY	Overseas Service*	U.K.
9.700	30.93	110	WLWO	Cincinnati, Ohio	U.S.A.
9.700	30.93	50/200	KCBR	Delano, Cal.	U.S.A.
9.700	30.93	15/120	—	Moscow, Russia	U.S.S.R.
9.702	30.93	35/100	—	Tangier (V.o.A.)	Morocco
9.704	30.92	15/240	—	Peking	China
9.704	30.92	1.5	FZF6	Fort de France	Martinique
9.705	30.92	100	ORU	Wavre	Belgium
9.705	30.92	10	ZYZ24	Rio de Janeiro	Brazil
9.705	30.92	20/100	VUD	Delhi	India

Mc/s	Metres	kW	Call	Station and Country	
9.705	30.92	50	WDSI	Brentwood, N.Y.	U.S.A.
9.705	30.92	1	—	Sana'a	Yemen
9.710	30.90	50	CHLR	Sackville, N.B.	Canada
9.710	30.90	50	YDF6	Djakarta, Java	Indonesia
9.710	30.90	50/100	—	Rome	Italy
9.710	30.90	2.5	ZQP	Lusaka	Rhodesia-Nyasaland Fed.
9.710	30.90	50/100	—	Overseas Service*	U.K.
9.710	30.90	15/120	—	Moscow, Russia	U.S.S.R.
9.715	30.88	15/240	—	Peking	China
9.715	30.88	10/100	—	Lopik	Netherlands
9.715	30.88	15/120	—	Moscow, Russia	U.S.S.R.
9.720	30.86	50	PRL7	Rio de Janeiro	Brazil
9.720	30.86	—	—	Hyderabad	India
9.720	30.86	20	—	Paradys	South Africa
9.720	30.86	15/120	—	Moscow, Russia	U.S.S.R.
9.725	30.85	7.5/100	—	Tebrau	Malaya
9.725	30.85	50/100	—	Overseas Service*	U.K.
9.725	30.85	110	WLWO	Cincinnati, Ohio	U.S.A.
9.728	30.84	12	—	Leipzig	Germany (East)
9.730	30.83	4/50	FZI	Brazzaville	Congo Republic
9.730	30.83	20/100	VUD	Delhi	India
9.730	30.83	3	DZH7	Manila, Luzon	Philippines
9.735	30.82	15/240	—	Shanghai	China
9.735	30.82	7.5	HI2T	Ciudad Trujillo	Dominican Rep.
9.735	30.82	20/100	DMQ	Jülich	Germany (West)
9.735	30.82	10/100	VUM	Madras	India
9.735	30.82	100	CSA	Lisbon	Portugal
9.735	30.82	50/100	GWF	Overseas Service*	U.K.
9.736	30.81	100	—	Allouis	France
9.738	30.80	50	APK	Karachi	Pakistan
9.740	30.80	10	LRS2	Buenos Aires	Argentina
9.740	30.80	5	VQA57	Jesselton	British North Borneo
9.740	30.80	1.2	COKG	Santiago	Cuba
9.740	30.80	50/100	—	Cairo	Egypt
9.740	30.80	35/100	—	Tangier (V.o.A.)	Morocco
9.740	30.80	50/100	—	Overseas Service*	U.K.
9.740	30.80	50/100	KNBH	Dixon, Cal.	U.S.A.
9.740	30.80	40	—	Kiev, Ukraine	U.S.S.R.
9.743	30.79	20/100	—	Ankara	Turkey
9.744	30.79	1	HCJB	Quito	Ecuador
9.745	30.79	100	ORU	Wavre	Belgium
9.745	30.79	7.5	ZYR57	Sao Paulo	Brazil
9.745	30.79	20/100	VUD	Delhi	India
9.745	30.79	10/100	—	Lopik	Netherlands
9.745	30.79	35/100	—	Okinawa (V.o.A.)	Okinawa Island
9.745	30.79	15/120	—	Moscow, Russia	U.S.S.R.
9.750	30.77	50	—	Algiers	Algeria
9.750	30.77	50/100	—	Cairo	Egypt
9.750	30.77	20/100	VUD	Delhi	India
9.750	30.77	50	APK	Karachi	Pakistan
9.750	30.77	1	DZH3	Manila, Luzon	Philippines
9.750	30.77	50/100	—	Overseas Service*	U.K.
9.750	30.77	15/120	—	Moscow, Russia	U.S.S.R.
9.755	30.75	1	CR6RH	Sa da Bandeira	Angola

Mc/s	Metres	kW	Call	Station and Country
9.755	30.75	7.5	ZYA63	Goiana Brazil
9.755	30.75	100	—	Allouis France
9.755	30.75	25	—	Saigon, Vietnam Indo-China
9.755	30.75	110	WLWO	Cincinnati, Ohio U.S.A.
9.756	30.75	15/240	—	Peking China
9.760	30.74	50	LRV	Buenos Aires Argentina
9.760	30.74	35/100	—	Tangier (V.o.A.) Morocco
9.760	30.74	50/100	MCR	Overseas Service* U.K.
9.760	30.74	15/120	—	Moscow, Russia U.S.S.R.
9.762	30.73	50/100	—	Cairo Egypt
9.765	30.72	100	—	Allouis France
9.765	30.72	10/100	VUM	Madras India
9.765	30.72	35/100	—	Okinawa (V.o.A.) Okinawa Island
9.765	30.72	15/120	—	Moscow, Russia U.S.S.R.
9.766	30.72	10	TGWA	Guatemala City Guatemala
9.766	30.72	12	—	Hanoi, N. Vietnam Indo-China
9.767	30.72	100	ORU	Wavre Belgium
9.770	30.71	1	PRL4	Rio de Janeiro Brazil
9.770	30.71	50/100	—	Cairo Egypt
9.770	30.71	50/100	MCN	Overseas Service* U.K.
9.770	30.71	15/120	—	Moscow, Russia U.S.S.R.
9.773	30.70	15/240	—	Peking China
9.775	30.69	3	BEC32	Taipei Formosa
9.780	30.67	15/120	—	Moscow, Russia U.S.S.R.
9.785	30.66	15/240	—	Peking China
9.790	30.64	—	—	Leningrad, Russia U.S.S.R.
9.795	30.62	50/100	—	Cairo Egypt
9.800	30.61	15/240	—	Peking China
9.800	30.61	15/120	—	Moscow, Russia U.S.S.R.
9.805	30.60	50/100	—	Cairo Egypt
9.810	30.58	15/120	—	Moscow, Russia U.S.S.R.
9.825	30.53	50/100	GRH	Overseas Service* U.K.
9.832	30.51	1	COBL	Havana Cuba
9.832	30.51	100	—	Budapest Hungary
9.840	30.49	2	—	Baku, Azerbaidjan U.S.S.R.
9.850	30.46	20/100	VUD	Delhi India
9.850	30.46	15/120	—	Moscow, Russia U.S.S.R.
9.860	30.43	15/240	—	Peking China
9.866	30.42	50	YDF8	Djakarta, Java Indonesia
9.880	30.36	15/120	—	Moscow, Russia U.S.S.R.
9.900	30.30	1	—	Garoua Camerouns
9.902	30.30	10	—	Tangier Morocco
9.905	30.29	20	—	Khabarovsk, Russia U.S.S.R.
9.915	30.26	50/100	GRU	Overseas Service* U.K.
9.930	30.20	2	—	Tripoli Libya
9.931	30.20	3	—	Jidda Saudi Arabia
9.940	30.18	12	—	Hanoi, N. Vietnam Indo-China
9.965	30.11	4/50	FZI	Brazzaville Congo Republic
9.973	30.08	25	—	Kabul Afghanistan
9.973	30.08	15/240	—	Peking China
10.076	29.77	3	—	Jidda Saudi Arabia
10.080	29.76	7.5/100	—	Warsaw Poland
10.260	29.24	15/240	—	Peking China
10.430	28.76	100	—	Allouis France

Mc/s	Metres	kW	Call	Station and Country	
10.530	28.49	15	—	Alma Ata, Kazak	U.S.S.R.
11.100	27.03	15/240	—	Peking	China
11.290	26.57	15/240	—	Peking	China
11.330	26.48	15/240	—	Peking	China
11.342	26.40	10	—	Tangier	Morocco
11.454	26.19	4/50	FZI	Brazzaville	Congo Republic
11.455	26.19	15/240	—	Peking	China
11.506	26.07	20	—	Tangier	Morocco
11.515	26.05	15/240	—	Peking	China
11.517	26.06	10	—	Tangier	Morocco
11.570	25.93	15/120	—	Moscow, Russia	U.S.S.R.
11.590	25.88	15/240	—	Peking	China
11.600	25.86	15/240	—	Peking	China
11.630	25.79	—	—	Leningrad, Russia	U.S.S.R.
11.650	25.75	15/240	—	Peking	China
11.664	25.73	50/100	—	Cairo	Egypt
11.664	25.73	20	—	Damascus	Syria
11.670	25.71	50	OTH	Leopoldville	Belgian Congo
11.671	25.71	50	HSK9	Bangkok	Thailand
11.675	25.70	50	APK	Karachi	Pakistan
11.678	25.69	15/240	—	Peking	China
11.680	25.68	50/100	GRG	Overseas Service*	U.K.
11.685	25.67	5/100	HVJ	Vatican City	Vatican City
11.690	25.66	15/120	—	Moscow, Russia	U.S.S.R.
11.690	25.66	5	—	Tashkent, Uzbek	U.S.S.R.
11.692	25.65	50	—	Komsomolsk, Russia	U.S.S.R.
11.700	25.64	100	—	Allouis	France
11.700	25.64	7.5/100	—	Tebrau	Malaya
11.705	25.63	50	CKXA	Sackville, N.B.	Canada
11.705	25.63	50/100	JOA11	Tokio	Japan
11.705	25.63	100	—	Horby	Sweden
11.705	25.63	50/100	GVW	Overseas Service*	U.K.
11.705	25.63	40	—	Kiev, Ukraine	U.S.S.R.
11.707	25.63	7.5/100	—	Warsaw	Poland
11.710	25.62	100	VLA/D	Shepparton, Victoria	Australia
11.710	25.62	15/240	—	Peking	China
11.710	25.62	50/100	—	Cairo	Egypt
11.710	25.62	8/100	—	Munich (V.o.A.)	Germany (West)
11.710	25.62	20/100	VUD	Delhi	India
11.710	25.62	50	APK	Karachi	Pakistan
11.710	25.62	50	WBOU	Bound Brook, N.J.	U.S.A.
11.710	25.62	50	WDSI	Brentwood, N.Y.	U.S.A.
11.710	25.62	20/80	WRUL	Boston, Mass.	U.S.A.
11.710	25.62	15/120	—	Moscow, Russia	U.S.S.R.
11.715	25.61	7.5	—	Athens	Greece
11.715	25.61	20/100	VUD	Delhi	India
11.715	25.61	35/100	—	Tangier (V.o.A.)	Morocco
11.715	25.61	50/200	KCBR	Delano, Cal.	U.S.A.
11.715	25.61	15/120	—	Moscow, Russia	U.S.S.R.
11.720	25.60	7.5	OTM4	Leopoldville	Belgian Congo
11.720	25.60	100	ORU	Wavre	Belgium
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



Mc/s	Metres	kW	Call	Station and Country	
11.720	25.60	2	CKRX	Winnipeg, Manitoba	Canada
11.720	25.60	7.5	ZJM7	Limassol	Cyprus
11.720	25.60	15/120	—	Moscow, Russia	U.S.S.R.
11.725	25.29	4/50	FZI	Brazzaville	Congo Republic
11.725	25.59	7.5/100	—	Tebrau	Malaya
11.725	25.59	50/100	—	Overseas Service*	U.K.
11.726	25.59	100	OLR4E	Podebrady	Czechoslovakia
11.730	25.58	20/100	VUD	Delhi	India
11.730	25.58	7.5/100	—	Tebrau	Malaya
11.730	25.58	35/100	—	Tangier (V.o.A.)	Morocco
11.730	25.58	10/100	PHI	Lopik	Netherlands
11.730	25.58	50/100	GVV	Overseas Service*	U.K.
11.730	25.58	50/200	KCBR	Delano, Cal.	U.S.A.
11.730	25.58	15/120	—	Moscow, Russia	U.S.S.R.
11.735	25.56	2	ZYA58	Rio de Janeiro	Brazil
11.735	25.56	8	LKQ	Fredrikstad	Norway
11.735	25.56	8/100	—	Manila, Luzon (V.o.A.)	Philippines
11.735	25.56	40	—	Kiev, Ukraine	U.S.S.R.
11.735	25.56	5	CXA7	Montevideo	Uruguay
11.740	25.55	100	VLA/D	Shepparton, Victoria	Australia
11.740	25.55	100	—	Allouis	France
11.740	25.55	20/100	VUD	Delhi	India
11.740	25.55	35/100	—	Tangier (V.o.A.)	Morocco
11.740	25.55	7.5/100	—	Warsaw	Poland
11.740	25.55	50/200	KNBH	Dixon, Cal.	U.S.A.
11.740	25.55	40	—	Kiev, Ukraine	U.S.S.R.
11.740	25.55	5/100	HVJ3	Vatican City	Vatican City
11.743	25.54	10	—	Monrovia	Liberia
11.745	25.54	100	OLR	Podebrady	Czechoslovakia
11.750	25.53	10	—	Tokio	Japan
11.750	25.53	1	COCY	Havana	Cuba
11.750	25.53	50	APK	Karachi	Pakistan
11.750	25.53	4	—	Jidda	Saudi Arabia
11.750	25.53	20	—	Paradys	South Africa
11.750	25.53	20	—	Damascus	Syria
11.750	25.53	50/100	GSD	Overseas Service*	U.K.
11.750	25.53	15/120	—	Moscow, Russia	U.S.S.R.
11.751	25.53	50	—	Algiers	Algeria
11.755	25.52	4	CE1174	Santiago	Chile
11.755	25.52	25	—	Komsomolsk, Russia	U.S.S.R.
11.755	25.52	15/120	—	Moscow, Russia	U.S.S.R.
11.760	25.51	10	VLG/H	Lyndhurst	Australia
11.760	25.51	50	CKRA	Sackville, N.B.	Canada
11.760	25.51	8/100	—	Munich (V.o.A.)	Germany (West)
11.760	25.51	7.5	—	Lourenco Marques	Mozambique
11.760	25.51	35/100	—	Tangier (V.o.A.)	Morocco
11.760	25.51	15/120	—	Moscow, Russia	U.S.S.R.
11.765	25.50	25	ZYB8	Sao Paulo	Brazil
11.765	25.50	50	—	Rangoon	Burma
11.765	25.50	20/100	VUD	Delhi	India
11.765	25.50	5/20	—	Tangier	Morocco
11.765	25.50	8/100	—	Manila, Luzon (V.o.A.)	Philippines
11.770	25.49	100	VLA/D	Shepparton, Victoria	Australia

Mc/s	Metres	kW	Call	Station and Country	
11.770	25.49	35	—	Colombo	Ceylon
11.770	25.49	100	YDF2	Djakarta, Java	Indonesia
11.770	25.49	35/100	—	Tangier (V.o.A.)	Morocco
11.770	25.49	7.5/100	—	Warsaw	Poland
11.770	25.49	50/100	GVU	Overseas Service*	U.K.
11.770	25.49	50	WBOU	Bound Brook, N.J.	U.S.A.
11.770	25.49	15/120	—	Moscow, Russia	U.S.S.R.
11.775	25.48	4	OEI35	Vienna	Austria
11.775	25.48	50	ZYZ28	Rio de Janeiro	Brazil
11.775	25.48	100	—	Honolulu (V.o.A.)	Hawaii
11.775	25.48	50/200	KNBH	Dixon, Cal.	U.S.A.
11.780	25.47	10/100	VUM	Madras	India
11.780	25.47	7.5	ZL3	Wellington	New Zealand
11.780	25.47	50/100	—	Overseas Service*	U.K.
11.780	25.47	20/80	WRUL	Boston, Mass.	U.S.A.
11.780	25.47	15/120	—	Moscow, Russia	U.S.S.R.
11.785	25.46	4	OEI24	Vienna	Austria
11.785	25.46	7.5	ZYU61	Porto Alegre	Brazil
11.785	25.46	1/100	YDF2	Djakarta, Java	Indonesia
11.785	25.46	35/100	—	Tangier (V.o.A.)	Morocco
11.785	25.46	15/120	—	Moscow, Russia	U.S.S.R.
11.790	25.45	8/100	—	Manila, Luzon (V.o.A.)	Philippines
11.790	25.45	35/100	—	Tangier (V.o.A.)	Morocco
11.790	25.45	50/100	GWV	Overseas Service*	U.K.
11.790	25.45	50	WBOU	Bound Brook, N.J.	U.S.A.
11.790	25.45	15/120	—	Moscow, Russia	U.S.S.R.
11.795	25.43	100	OLR	Podebrady	Czechoslovakia
11.795	25.43	20/100	DMQ11	Jülich	Germany (West)
11.795	25.43	1/100	YDF2	Djakarta, Java	Indonesia
11.800	25.42	1	COBH	Havana	Cuba
11.800	25.42	20/100	VUD	Delhi	India
11.800	25.42	50	JOB11	Tokio	Japan
11.800	25.42	50/100	GWH	Overseas Service*	U.K.
11.800	25.42	15/120	—	Moscow, Russia	U.S.S.R.
11.804	25.41	15/240	—	Peking	China
11.805	25.41	35	—	Salonika (V.o.A.)	Greece
11.805	25.41	50/100	—	Rome	Italy
11.805	25.41	35/100	—	Tangier (V.o.A.)	Morocco
11.805	25.41	15/120	—	Moscow, Russia	U.S.S.R.
11.810	25.40	100	VLA/D	Shepparton, Victoria	Australia
11.810	25.40	50/100	—	Rome	Italy
11.810	25.40	100	—	Horby	Sweden
11.810	25.40	75/200	WLWO	Cincinnati, Ohio	U.S.A.
11.814	25.39	7.5/100	—	Warsaw	Poland
11.815	25.39	5	ZYU24	Go'ana	Brazil
11.815	25.39	3.5/50	BED6	Taipei	Formosa
11.815	25.39	20	—	Khabarovsk, Russia	U.S.S.R.
11.817	25.39	50/200	—	Madrid	Spain
11.818	25.39	15/240	—	Peking	China
11.820	25.38	7.5/100	—	Tebrau	Malaya
11.820	25.38	50/100	GSN	Overseas Service*	U.K.
11.821	25.38	50	—	Algiers	Algeria
11.822	25.38	10	ZQP	Lusaka	Rhodesia-Nyasaland Fed.
11.823	25.38	10	ELWA	Monrovia	Liberia

Mc/s	Metres	kW	Call	Station and Country
11.825	25.37	16	ZYK32	Recife Brazil
11.825	25.37	4	—	Papeete Tahiti
11.825	25.37	40	—	Kiev, Ukraine U.S.S.R.
11.830	25.36	100	OLR	Podebrady Czechoslovakia
11.830	25.36	8/100	—	Munich (V.o.A.) Germany (West)
11.830	25.36	35/100	—	Tangier (V.o.A.) Morocco
11.830	25.36	7.5	ZL19	Wellington New Zealand
11.830	25.36	50	WDSI	Brentwood, N.Y. U.S.A.
11.830	25.36	50/200	KCBR	Delano, Cal. U.S.A.
11.835	25.35	50	—	Algiers Algeria
11.835	25.35	35	—	Colombo (V.o.A.) Ceylon
11.835	25.35	5	CXA19	Montevideo Uruguay
11.840	25.34	2	VLW/X	Perth, W.A. Australia
11.840	25.34	3.5/50	BED64	Taipei Formosa
11.840	25.34	8/100	—	Munich (V.o.A.) Germany (West)
11.840	25.34	12	—	Hanoi, N. Vietnam Indo-China
11.840	25.34	50/100	CSA	Lisbon Portugal
11.840	25.34	20	—	Paradys South Africa
11.840	25.34	50/100	GWQ	Overseas Service* U.K.
11.840	25.34	20	—	Khabarovsk, Russia U.S.S.R.
11.845	25.33	100	OLR	Podebrady Czechoslovakia
11.845	25.33	100	—	Allouis France
11.845	25.33	35	—	Salonika (V.o.A.) Greece
11.845	25.33	50	APK	Karachi Pakistan
11.845	25.33	15/120	—	Moscow, Russia U.S.S.R.
11.846	25.32	5	—	Jidda Saudi Arabia
11.850	25.32	100	ORU	Wavre Belgium
11.850	25.32	5	TGNC	Guatemala City Guatemala
11.850	25.32	100	KRHO	Honolulu (V.o.A.) Hawaii
11.850	25.32	8	LLK	Fredrikstad Norway
11.850	25.32	1.2	ZPA3	Ascuncion Paraguay
11.850	25.32	110	WLWO	Cincinnati, Ohio U.S.A.
11.850	25.32	40	—	Kiev, Ukraine U.S.S.R.
11.855	25.31	50	APK	Karachi Pakistan
11.855	25.31	10	DZH8	Manila, Luzon Philippines
11.855	25.31	6	—	Khartoum Sudan
11.855	25.31	110	WLWO	Cincinnati, Ohio U.S.A.
11.856	25.31	10	XELZZ	Mexico City Mexico
11.860	25.30	20/100	VUD	Delhi India
11.860	25.30	50/100	GSE	Overseas Service* U.K.
11.860	25.30	40	—	Kiev, Ukraine U.S.S.R.
11.862	25.29	1	CR6RZ	Luanda Angola
11.865	25.28	5	PRA8	Recife Brazil
11.865	25.28	15/240	—	Peking China
11.865	25.28	35/100	—	Tangier (V.o.A.) Morocco
11.865	25.28	100	HER5	Schwarzenburg Switzerland
11.865	25.28	15/120	—	Moscow, Russia U.S.S.R.
11.870	25.27	35/100	—	Tangier (V.o.A.) Morocco
11.870	25.27	50	WBOU	Bound Brook, N.J. U.S.A.
11.870	25.27	50/200	KCBR	Delano, Cal. U.S.A.
11.870	25.27	50/200	KNBH	Dixon, Cal. U.S.A.
11.870	25.27	15/120	—	Moscow, Russia U.S.S.R.
11.875	25.26	10	ZYA64	Salvador Brazil
11.875	25.26	35	—	Colombo Ceylon

Mc/s	Metres	kW	Call	Station and Country
12.008	24.98	10	—	Tangier Morocco
12.020	24.96	20/100	VUD	Delhi India
12.020	24.96	15/120	—	Moscow, Russia U.S.S.R.
12.040	24.92	20/100	VUD	Delhi India
12.075	24.84	15/120	—	Moscow, Russia U.S.S.R.
12.095	24.80	50/100	GRF	Overseas Service* U.K.
12.100	24.79	15/120	—	Moscow, Russia U.S.S.R.
12.123	24.75	15/240	—	Peking China
12.175	24.64	7	TFJ	Reykjavik Iceland
12.175	24.64	15/120	—	Moscow, Russia U.S.S.R.
13.845	21.67	15/240	—	Peking China
14.260	21.04	15/120	—	Moscow, Russia U.S.S.R.
14.440	20.78	15/120	—	Moscow, Russia U.S.S.R.
14.467	20.74	15/240	—	Peking China
14.780	20.30	—	—	Murmansk, Russia U.S.S.R.
14.820	20.24	15/240	—	Peking China
14.829	20.23	2.5	—	Tangier Morocco
14.860	20.19	15/120	—	Moscow, Russia U.S.S.R.
14.940	20.08	10	—	Forest Side Mauritius
15.018	19.98	2.5	—	Tangier Morocco
15.022	19.98	12	—	Hanoi, N. Vietnam Indo-China
15.027	19.96	15/240	—	Peking China
15.053	19.93	15/120	—	Moscow, Russia U.S.S.R.
15.060	19.92	15/240	—	Peking China
15.065	19.91	15/120	—	Moscow, Russia U.S.S.R.
15.070	19.91	50/100	GWC	Overseas Service* U.K.
15.080	19.89	15/120	—	Moscow, Russia U.S.S.R.
15.086	19.89	5	—	St. Georges, Grenada Windward Is.
15.090	19.88	50	CKLX	Sackville, N.B. Canada
15.090	19.88	15/120	—	Moscow, Russia U.S.S.R.
15.095	19.87	15/240	—	Peking China
15.100	19.87	100	CSA	Lisbon Portugal
15.100	19.87	15/120	—	Moscow, Russia U.S.S.R.
15.105	19.86	50	CKUS	Sackville, N.B. Canada
15.105	19.86	20/100	VUD	Delhi India
15.105	19.86	15/120	—	Moscow, Russia U.S.S.R.
15.110	19.85	50/100	GWG	Overseas Service* U.K.
15.110	19.85	15/120	—	Moscow, Russia U.S.S.R.
15.115	19.85	15/240	—	Peking China
15.115	19.85	1	HCJB	Quito Ecuador
15.115	19.85	15/120	—	Moscow, Russia U.S.S.R.
15.120	19.84	100	—	Colombo Ceylon
15.120	19.84	100	—	Allouis France
15.120	19.84	50/100	—	Rome Italy
15.120	19.84	7.5/100	—	Warsaw Poland
15.120	19.84	5/100	HVJ	Vatican City Vatican City
15.123	19.83	20	EPB	Teheran Persia
15.125	19.83	100	OLR	Podebrady Czechoslovakia
15.125	19.83	8/100	—	Manila, Luzon (V.o.A.) Philippines
15.125	19.83	50	CSA	Lisbon Portugal
15.130	19.83	20/100	VUD	Delhi India
15.130	19.83	20/80	WRUL	Boston, Mass. U.S.A.
15.130	19.83	50	WBOU	Bound Brook, N.J. U.S.A.
15.130	19.83	50/200	KCBR	Delano, Cal. U.S.A.

Mcs	Metres	kW	Call	Station and Country	
15.130	19.83	15/120	—	Moscow, Russia	U.S.S.R.
15.131	19.83	100	—	Allouis	Brazil
15.135	19.82	7	PRB23	Sao Paulo	France
15.135	19.82	50/100	JOB15	Tokio	Japan
15.135	19.82	15/120	—	Moscow, Russia	U.S.S.R.
15.140	19.82	20/100	VUD	Delhi	India
15.140	19.82	50/100	GSF	Overseas Service*	U.K.
15.140	19.82	40	—	Kiev, Ukraine	U.S.S.R.
15.140	19.82	50	—	Petropavlovsk, Russia	U.S.S.R.
15.145	19.81	20	ZYK33	Recife	Brazil
15.149	19.80	1	CE1515	Santiago	Chile
15.150	19.80	100	—	Honolulu (V.o.A.)	Hawaii
15.150	19.80	50/100	YDC	Djakarta, Java	Indonesia
15.150	19.80	100	CSA	Lisbon	Portugal
15.150	19.80	50	WBOU	Bound Brook, N.J.	U.S.A.
15.150	19.80	50/200	KNBH	Dixon, Cal.	U.S.A.
15.150	19.80	15/120	—	Moscow, Russia	U.S.S.R.
15.153	19.80	7.5	CR7BG	Lourenco Marques	Mozambique
15.153	19.80	50	DAX4R	Lima	Peru
15.155	19.79	25	ZYN9	Sao Paulo	Brazil
15.155	19.79	8/100	—	Munich (V.o.A.)	Germany (West)
15.155	19.79	20/100	VUD	Delhi	India
15.155	19.79	50	APK	Karachi	Pakistan
15.155	19.79	100	—	Horby	Sweden
15.155	19.79	15/120	—	Moscow, Russia	U.S.S.R.
15.160	19.79	50/100	VLA/D	Shepparton, Victoria	Australia
15.160	19.79	8/100	—	Munich (V.o.A.)	Germany (West)
15.160	19.79	20/100	VUD	Delhi	India
15.160	19.79	10	XEWW	Mexico City	Mexico
15.160	19.79	35/100	—	Tangier (V.o.A.)	Morocco
15.160	19.79	100	TAU	Ankara	Turkey
15.160	19.79	110	WLWO	Cincinnati, Ohio	U.S.A.
15.160	19.79	15/120	—	Moscow, Russia	U.S.S.R.
15.165	19.78	10	ZYN7	Fortaleza	Brazil
15.165	19.78	50	OZH	Copenhagen	Denmark
15.165	19.78	20	—	Damascus	Syria
15.165	19.78	110	WLWO	Cincinnati, Ohio	U.S.A.
15.165	19.78	15/120	—	Moscow, Russia	U.S.S.R.
15.167	19.78	100	OLR	Podebrady	Czechoslovakia
15.169	19.78	1	OBX4C	Lima	Peru
15.170	19.78	10	TGWA	Guatemala City	Guatemala
15.170	19.78	20/100	VUD	Delhi	India
15.170	19.78	10	LKV	Fredrikstad	Norway
15.175	19.77	15/240	—	Peking	China
15.175	19.77	10	LLM	Fredrikstad	Norway
15.175	19.77	15/120	—	Moscow, Russia	U.S.S.R.
15.180	19.76	50/100	GSO	Overseas Service*	U.K.
15.180	19.76	15/120	—	Moscow, Russia	U.S.S.R.
15.183	19.76	100	OLR	Podebrady	Czechoslovakia
15.185	19.76	100	—	Allouis	France
15.185	19.76	35/100	—	Tangier (V.o.A.)	Morocco
15.185	19.76	8/100	—	Manila, Luzon (V.o.A.)	Philippines
15.187	19.76	4/50	FZI	Brazzaville	Congo Republic
15.190	19.75	5	PRK9	Belo Horizonte	Brazil

Mc/s	Metres	kW	Call	Station and Country
15.190	19.75	50	CKCX	Sackville, N.B. Canada
15.190	19.75	15/240	—	Peking China
15.190	19.75	100	OIX4	Pori Finland
15.190	19.75	20/100	VUD	Delhi India
15.190	19.75	10/100	VUM	Madras India
15.190	19.75	35/100	—	Tangier (V.o.A.) Morocco
15.190	19.75	50	WBOU	Bound Brook, N.J. U.S.A.
15.190	19.75	15/120	—	Moscow, Russia U.S.S.R.
15.194	19.74	100	OLR	Podebrady Czechoslovakia
15.195	19.74	100	TAQ	Ankara Turkey
15.195	19.74	50	WDSI	Brentwood, N.Y. U.S.A.
15.195	19.74	15/120	—	Moscow, Russia U.S.S.R.
15.196	19.74	3	ZPA7	Ascuncion Paraguay
15.198	19.74	10	ELWA	Monrovia Liberia
15.200	19.74	50/100	VLA/D	Shepparton, Victoria Australia
15.200	19.74	8/100	—	Munich (V.o.A.) Germany (West)
15.200	19.74	35/100	—	Tangier (V.o.A.) Morocco
15.200	19.74	8/100	—	Manila, Luzon (V.o.A.) Philippines
15.200	19.74	20/80	WRUL	Boston, Mass. U.S.A.
15.200	19.74	15/120	—	Moscow, Russia U.S.S.R.
15.205	19.73	8/100	—	Munich (V.o.A.) Germany (West)
15.205	19.73	5	XESC	Mexico City Mexico
15.205	19.73	50	APK	Karachi Pakistan
15.205	19.73	20	—	Paradys South Africa
15.205	19.73	15/120	—	Moscow, Russia U.S.S.R.
15.210	19.72	10	VLG/H	Lyndhurst, Victoria Australia
15.210	19.72	8/100	—	Munich (V.o.A.) Germany (West)
15.210	19.72	20/100	VUD	Delhi India
15.210	19.72	35/100	—	Tangier (V.o.A.) Morocco
15.210	19.72	8/100	—	Manila, Luzon (V.o.A.) Philippines
15.210	19.72	50/100	GWU	Overseas Service* U.K.
15.210	19.72	50	WDSI	Brentwood, N.Y. U.S.A.
15.210	19.72	50/200	KCBR	Delano, Cal. U.S.A.
15.210	19.72	15/120	—	Moscow, Russia U.S.S.R.
15.215	19.72	50	APK	Karachi Pakistan
15.215	19.72	35/100	—	Okinawa (V.o.A.) Okinawa Island
15.220	19.71	50/100	VLA/D	Shepparton, Victoria Australia
15.220	19.71	50	HCJB	Quito Ecuador
15.220	19.71	8/100	—	Munich (V.o.A.) Germany (West)
15.220	19.71	35/100	—	Tangier (V.o.A.) Morocco
15.220	19.71	40	PCJ2	Huizen Netherlands
15.220	19.71	7.5	ZL10	Wellington New Zealand
15.220	19.71	20/80	WRUL	Boston, Mass. U.S.A.
15.220	19.71	40	—	Kiev, Ukraine U.S.S.R.
15.222	19.70	15/240	—	Peking China
15.225	19.70	10	ZYN22	Salvador Brazil
15.225	19.70	3.5/50	BED5	Taipei Formosa
15.225	19.70	20/100	VUD	Delhi India
15.225	19.70	50/100	JOB9	Tokio Japan
15.225	19.70	35/100	—	Tangier (V.o.A.) Morocco
15.225	19.70	25	—	Dakar Senegal
15.225	19.70	15/120	—	Moscow, Russia U.S.S.R.
15.230	19.70	10	VLG/H	Lyndhurst, Victoria Australia
15.230	19.70	35	—	Colombo Ceylon

Mc/s	Metres	kW	Call	Station and Country	
15.230	19.70	100	OLR	Podebrady	Czechoslovakia
15.230	19.70	10	BED3	Taipei	Formosa
15.230	19.70	8/100	—	Munich (V.o.A.)	Germany (West)
15.230	19.70	20/100	VUD	Delhi	India
15.230	19.70	35/100	—	Tangier (V.o.A.)	Morocco
15.230	19.70	20	—	Paradys	South Africa
15.230	19.70	50/100	GWD	Overseas Service*	U.K.
15.230	19.70	20/80	WRUL	Boston, Mass.	U.S.S.R.
15.230	19.70	50/200	KNBH	Dixon, Cal.	U.S.A.
15.230	19.70	15/120	—	Moscow, Russia	U.S.S.R.
15.235	19.69	20/100	VUD	Delhi	India
15.235	19.69	50/100	JOB15	Tokio	Japan
15.235	19.69	35/100	—	Tangier (V.o.A.)	Morocco
15.235	19.69	50	APK	Karachi	Pakistan
15.235	19.69	40	—	Kiev, Ukraine	U.S.S.R.
15.235	19.69	25	—	Komsomolsk, Russia	U.S.S.R.
15.235	19.69	15/120	—	Moscow, Russia	U.S.S.R.
15.240	19.69	100	VLA/D	Shepparton, Victoria	Australia
15.240	19.69	100	—	Allouis	France
15.240	19.69	20/100	VUD	Delhi	India
15.240	19.69	100	—	Horby	Sweden
15.240	19.69	110	WLWO	Cincinnati, Ohio	U.S.A.
15.240	19.69	15/120	—	Moscow, Russia	U.S.S.R.
15.240	19.69	100	—	Belgrade	Yugoslavia
15.243	19.68	15/240	—	Peking	China
15.245	19.68	35/100	—	Tangier (V.o.A.)	Morocco
15.245	19.68	50	APK	Karachi	Pakistan
15.245	19.68	15/120	—	Moscow, Russia	U.S.S.R.
15.250	19.67	15/240	—	Peking	China
15.250	19.67	50	—	Tel Aviv	Israel
15.250	19.67	8/100	—	Manila, Luzon (V.o.A.)	Philippines
15.250	19.67	3	—	Bucharest	Rumania
15.250	19.67	110	WLWO	Cincinnati, Ohio	U.S.A.
15.250	19.67	50/200	KNBH	Dixon, Cal.	U.S.A.
15.252	19.67	35/100	—	Tangier (V.o.A.)	Morocco
15.255	19.67	50	CKCX	Sackville, N.B.	Canada
15.255	19.67	50/100	—	Tokio	Japan
15.255	19.67	50	APK3	Karachi	Pakistan
15.255	19.67	50	HLK7	Seoul	South Korea
15.260	19.66	50/100	GS1	Overseas Service*	U.K.
15.260	19.66	15/120	—	Moscow, Russia	U.S.S.R.
15.262	19.66	100	OLR	Podebrady	Czechoslovakia
15.265	19.65	35	—	Colombo (V.o.A.)	Ceylon
15.265	19.65	20/100	VUD	Delhi	India
15.265	19.65	7.5	APD	Dacca	Pakistan
15.265	19.65	15/120	—	Moscow, Russia	U.S.S.R.
15.270	19.65	10/100	VUB	Bombay	India
15.270	19.65	8/100	—	Manila, Luzon (V.o.A.)	Philippines
15.270	19.65	50	WBOU	Bound Brook, N.J.	U.S.A.
15.270	19.65	50	WDSI	Brentwood, N.Y.	U.S.A.
15.270	19.65	15/120	—	Moscow, Russia	U.S.S.R.
15.271	19.65	15/240	—	Peking	China
15.274	19.64	7.5/100	—	Warsaw	Poland
15.275	19.64	20/100	DMQ15	Jülich	Germany (West)

Mc/s	Metres	kW	Call	Station and Country
15.275	19.64	50/100	APK	Karachi Pakistan
15.280	19.63	8/100	—	Munich (V.o.A.) Germany (West)
15.280	19.63	7.5	ZL4	Wellington New Zealand
15.280	19.63	15/120	—	Moscow, Russia U.S.S.R.
15.285	19.63	20	ORU	Wavre Belgium
15.285	19.63	100	OLR	Podebrady Czechoslovakia
15.285	19.63	35	—	Salonika (V.o.A.) Greece
15.285	19.63	20/80	WRUL	Boston, Mass. U.S.A.
15.290	19.62	6	LRU I	Buenos Aires Argentina
15.290	19.62	35/100	—	Tangier (V.o.A.) Morocco
15.290	19.62	50/200	KCBR	Delano, Cal. U.S.A.
15.290	19.62	110	WLWO	Cincinnati, Ohio U.S.A.
15.290	19.62	50/200	KNBH	Dixon, Cal. U.S.A.
15.290	19.62	15/120	—	Moscow, Russia U.S.S.R.
15.290	19.62	5/100	HVJ	Vatican City Vatican City
15.293	19.62	15/240	—	Peking China
15.295	19.61	100	OLR	Podebrady Czechoslovakia
15.295	19.61	100	—	Allouis France
15.295	19.61	35/100	—	Tangier (V.o.A.) Morocco
15.295	19.61	15/120	—	Moscow, Russia U.S.S.R.
15.300	19.61	7.5/100	—	Tebrau Malaya
15.300	19.61	35/100	—	Tangier (V.o.A.) Morocco
15.300	19.61	50/100	GWR	Overseas Service* U.K.
15.300	19.61	15/120	—	Moscow, Russia U.S.S.R.
15.301	19.61	2	DZH9	Manila, Luzon Philippines
15.305	19.60	50/100	APK	Karachi Pakistan
15.305	19.60	100	HER6	Schwarzenburg Switzerland
15.305	19.60	15/120	—	Moscow, Russia U.S.S.R.
15.306	19.60	4/50	FZI	Brazzaville Congo Republic
15.310	19.60	20/100	VUD	Delhi India
15.310	19.60	7.5/100	—	Tebrau Malaya
15.310	19.60	35/100	—	Tangier (V.o.A.) Morocco
15.310	19.60	50/100	GSP	Overseas Service* U.K.
15.313	19.60	15/240	—	Peking China
15.315	19.59	50/100	VLA/D	Shepparton, Victoria Australia
15.315	19.59	35	—	Salonika (V.o.A.) Greece
15.315	19.59	20	—	Paradys South Africa
15.315	19.59	100	HEU6	Schwarzenburg Switzerland
15.315	19.59	50/200	KCBR	Delano, Cal. U.S.A.
15.315	19.59	15/120	—	Moscow, Russia U.S.S.R.
15.320	19.58	50/100	VLA/D	Shepparton, Victoria Australia
15.320	19.58	50	CKCS	Sackville, N.B. Canada
15.320	19.58	35/100	—	Tangier (V.o.A.) Morocco
15.320	19.58	—	—	Kaunas, Lithuania U.S.S.R.
15.325	19.58	50/100	12RO	Rome Italy
15.325	19.58	50/100	JOB15	Tokio Japan
15.325	19.58	50	WBOU	Bound Brook, N.J. U.S.A.
15.325	19.58	50	WDSI	Brentwood, N.Y. U.S.A.
15.325	19.58	15/120	—	Moscow, Russia U.S.S.R.
15.330	19.57	50/100	—	Cairo Egypt
15.330	19.57	100	—	Allouis France
15.330	19.57	100	—	Honolulu (V.o.A.) Hawaii
15.330	19.57	35/100	—	Tangier (V.o.A.) Morocco
15.330	19.57	50	WBOU	Bound Brook, N.J. U.S.A.



Mc/s	Metres	kW	Call	Station and Country	Station and Country
15.330	19.57	100	WLWO	Cincinnati, Ohio	U.S.A.
15.330	19.57	25/100	WGEO	Schenectady, N.Y.	U.S.A.
15.330	19.57	15/120	—	Moscow, Russia	U.S.S.R.
15.335	19.56	100	ORU	Wavre	Belgium
15.335	19.56	20	ZYU68	Porto Alegre	Brazil
15.335	19.56	5	—	Luxembourg	Luxembourg
15.335	19.56	50	APK	Karachi	Pakistan
15.335	19.56	8/100	—	Manila, Luzon (V.o.A.)	Philippines
15.335	19.56	25	—	Komsomolsk, Russia	U.S.S.R.
15.340	19.56	20	BED37	Taipei	Formosa
15.340	19.56	8/100	—	Munich (V.o.A.)	Germany (West)
15.340	19.56	35/100	—	Tangier (V.o.A.)	Morocco
15.340	19.56	50/200	KCBR	Delano, Cal.	U.S.A.
15.340	19.56	15/120	—	Moscow, Russia	U.S.S.R.
15.343	19.55	15/240	—	Peking	China
15.345	19.55	1	ETAA	Addis Ababa	Ethiopia
15.345	19.55	3.5/50	BED57	Taipei	Formosa
15.345	19.55	7.5	—	Athens	Greece
15.345	19.55	35/100	—	Tangier (V.o.A.)	Morocco
15.346	19.55	5	LRA33	Buenos Aires	Argentina
15.350	19.54	15/240	—	Peking	China
15.350	19.54	100	—	Allouis	France
15.350	19.54	50	WDSI	Brentwood, N.Y.	U.S.A.
15.350	19.54	100	WLWO	Cincinnati, Ohio	U.S.A.
15.350	19.54	15/120	—	Moscow, Russia	U.S.S.R.
15.357	19.53	1	4VWI	Cap Haitien	Haiti
15.360	19.53	7.5/100	—	Tebrau	Malaya
15.360	19.53	50/100	—	Overseas Service*	U.K.
15.360	19.53	15/120	—	Moscow, Russia	U.S.S.R.
15.365	19.53	50	—	Rangoon	Burma
15.365	19.53	10/100	—	Lopik	Netherlands
15.370	19.52	25	ZYC9	Rio de Janeiro	Brazil
15.370	19.52	15/240	—	Peking	China
15.370	19.52	8/100	—	Munich (V.o.A.)	Germany (West)
15.375	19.51	20/100	DMQ15	Jülich	Germany (West)
15.3	5 19.51	50/100	—	Overseas Service*	U.K.
15.380	19.51	35/100	—	Tangier (V.o.A.)	Morocco
15.380	19.51	35	—	Okinawa (V.o.A.)	Okinawa Island
15.380	19.51	100	—	Lisbon	Portugal
15.380	19.51	20/80	WRUL	Boston, Mass.	U.S.A.
15.385	19.49	20	—	Kabul	Afghanistan
15.385	19.49	8/100	—	Munich (V.o.A.)	Germany (West)
15.385	19.49	50	DZF3	Manila	Philippines
15.385	19.49	15/120	—	Moscow, Russia	U.S.S.R.
15.386	19.49	50/100	—	Cairo	Egypt
15.390	19.49	50/100	—	Overseas Service*	U.K.
15.390	19.49	40	—	Kiev, Ukraine	U.S.S.R.
15.390	19.49	10	CXA60	Montevideo	Uruguay
15.392	19.49	50	—	Quito	Ecuador
15.392	19.49	1	4VEH	Cap Haitien	Haiti
15.400	19.48	100	—	Allouis	France
15.400	19.48	50/100	—	Rome	Italy
15.400	19.48	35/100	—	Tangier (V.o.A.)	Morocco
15.400	19.48	50/100	—	Overseas Service*	U.K.

Mc/s	Metres	kW	Call	Station and Country	
17 880	16.78	50/100	—	Overseas Service*	U.K.
17.880	16.78	50	WBOU	Bound Brook, N.J.	U.S.A.
17.880	16.78	110	WLWO	Cincinnati, Ohio	U.S.A.
17.880	16.78	50	—	Komsomolsk, Russia	U.S.S.R.
17.880	16.78	15/120	—	Moscow, Russia	U.S.S.R.
17.885	16.78	4/50	FZI	Brazzaville	Congo Republic
17.885	16.78	20/80	WRUL	Boston, Mass.	U.S.A.
17.885	16.78	15/120	—	Moscow, Russia	U.S.S.R.
17.890	16.77	7.5/100	—	Tebrau	Malaya
17.890	16.77	7.5	APD	Dacca	Pakistan
17.890	16.77	50/100	GVO	Overseas Service*	U.K.
17.895	16.76	100	OLR	Podebrady	Czechoslovakia
17.895	16.76	30	HCG	Quito	Ecuador
17.895	16.76	8/100	—	Munich (V.o.A.)	Germany (West)
17.895	16.76	50/100	CSA 3	Lisbon	Portugal
17.895	16.76	50	HLK9	Seoul	South Korea
17.895	16.76	40	—	Kiev, Ukraine	U.S.S.R.
17.895	16.76	15/120	—	Moscow, Russia	U.S.S.R.
17.900	16.76	15/240	—	Peking	China
17.900	16.76	15/120	—	Moscow, Russia	U.S.S.R.
17.906	16.75	5	—	St. Georges, Grenada	Windward Is.
17.910	16.75	15/120	—	Moscow, Russia	U.S.S.R.
17.920	16.74	50/100	—	Cairo	Egypt
18.640	16.10	20	—	Kabul	Afghanistan
19.630	15.28	15/120	—	Moscow, Russia	U.S.S.R.
19.980	15.02	8/100	—	Munich (V.o.A.)	Germany (West)
20.013	14.99	8/100	—	Munich (V.o.A.)	Germany (West)
20.060	14.96	8/100	—	Munich (V.o.A.)	Germany (West)
20.090	14.93	15/120	—	Moscow, Russia	U.S.S.R.
21.450	13.99	100	OLR	Podebrady	Czechoslovakia
21.455	13.98	10/100	VUM	Madras	India
21.455	13.98	35/100	—	Tangier (V.o.A.)	Morocco
21.460	13.98	20/80	WRUL	Boston, Mass.	U.S.A.
21.460	13.98	50/200	KCBR	Delano, Cal.	U.S.A.
21.470	13.97	7.5/100	—	Tebrau	Malaya
21.470	13.97	50/100	GSH	Overseas Service*	U.K.
21.470	13.97	15/120	—	Moscow, Russia	U.S.S.R.
21.475	13.97	15/120	—	Moscow, Russia	U.S.S.R.
21.480	13.97	10/100	—	Lopik	Netherlands
21.485	13.96	5	—	Athens	Greece
21.485	13.96	7.5/100	—	Tebrau	Malaya
21.485	13.96	110	WLWO	Cincinnati, Ohio	U.S.A.
21.490	13.96	100	—	Allouis	France
21.490	13.96	20/100	DMQ21	Jülich	Germany (West)
21.490	13.96	50	APK	Karachi	Pakistan
21.490	13.96	50/100	—	Overseas Service*	U.K.
21.492	13.95	15/120	—	Moscow, Russia	U.S.S.R.
21.495	13.95	100	CSA67	Lisbon	Portugal
21.499	13.95	4/50	FZI	Brazzaville	Congo Republic
21.500	13.95	8/100	—	Manila, Luzon (V.o.A.)	Philippines
21.500	13.95	20/80	WRUL	Boston, Mass.	U.S.A.
21.500	13.95	50	WDSI	Brentwood, N.Y.	U.S.A.
21.500	13.95	15/120	—	Moscow, Russia	U.S.S.R.
21.505	13.95	15/120	—	Moscow, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
21.510	13.95	100	ORU	Wavre	Belgium
21.510	13.95	20/100	VUD	Delhi	India
21.512	13.94	2	DZ18	Manila, Luzon	Philippines
21.515	13.94	20/100	VUD	Delhi	India
21.515	13.94	110	WLWO	Cincinnati, Ohio	U.S.A.
21.515	13.94	5/100	HVJ	Vatican City	Vactian City
21.520	13.94	100	HER8	Schwarzenburg	Switzerland
21.530	13.93	50/100	GSJ	Overseas Service*	U.K.
21.531	13.93	20	ELWA	Monrovia	Liberia
21.530	13.93	15/120	—	Moscow, Russia	U.S.S.R.
21.530	13.93	5/100	HVJ	Vatican City	Vatican City
21.540	13.93	50/100	VLA/D	Shepparton, Victoria	Australia
21.540	13.93	50	WBOU	Bound Brook, N.J.	U.S.A.
21.550	13.92	50/100	GST	Overseas Service*	U.K.
21.555	13.92	15/120	—	Moscow, Russia	U.S.S.R.
21.560	13.91	50/100	—	Rome	Italy
21.560	13.91	20	—	Damascus	Syria
21.570	13.91	10/100	VUM	Madras	India
21.570	13.91	50/100	APK	Karachi	Pakistan
21.570	13.91	50	WBOU	Bound Brook, N.J.	U.S.A.
21.570	13.91	15/120	—	Moscow, Russia	U.S.S.R.
21.575	13.91	15/120	—	Moscow, Russia	U.S.S.R.
21.580	13.90	100	—	Allouis	France
21.580	13.90	20/100	VUD	Delhi	India
21.585	13.90	10/100	VUB	Bombay	India
21.590	13.90	50/100	APK	Karachi	Pakistan
21.590	13.90	25/100	WGEO	Schenectady, N.Y.	U.S.A.
21.600	13.89	50/100	VLA/D	Shepparton, Victoria	Australia
21.600	13.89	50	CKRP	Sackville, N.B.	Canada
21.605	13.88	20/100	VUD	Delhi	India
21.605	13.88	100	HE19	Schwarzenburg	Switzerland
21.610	13.88	110	WLWO	Cincinnati, Ohio	U.S.A.
21.610	13.88	—	—	Leningrad, Russia	U.S.S.R.
21.610	13.88	15/120	—	Moscow, Russia	U.S.S.R.
21.615	13.87	50/100	—	Overseas Service*	U.K.
21.620	13.87	7.5	—	Colombo	Ceylon
21.620	13.87	100	—	Allouis	France
21.620	13.87	20/100	VUD	Delhi	India
21.620	13.87	50/100	JOB21	Tokio	Japan
21.621	13.87	4/50	FZI	Brazzaville	Congo Republic
21.630	13.87	50/100	APK	Karachi	Pakistan
21.630	13.87	50/100	GVT	Overseas Service*	U.K.
21.630	13.87	50/200	KCBR	Delano, Cal.	U.S.A.
21.630	13.87	50	—	Komsomolsk, Russia	U.S.S.R.
21.633	13.87	7.5	APD	Dacca	Pakistan
21.640	13.86	50/100	GRZ	Overseas Service*	U.K.
21.640	13.86	—	—	Leningrad, Russia	U.S.S.R.
21.650	13.86	20/100	DMQ21	Jülich	Germany (West)
21.650	13.86	10/100	VUB	Bombay	India
21.650	13.86	50	WDSI	Brentwood, N.Y.	U.S.A.
21.655	13.85	7.5/100	—	Tebrau	Malaya
21.655	13.85	8/100	—	Manila, Luzon (V.o.A.)	Philippines
21.656	13.85	100	OLR	Podebrady	Czechoslovakia
21.660	13.85	50/100	MCX	Overseas Service*	U.K.

## Geographical List of Short-wave Stations of the World

	Mc/s		Mc/s		Mc/s
ADEN		Nova Lisboa	7.152	Shepparton, Vic.	21.600
Kormaksar	7.170	"  "	11.924	"  "	21.680
AFGHANISTAN		Sa da Bandeira	5.024	"  "	25.675
Kabul	9.973	"  "	9.755	"  "	25.735
"	15.385	Silva Porto	4.842	Sydney, N.S.W.	6.090
"	18.640				
AFRICA,		ARGENTINA		AUSTRIA	
FRENCH WEST		Buenos Aires	5.986	Vienna	5.985
(See Dahomey, Ivory		"	6.065	"	6.155
Coast, Senegal, Sudan		"	6.090	"	7.135
and Togoland)		"	6.120	"	7.245
AFRICA,		"	6.180	"	9.505
PORT. EAST		"	9.660	"	9.615
(See Mozambique)		"	9.690	"	9.665
AFRICA,		"	9.740	"	11.775
PORT. WEST		"	9.760	"	11.785
(See Angola)		"	11.880	"	11.935
ALBANIA		"	15.290	"	17.795
Scutari	8.215	"	15.346	"	25.615
Tirana	7.157	AUSTRALIA		AZORES	
"	7.848	Brisbane, Qld.	4.920	Punta Delgada	4.867
ALGERIA		"	9.660	BALI	
Algiers	6.122	Lyndhurst, Vic.	6.150	(See Indonesia)	
"	6.151	"	9.680	BELGIUM	
"	6.160	"	11.760	Wavre	9.705
"	7.115	"	11.880	"	9.745
"	7.135	"	15.210	"	9.767
"	9.685	"	15.230	"	11.720
"	9.750	Perth, W.A.	4.897	"	11.850
"	11.751	"	6.140	"	11.850
"	11.821	"	9.610	"	15.285
"	11.835	"	11.840	"	15.335
ANDORRA		"	15.425	"	17.845
Andorra	3.605	Shepparton, Vic.	7.220	"	17.845
"	5.990	"	9.500	"	21.510
"	6.306	"	9.580	"	21.716
ANGOLA		"	9.615	"	21.730
Benguela	5.042	"	11.710	BOLIVIA	
"	9.502	"	11.740	Cochabamba	6.160
Dondo	4.770	"	11.770	La Paz	6.150
Lobito	5.033	"	11.810	"	9.555
Luanda	4.855	"	15.160	BORNEO	
"	4.868	"	15.200	(See Indonesia)	
"	4.954	"	15.220	BORNEO, BRIT. N.	
"	9.632	"	15.240	Jesselton	4.970
"	11.862	"	15.315	"	5.980
"	17.795	"	15.320	"	6.090
Lubango	5.022	"	17.790	"	7.180
Mossamedes	7.230	"	17.800	"	7.240
Nova Lisboa	4.852	"	17.840	"	9.660
		"	17.855	"	9.740
		"	21.540	"	

BRAZIL		Mc/s	Mc/s	Mc/s
Aparecida		3.285	Sao Luiz	4.975
"		9.635	Sao Paulo	4.755
Bahia		3.345	" "	5.955
Belem		4.865	" "	6.025
Belo Horizonte		6.000	" "	6.035
"		15.190	" "	6.055
Curityba		6.045	" "	6.095
"		9.545	" "	6.115
Espirito Santo		5.055	" "	6.165
Fortaleza		6.105	" "	6.185
"		15.165	" "	9.505
Goiana		4.995	" "	9.585
"		9.755	" "	9.620
"		11.815	" "	9.685
Macara		4.815	" "	9.745
Manaos		4.805	" "	11.765
"		4.895	" "	11.924
Natal		4.925	" "	11.965
Nitheroy		6.195	" "	15.135
Paraiba		3.325	" "	15.155
Pocos de Caldas		4.885	" "	17.705
"		9.645		
Porto Alegre		6.135	<b>BULGARIA</b>	6.070
"		9.675	Sofia	7.255
"		11.785	"	7.670
"		15.335	"	9.502
Recife		3.265	"	9.700
"		6.015	"	16.460
"		6.085	"	26.000
"		9.565		
"		11.825	<b>BURMA</b>	
"		11.865	Rangoon	4.795
"		15.145	"	6.035
Rio de Janeiro		4.905	"	7.118
"		5.015	"	9.614
"		5.045	"	11.765
"		6.065	"	15.365
"		6.147		
"		9.295	<b>CAMBODIA</b>	
"		9.575	(See Indo-China)	
"		9.610	<b>CAMEROONS</b>	
"		9.705	Duala	6.115
"		9.720	Garoua	9.900
"		9.775	Yaounde	4.975
"		11.720		
"		11.735	<b>CANADA</b>	
"		11.775	Halifax, N.S.	6.130
"		11.935	Montreal,	
"		11.950	Quebec	6.005
"		15.370	Sackville, N.B.	5.970
"		17.850	" "	6.060
"		17.875	" "	6.090
Salvador		9.595	" "	6.160
"		11.875	" "	9.585
"		15.225	" "	9.610
Sao Luiz		4.785	" "	9.630
			" "	9.710
			Sackville, N.B.	11.705
			" "	11.720
			" "	11.760
			" "	11.900
			" "	11.945
			" "	15.090
			" "	15.105
			" "	15.190
			" "	15.255
			" "	15.320
			" "	17.710
			" "	17.735
			" "	17.820
			" "	17.865
			" "	21.595
			" "	21.600
			" "	21.710
			Sydney, N.S.	6.010
			Toronto, Ont.	6.070
			Vercheres,	
			Quebec	11.720
			Winnipeg,	
			Manitoba	6.150
			" "	11.720
			<b>CANARY IS.</b>	
			Las Palmas	9.475
			Teneriffe	7.295
			<b>CAPE VERDE IS.</b>	
			Praia	3.960
			Sao Vicente	3.955
			<b>CEBU</b>	
			(See Philippines)	
			<b>CELEBES</b>	
			(See Indonesia)	
			<b>CEYLON</b>	
			Colombo	3.395
			"	4.870
			"	4.900
			"	4.940
			"	4.965
			"	5.020
			"	6.001
			"	7.110
			"	7.190
			"	7.240
			"	7.300
			"	9.520
			"	11.770
			"	11.835
			"	11.875
			"	11.975
			"	15.120
			"	15.230
			"	15.265

	Mc/s		Mc/s		Mc/s
Egypt—cont.		Allouis	7.220	Jülich	15.375
Cairo	9.795	"	7.240	"	15.405
"	9.805	"	7.245	"	17.845
"	11.664	"	9.540	"	17.875
"	11.710	"	9.550	"	21.490
"	11.985	"	9.560	"	21.650
"	15.330	"	9.585	"	21.725
"	15.386	"	9.620	"	25.900
"	15.415	"	9.628	Munich	3.980
"	15.475	"	9.635	"	6.085
"	17.920	"	9.648	"	6.100
ETHIOPIA		"	9.675	"	6.120
Addis Ababa	5.060	"	9.680	"	6.140
"	6.185	"	9.736	"	6.160
"	7.290	"	9.755	"	6.170
"	9.608	"	9.765	"	6.185
"	9.642	"	10.430	"	7.110
"	15.345	"	11.700	"	7.160
FIJI ISLANDS		"	11.740	"	7.250
Suva	3.980	"	11.845	"	7.295
FINLAND		"	11.900	"	9.545
Pori	6.120	"	11.920	"	9.630
"	9.555	"	15.120	"	9.670
"	15.190	"	15.131	"	11.710
"	17.797	"	15.185	"	11.760
FORMOSA		"	15.240	"	11.805
Taipei	5.955	"	15.295	"	11.830
"	5.985	"	15.330	"	11.840
"	5.995	"	15.350	"	11.920
"	6.105	"	15.400	"	11.960
"	7.235	"	15.425	"	15.155
"	7.300	"	17.715	"	15.160
"	7.340	"	17.740	"	15.200
"	7.340	"	17.765	"	15.205
"	9.575	"	17.780	"	15.210
"	9.775	"	17.850	"	15.220
"	11.815	"	17.892	"	15.230
"	11.840	"	21.490	"	15.280
"	11.968	"	21.580	"	15.340
"	15.225	"	25.790	"	15.370
"	15.235	GERMANY, EAST		"	15.385
"	15.340	Berlin	6.115	"	15.415
"	15.345	"	7.160	"	15.440
"	15.435	Leipzig	9.728	"	15.520
"	17.754	GERMANY, WEST		"	15.875
FRANCE		Bad Durrheim	7.265	"	17.735
Allouis	3.940	Berlin	6.005	"	17.895
"	3.965	Jülich	7.170	"	19.980
"	5.965	"	7.205	"	20.060
"	6.045	"	7.290	"	21.013
"	6.175	"	9.630	Norden	3.970
"	6.200	"	9.640	"	5.980
"	7.050	"	9.735	"	6.075
"	7.105	"	11.795	"	15.275
"	7.160	"	11.945	Stuttgart	6.030

	Mc/s		Mc/s		Mc/s
GHANA		GUIANA, BRITISH		HUNGARY	
Accra	3.365	Georgetown	3.255	Budapest	6.195
"	4.915	"	5.981	"	7.222
"	9.640	"		"	9.832
GOA		GUIANA, DUTCH		"	11.911
Goa	4.886	Paramaribo	15.407	ICELAND	
"	4.930	GUINEA		Reykjavik	12.175
"	6.025	REPUBLIC		INDIA	
"	9.610	Conakry	4.910	Bhopal	3.315
GREECE		"	6.155	"	4.820
Athens	5.960	GUINEA, PORT.		"	4.840
"	6.073	Bissao	3.975	"	4.940
"	7.420	GUINEA, SPANISH		"	5.990
"	9.606	Santa Isabel	7.160	"	7.160
"	11.715	HAITI		"	9.670
"	15.345	Cap Haitien	6.000	Bombay	4.840
"	17.773	"	6.135	"	6.150
"	21.485	"	6.156	"	7.240
Salonika	6.015	"	9.602	"	9.550
"	6.155	"	9.644	"	11.895
"	7.205	"	9.648	"	11.955
"	7.260	"	15.357	"	15.270
"	7.265	"	15.392	"	21.585
"	9.520	Les Gonaires	5.060	"	21.650
"	9.530	Port au Prince	6.012	"	21.700
"	9.585	"	6.200	Calcutta	3.245
"	11.845	"	9.544	"	3.305
"	11.850	"		"	6.010
"	11.880	"		"	7.210
"	11.895	HAWAII		"	9.530
"	15.285	Honolulu	9.650	Delhi	4.815
"	15.315	"	11.775	"	4.820
"	17.800	"	11.850	"	4.860
"	17.810	"	15.150	"	4.960
"		"	15.330	"	5.990
GREENLAND		HONDURAS, BRIT.		"	6.040
Godthaab	9.525	Belize	3.300	"	6.060
GRENADA		"	4.950	"	6.190
(See Windward Is.)		"	6.100	"	7.105
GUATEMALA		HONDURAS		"	7.120
Guatemala City	5.952	REPUBLIC		"	7.125
"	5.979	Comayaguela	6.105	"	7.130
"	5.990	San Pedro Sula	5.973	"	7.135
"	6.031	"	5.995	"	7.140
"	6.057	"	6.061	"	7.165
"	6.101	"	6.124	"	7.180
"	6.180	Tegucigalpa	5.851	"	7.200
"	9.666	"	5.875	"	7.230
"	9.760	"	6.087	"	7.260
"	11.850	Tela	6.035	"	7.275
"	15.170	HONG KONG		"	7.285
Quezaltenango	6.115	Victoria	3.940	"	7.290
"	6.200	"		"	7.295
"		"		"	9.505

	Mc/s		Mc/s		Mc/s
<b>Peru—cont.</b>		<b>Warsaw</b>	9.525	<b>RUMANIA</b>	
Lima	15.169	"	9.539	Bucharest	6.210
"	15.410	"	9.585	"	7.195
		"	9.595	"	9.255
<b>PHILIPPINES</b>		"	9.635	"	9.570
Cebu	6.140	"	9.685	"	11.935
Manila, Luzon	3.345	"	10.080	"	15.250
"	6.000	"	11.707		
"	6.030	"	11.740	<b>ST. THOMAS I.</b>	
"	6.080	"	11.770	Sao Thome	4.804
"	6.120	"	11.814		
"	6.170	"	11.905	<b>SALVADOR</b>	
"	9.550	"	15.120	San Salvador	4.739
"	9.590	"	15.274	"	6.010
"	9.600	"	17.780	"	6.190
"	9.620	"	17.800	"	6.216
"	9.640	"		"	9.552
"	9.645	<b>PORTUGAL</b>		Santa Ana	4.798
"	9.700	Lisbon	3.950	"	5.980
"	9.730	"	5.960		
"	9.750	"	6.080	<b>SAMOA</b>	
"	11.735	"	6.152	Apia	6.040
"	11.765	"	6.373		
"	11.790	"	9.635	<b>SARAWAK</b>	
"	11.855	"	9.735	Kuching	4.760
"	11.920	"	11.840	"	4.860
"	11.960	"	15.086	"	4.950
"	15.125	"	15.100	"	5.053
"	15.125	"	15.125	"	9.565
"	15.185	"	15.150	"	9.655
"	15.200	"	15.380		
"	15.210	"	17.880	<b>SAUDI ARABIA</b>	
"	15.245	"	17.890	Jidda	3.960
"	15.270	"	21.490	"	5.965
"	15.301	"	21.700	"	5.974
"	15.335	"		"	6.101
"	15.385	<b>REUNION ISLAND</b>		"	6.127
"	17.750	St. Denis	3.380	"	7.132
"	17.805	"	4.820	"	9.650
"	17.830	"	7.170	"	9.931
"	21.500	"		"	10.076
"	21.512	<b>RHODESIA-</b>		"	11.750
"	21.655	<b>NYASALAND FED.</b>		"	11.846
"	25.700	Lusaka	3.915	"	11.950
		"	4.826		
		"	4.895	<b>SENEGAL</b>	
		"	4.911	Dakar	4.893
<b>POLAND</b>		"	4.964	"	4.950
Stettin	3.978	"	7.170	"	5.960
Warsaw	5.910	"	7.285	"	7.171
"	5.953	"	7.325	"	7.210
"	5.970	"	9.580	"	9.562
"	5.975	"	9.710	"	11.899
"	6.075	"	11.822	"	15.225
"	6.196	"	11.882	Saint Louis	6.045
"	6.850	"			
"	7.125	Salisbury	2.425	<b>SIERRA LEONE</b>	
"	7.145	"	3.395	Freetown	3.316
"	7.295	"	6.018	"	9.630



	Mc/s		Mc/s		Mc/s
<b>SOLOMON IS.</b>		Madrid	11.817	<b>SYRIA</b>	
Honiara	5.960	"	11.986	Damascus	5.928
		"	15.422	"	6.165
<b>SOMALIA</b>		Malaga	6.171	"	7.145
Mogadishu	4.978	Valencia	6.995	"	7.238
"	7.073	Valladolid	7.005	"	9.555
				"	11.664
<b>SOMALILAND,</b>		<b>SUDAN</b>		"	11.750
<b>BRITISH</b>		Khartoum	5.007	"	11.915
Hargeisa	4.763	"	5.038	"	15.165
"	7.127	"	9.613	"	17.860
"	9.667	"	11.855	"	21.560
		"	11.882	"	
<b>SOMALILAND,</b>		<b>SUDAN, FRENCH</b>		<b>TAHITI</b>	
<b>FRENCH</b>		Bamako	4.835	Papeete	6.135
Djibouti	4.780			"	11.825
		<b>SUMATRA (See</b>		<b>TAIWAN (See</b>	
<b>SOUTH AFRICA</b>		Indonesia)		Formosa)	
Paradys	3.290	<b>SURINAM (See</b>		<b>TANGANYIKA</b>	
"	3.316	Guiana, Dutch)		Dar-es-Salaam	5.050
"	3.356			"	7.167
"	3.375	<b>SWEDEN</b>		<b>TANGIER</b>	
"	4.800	Hörby	6.065	(See Morocco)	
"	4.810	"	6.095	<b>THAILAND</b>	
"	4.875	"	7.210	Bangkok	4.830
"	4.895	"	9.535	"	6.070
"	4.945	"	9.620	"	7.105
"	7.230	"	11.705	"	11.671
"	7.275	"	11.810	"	15.600
"	7.295	"	11.880		
"	9.523	"	15.155	<b>TOGOLAND</b>	
"	9.680	"	15.240	Lome	5.036
"	9.720	"	15.240		
"	11.750	"	17.770	<b>TRIPOLITANIA</b>	
"	11.840	"	17.840	(See Libya)	
"	11.890	Motala	7.270	<b>TURKEY</b>	
"	11.945			Ankara	7.285
"	15.205	<b>SWITZERLAND</b>		"	9.464
"	15.230	Schwarzenburg	3.955	"	9.515
"	15.315	"	3.985	"	9.743
"	25.760	"	6.165	"	15.160
"	25.801	"	7.210	"	15.195
		"	9.520	"	17.823
<b>SPAIN</b>		"	9.535	Istanbul	7.031
Madrid	5.976	"	9.545		
"	6.130	"	9.655	<b>U.K.</b>	
"	6.146	"	9.665	Overseas	
"	7.105	"	11.865	Service*	3.952
"	9.360	"	15.305	"	3.975
"	9.370	"	15.315	"	5.975
"	9.390	"	17.784	"	5.990
"	9.585	"	17.795	"	6.010
"	9.610	"	21.520	"	6.035
"	9.675	"	21.605	"	
"	9.695	"		"	

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

U.S.S.R.—cont.	Mc/s	Moscow, Russia	Mc/s	Moscow, Russia	Mc/s
Komsomolsk, Russia	6.020	" "	7.135	" "	9.715
" "	6.050	" "	7.140	" "	9.745
" "	7.285	" "	7.145	" "	9.750
" "	9.669	" "	7.155	" "	9.760
" "	11.692	" "	7.175	" "	9.765
" "	11.754	" "	7.185	" "	9.770
" "	15.235	" "	7.215	" "	9.780
" "	15.335	" "	7.230	" "	9.800
" "	17.880	" "	7.235	" "	9.810
" "	21.630	" "	7.245	" "	9.850
Krasnoyarsk, Russia	5.290	" "	7.265	" "	9.880
" "		" "	7.270	" "	11.570
Leningrad, Russia	9.790	" "	7.280	" "	11.690
" "	11.630	" "	7.285	" "	11.710
" "	21.610	" "	7.290	" "	11.715
" "	21.640	" "	7.300	" "	11.720
" "		" "	7.310	" "	11.730
Magadan, Russia	4.995	" "	7.325	" "	11.750
" "	7.270	" "	7.330	" "	11.755
Moscow, Russia	3.936	" "	7.340	" "	11.760
" "	5.210	" "	7.350	" "	11.770
" "	5.270	" "	7.360	" "	11.780
" "	5.455	" "	7.365	" "	11.785
" "	5.915	" "	7.375	" "	11.790
" "	5.940	" "	7.380	" "	11.800
" "	5.960	" "	7.385	" "	11.805
" "	5.965	" "	7.390	" "	11.850
" "	5.975	" "	7.420	" "	11.865
" "	5.985	" "	7.440	" "	11.870
" "	6.000	" "	7.925	" "	11.875
" "	6.040	" "	9.149	" "	11.890
" "	6.060	" "	9.210	" "	11.900
" "	6.065	" "	9.450	" "	11.905
" "	6.075	" "	9.470	" "	11.925
" "	6.090	" "	9.480	" "	11.930
" "	6.120	" "	9.490	" "	11.940
" "	6.125	" "	9.500	" "	11.945
" "	6.133	" "	9.510	" "	11.960
" "	6.150	" "	9.535	" "	11.965
" "	6.155	" "	9.545	" "	11.975
" "	6.165	" "	9.555	" "	11.980
" "	6.180	" "	9.559	" "	11.985
" "	6.195	" "	9.580	" "	12.000
" "	6.200	" "	9.585	" "	12.005
" "	6.930	" "	9.595	" "	12.020
" "	6.975	" "	9.605	" "	12.075
" "	6.980	" "	9.615	" "	12.100
" "	7.095	" "	9.620	" "	12.175
" "	7.100	" "	9.625	" "	14.260
" "	7.105	" "	9.650	" "	14.440
" "	7.115	" "	9.680	" "	14.860
" "	7.120	" "	9.690	" "	15.008
" "		" "	9.700	" "	15.045
" "		" "	9.710	" "	15.053

U.S.S.R.—cont.	Mc/s	Moscow, Russia	Mc/s		Mc/s
Moscow, Russia	15.060	Moscow, Russia	17.765	Ulan Ude,	
"	15.090	"	17.780	Russia	6.135
"	15.100	"	17.785	Vladivostok,	
"	15.105	"	17.790	Russia	5.016
"	15.110	"	17.795	Yakutsk, Russia	4.534
"	15.135	"	17.810		
"	15.150	"	17.815	UGANDA	
"	15.155	"	17.825	Kampala	5.026
"	15.160	"	17.830	"	7.110
"	15.165	"	17.840	"	9.590
"	15.175	"	17.850		
"	15.180	"	17.860	URUGUAY	
"	15.190	"	17.865	Montevideo	6.000
"	15.195	"	17.870	"	6.035
"	15.200	"	17.875	"	6.055
"	15.205	"	17.880	"	6.075
"	15.210	"	17.885	"	6.130
"	15.225	"	17.895	"	6.156
"	15.230	"	17.900	"	6.170
"	15.235	"	17.910	"	9.516
"	15.240	"	19.630	"	9.620
"	15.245	"	20.090	"	11.735
"	15.260	"	21.470	"	11.835
"	15.265	"	21.475	"	11.887
"	15.270	"	21.492	"	11.896
"	15.280	"	21.500	"	15.390
"	15.290	"	21.505		
"	15.295	"	21.530	VATICAN CITY	
"	15.300	"	21.555	Vatican City	3.955
"	15.305	"	21.570	"	6.005
"	15.315	"	21.575	"	6.190
"	15.325	"	21.610	"	7.250
"	15.330	"	21.670	"	7.280
"	15.340	"	21.680	"	9.645
"	15.350	Murmansk,		"	9.660
"	15.360	Russia	14.780	"	11.685
"	15.395	Novosibirsk,		"	11.740
"	15.400	Russia	5.225	"	15.120
"	15.410	Petropavlovsk,		"	15.290
"	15.420	Russia	4.055	"	17.735
"	15.425	"	5.050	"	17.840
"	15.430	"	6.080	"	21.515
"	15.440	"	15.140	"	21.530
"	15.445	Petrozavodsk,		"	21.740
"	15.470	Karelia	5.065	"	25.775
"	16.250	"	6.055	VENEZUELA	
"	16.270	Stalinabad,		Barcelona	3.385
"	17.525	Tadzhik	4.634	Barquisimeto	4.850
"	17.700	"	7.330	"	4.940
"	17.720	Tashkent,		"	4.989
"	17.735	Uzbek	5.925	"	9.506
"	17.740	"	6.825	Cabimas	2.490
"	17.745	"	7.100	Caracas	3.245
"	17.750	"	11.690	"	3.305
"	17.755	Tiflis, Georgia	5.040	"	3.345

Mc/s	kW	Station and Country	Mc/s	kW	Station and Country
(88.50)	—	Golfo Policastro I	89.15	15	Nordhelle (B.F.N.) GW
	—	Isernia I			
	6	M. Scuro I	89.20	0.1	Forssa Fd
	6	M. Serra I		—	Schwerin GE
	0.12	Noto I	89.25	—	Warsaw P
	0.24	Trapani I	89.30	1	Jerusalem Is
	60	Pontop Pike UK		0.08	Alleghie I
	60	Rowridge UK		—	Baragianq I
	—	Maribor Y		—	Chiavenna I
	0.35	Pohorje Y		0.1	Courmayeur I
88.53	55	Feldberg-Taunas GW		—	Farini d'Olmo I
88.54	50	Hamburg GW		0.6	Naples I
88.60	0.6	Paganella I		—	Ogliastra I
88.70	2	Lille-Ville F		120	Holme Moss UK
	—	Norcia I		8	Orkney UK
	1.2	Pomarico I	89.35	60	Kreuzberg GW
	—	S. Agata Goti I	89.36	50	Bourges-Neuvy F
	60	Blaen-Plwyf UK	89.40	0.35	Betzdorf GW
	60	Meldrum UK		18	Bremen GW
88.80	50	St. Pölten A		60	Hornisgrinde GW
	10	Schmittenhöhe A		1	Rotbühl GW
	60	Berlin GW		15	Borlänge Sw
	18	Burgstall GW		1	Brig Sd
	2	Göttingen GW		9	Monte Ceneri Sd
	15	Lingen GW	89.45	15	Flensburg GW
	4.5	Mühlacker GW	89.50	3	Tammisaari Fd
	1	Jerusalem Is		3	Genoa I
	11	Kristiansand No		0.03	Gorizia I
	0.75	M. Morello Sd		18	M. Sambuco I
88.85	0.1	Bad Mergentheim GW		1.6	Marca Pusteria I
	0.5	Brunswick GW		0.04	Mione I
88.90	10	Mikkeli Fd		—	Piraino I
	—	Leffe I		—	Pontassieve I
	1.2	M. Favone I	89.60	—	Alkmaar-Winkel Ne
	6	M. Limbara I		9	Llanddona UK
	—	Maranza I		11	Rosemarkie UK
	—	Pantelleria I	89.69	90	Hoher Meissner GW
	—	S. Maria a Vico I	89.70	50	Pfänder A
	3	Luxembourg L		50	Metz-Luttange F
	6	Llangollen UK		0.5	Berchtesgaden GW
89.00	0.04	Bordighera I		0.5	Bonn GW
	0.08	La Spezia I		15	Dannenberg GW
	30	M. Venda I		0.5	Hardberg GW
	0.04	Polcevera I		20	Hühnerberg GW
89.05	3	Traunstein GW		—	Alghero I
89.10	50	Aalen GW		—	Bagno di Romagna I
	0.07	Hochrhein GW		—	Cascia I
	50	Langenberg (B.F.N.) GW		—	Castro I
	0.04	Ascoli Piceno I		—	Col del Gallo I
	18	Martina Franca I		0.03	Garfagnana I
	—	Pizzo I		0.8	Lagonegro I
	0.6	Sulmona I		18	Rome I
	120	Wrotham UK		0.04	Stazzona I
				—	Teulada I
				120	Norwich UK

Mc/s	kW	Station and Country	Mc/s	Station and Country
89.74	0.5	Würzburg GW	(90.30)	— M. Ortobene I
89.75	0.5	Cologne GW	— Pieve S. Stefano I	
89.80	—	Dresden GE	0.6	Plose I
	—	Katowice P	—	S. Maria de Leuca I
89.90	5	Aachen GW	0.08	Sassari I
	0.5	Baden-Baden GW	0.04	Spoletto I
	—	Bardi I	0.75	Valzeina Sd
	—	Bassa Val Lagarina I	60	N. Hessary Tor UK
	—	Castel-santangelo I	120	Sandale UK
	1.2	M. Soro I	90.35	50 Paris F
	18	M. Venda I	90.40	25 Oulu Fd
	—	Pinzolo I	90.50	60 Grünten GW
	—	Serra San Bruno I	—	Cassino I
	0.08	Teramo I	0.12	Fucino I
	—	Valle Crati I	—	Golfo Policastro I
	120	Kirk o'Shotts UK	—	Isernia I
89.95	120	Wenwoe UK	—	M. Capenardo I
90.00	—	Verdun (A.F.N.) F	6	M. Scuro I
	10	Berlin GW	6	M. Serra I
	3	Coburg GW	0.12	Noto I
	25	Haardtkopf GW	0.24	Trapani I
	15	Heide GW	120	Sutton Coldfield UK
	0.05	Monschau GW	90.60	2 Kiel GW
	100	Waldenburg GW	—	Borgo, Val di Taro I
	100	Wendelstein GW	0.06	Domodossola I
	0.25	Casablanca M	3	Milan I
	15	Norrköping Sw	0.6	Sondrio I
90.05	—	Novi Sad Y	60	Bjerkreim No
90.10	15	Koli Fd	3.3	Douglas UK
	10	Kristiina Fd	90.63	0.1 Stubnerkogel A
	0.12	Alcamo I	90.65	100 Teutoburger Wald GW
	0.6	Borgo Val Sugana I	90.70	0.7 Tampere Fd
	—	Cogne I	0.6	M. Bignone I
	—	Formia I	6	M. Serpeddi I
	6	M. Argentario I	—	Norcia I
	0.02	M. Celentone I	0.6	Paganella I
	0.6	M. Creo I	1.2	Pomarico I
	1.2	M. Vergine I	—	S. Agata Goti I
	0.04	Modica I	0.9	Terminillo I
	0.12	Mondovi I	60	Pontop Pike UK
	0.3	Potenza I	60	Rowridge UK
	2.4	Lisbon Pl	90.80	26 Copenhagen D
	60	Divis UK	90.85	12 Bamberg GW
	22	Peterborough UK	90.90	5 Hanover GW
	6	Thrumster UK	12	Hohe Linie GW
	1.5	Kum Y	2.5	Koblentz GW
90.20	60	Vestjylland D	5	Münster GW
	50	Langenberg GW	100	Stuttgart GW
	—	Parede P	3	Bologna I
90.30	0.5	Bad Reichenhall GW	—	Lefte I
	50	Verden (B.F.N.) GW	1.2	M. Favone I
	25	Weinbiet GW	—	M. S. Gullia I
	1	Jerusalem Is	—	Pantelleria I
	—	Campagna I	—	S. Maria a Vico I
	6	M. Conero I	—	Valle Crati I

Mc/s	kW	Station and Country	Mc/s	kW	Station and Country
(93.30)	30	Aalborg D	(93.70)	0.09	Rovereto I
	50	Metz-Luttange F		0.04	Val Gardena I
	—	Halle GE		120	Holme Moss UK
	15	Dannenberg GW		8	Orkney UK
	0.5	Hardberg GW	93.80	80	Oslo No
	25	Hoher Meissner GW	93.90	18	Dillberg GW
	0.03	Mainz GW		5	Hanover GW
	15	Norden-Osterloog GW		0.25	Heidelberg (A.F.N.)
	1	Tel Aviv Is			GW
	0.08	Alleghé I		15	Nordhelle GW
	—	Barragiano I		0.03	Bagni di Lucca I
	—	Farini d'Olmo I		3	Bologna I
	—	Lefte I		—	Chiavenna I
	—	Mercato Saraceno I		—	Gareasio I
	—	Morano Calabro I		2	M. St. Angelo I
	0.6	Naples I		1.2	M. Soro I
	6	P. Badde Urbara I		0.09	Pieve di Cadore I
	8	Voss No		—	Scarlino I
	6	Llangollen UK		0.12	Val Venosta I
	0.25	Vatican City V		—	Scheveningen Ne
93.40	0.5	Cologne GW		15	Gävle Sw
93.50	0.8	Aosta I		1	Brig Sd
	0.02	Brisighella I	94.00	10	Ylivieska Fd
	—	Castelnuovo nei Monti I		—	Inselsberg GE
	—	M. Capenardo I		9	Llanddona UK
	18	M. Sambuco I		11	Rosemarkie UK
	—	Piraino I	94.10	0.09	Casentino I
	0.6	Plose I		18	M. Faito I
	0.6	Sestriere I		0.3	Potenza I
	3	Trieste I		—	Teulada I
	—	Valle Crati I		—	Viggianello I
	0.1	Monte Carlo Mo		120	Norwich UK
	15	Mierlo Ne		1.5	Ljubljana Y
	15	Norrköping Sw	94.15	2	Kiel GW
	120	Wrotham UK	94.20	1	Berlin (B.F.N.) GW
93 60	10	Berlin GW		18	Pfaffenberg GW
	1	Feldberg/Schw. GW		100	Teutoburger Wald GW
	15	Heide GW		60	M. Penice I
	3	Osnabrück GW		15	Nässjö Sw
	100	Waldenburg GW		1.5	Les Ordonns Sd
	—	Tel Aviv Is	94.30	15	St. Pölten A
	15	Bremanger No		25	Turku Fd
	3	Varberg Sw		0.12	Alcama I
93.65	100	Wendelstein GW		0.6	Catanzaro I
93.70	10	Tampere Fd		—	Cogne I
	—	Cascia I		0.03	Lunigiana I
	—	Castro I		6	M. Argentario I
	—	Col de Courtil I		1.6	Marca Pusteria I
	—	Col Perer I		0.04	Modica I
	0.03	Garfagnana I		—	Ogliastro I
	3	Milan I		6	Pescara I
	—	Porretta Terme I		0.04	S. Marcello Pistoiese I
	18	Rome I		1	Tel Aviv Is
	—	Ronco Scrivia I		12	Lisbon Pl

Mc/s	kW	Station and Country	Mc/s	kW	Station and Country
(94.30)	120	Kirk o'Shotts UK	(94.90)	0.08	Villar Perosa I
	120	Wenvoe UK		15	Hoogezand Ne
94.40	0.6	Borgo Val Sugana I		1.5	Zagreb Y
	0.02	M. Celentone I	95.00	6	Strasbourg F
	0.6	Tolmezzo I		—	Opole P
94.50	30	Bornholm D	95.10	60	Sonderjylland D
	12	Bamberg GW		0.01	Agordo I
	2.5	Koblenz GW		0.6	Bolzano I
	5	Münster GW		2	Campo Imperatore I
	100	Stuttgart GW		3.2	Golfo Salerno I
	0.08	Asiago I		—	Minucciano I
	—	Civitella di Romagna I		—	Montese I
	—	Col de Joux I	0.04	S. Giuliana I	
	6	M. Beigua I		—	S. Lucia I
	—	Marradi I	0.3	Udine I	
	—	Monopoli I		—	Valle Isarco I
	—	Nusco I		—	Vernio I
	1.2	Roseto Capo Spulico I		4	Hulsberg Ne
	0.08	Sassari I		15	Skövde Sw
	0.9	Terminillo I		60	Bantiger Sd
	—	Tolmezzo I		1	Tarasp Sd
	60	Divis UK	95.18	—	Munich (A.F.N.) GW
	22	Peterborough UK	95.20	25	Vaasa Fd
	6	Thrumster UK		—	Rheinsberg GE
	0.35	Fruska/Goa Y		0.04	Borgo, Val di Taro I
94.60	40	Helsinki Fd		0.06	Domodossola I
	10	Kristiina Fd		0.6	Sondrio I
	—	Phalsbourg (A.F.N.) F	95.26	—	Caen (A.F.N.) F
	—	Brocken (Harz) GE	95.30	—	Arsiero I
	3	Borås Sw		0.09	Benevento I
94.70	0.6	Cortina I		0.6	Como I
	—	Firenzuola I		6	Gambarie I
	6	M. Caccia I		—	Larino I
	6	M. Lauro I		6	M. Limbara I
	18	M. Nerone I		—	Mercato Saraceno I
	0.04	Mione I		6	S. Cerbone I
	—	Pievepelago I		—	Torriglia I
	0.04	Stazzona I	95.37	55	Biedenkopf GW
	—	Teggiano I	95.40	50	Schöckl A
	120	Sandale UK		2	Brussels B
94.80	50	Salzburg A		50	Marseilles F
	5	Sydsjaelland D		100	Oldenburg GW
	1.5	Sool Sd		20	Potzberg GW
94.90	0.7	Iisalmi Fd		15	Halmstad Sw
	60	Feldberg/Ts (A.F.N.) GW		60	Säntis Sd
	—	Borgo S. Dalmazzo I	95.50	30	Lahti Fd
	0.8	Lagonegro I		—	Görlitz GE
	6	Palermo I		0.02	Brisighella I
	0.13	Plateau Rosa I		—	Busalla I
	—	Recoaro I		2	Campo Catino I
	0.6	Sezze I		—	Castelnuovo nei Monti I
	—	Susa I		1.2	Colle Visentin I
	0.12	Terni I	0.12	Gardone Val Trompia I	

Mc/s	kW	Station and Country	Mc/s	kW	Station and Country
(98.20)	18	Turin I	(99.10)	0.9	Campo Imperatore I
98.30	—	Arsie I		3.2	Golfo Salerno I
	0.6	Catanzaro I		0.03	Luinigiana I
	—	Ogliastra I		—	Minucciano I
	6	Pescara I		—	Montese I
	—	Pontassieve I		0.6	Premeno I
	—	Torriglia I		—	Ronco Scrivia I
	50	Markelo Ne		0.04	S. Giuliana I
98.40	1	Feldberg/Schw. GW		—	S. Lucia I
	25	Haardtkopf GW		0.04	San Pellegrino I
	15	Pinneberg (B.F.N.) GW		—	Susa I
	15	Västeras Sw		0.6	Tolmezzo I
98.45	5	Aachen GW		0.12	Valle S. Giacomo I
98.50	40	Ahtäri Fd		—	Vernio I
	0.03	Bagni di Lucca I	99.20	60	Bucharest R
	—	Col de Joux I		—	Breda Ne
	0.6	Como I	99.30	1	Linz A
	0.06	Domodossola I		30	Bornholm D
	0.8	Malcesine I		80	Drachenberg (B.F.N.) GW
	—	Marradi I		18	Wolfsheim GW
	—	Nusco I		—	Arsiero I
	1.2	Roseto Capo Spulico I		0.09	Benevento I
	—	Coimbra Pl		—	Col de Courtil I
98.70	15	Nordhelle GW		—	Col Del Gallo I
	—	Alghero I		6	Gambarie I
	0.12	Gardone Val Trompia I		—	Garessio I
	6	M. Caccia I		—	Larino I
	6	M. Lauro I		6	M. Limbara I
	18	M. Nerone I		—	Monopoli I
	—	Pievepelago I		6	S. Cerbone I
	—	Teggiano I		—	Viggianello I
	0.12	Val Venosta I		1	Fadara Sd
	15	Gävle Sw		1.5	Ravoire Sd
	1.5	Malmö Sw		0.75	Valzeina Sd
98.75	18	Dillberg GW	99.40	40	Kajaami Fd
98.90	1.5	Saarbrücken GW		3	Pori Fd
	0.12	Cima Penegal I		0.08	La Spezia I
	—	Civitella di Romagna I		3	Milan I
	6	M. Beigua I	99.50	—	Karl Marx Stadt GE
	6	Palermo I		—	Bassa Val Lagarina I
	0.13	Plateau Rosa I		0.6	Bolzano I
	0.04	S. Marcello Pistoiese I		2	Campo Catino I
	0.6	Sezze I		—	Cogne I
	0.12	Terni I		—	Col Perer I
	—	Ljubljana Y		—	Firenzuola I
99.00	50	Salzburg A		—	M. Padrio I
	15	Hanover (B.F.N.) GW		—	Massa I
	15	Nässjö Sw		—	Padula I
	0.75	S. Chrischona Sd		0.06	S. Antioco I
	15	Pello Fd		—	Salento I
99.10	0.01	Agordo I		—	Trecchina I
	—	Borgo S. Dalmazzo I	99.60	100	Teutoburger Wald GW
				0.8	C. Spartivento I



Mc/s	kW	Station and Country		Mc/s	kW	Station and Country	
(99.60)	0.75	Niederhorn	Sd	99.80	—	Laon (A.F.N.)	F
99.70	10	Kokkola	Fd	99.90	50	Vienna-Kahlenberg	A
		— Antico di Maiolo	I		60	Sonderjylland	D
	0.8	Aosta	I		100	Harz	GW
		— Busalla	I			— Arquata	I
		— Galata Mamertino	I			— Campagna	I
		6 M. Peglia	I			— Chiaromonte	I
	0.12	Madonna di			0.6	Crotone	I
		Campiglio	I		18	M. Cammarata	I
	0.09	Pieve di Cadore	I			— M. Patalecchia	I
		— S. Sofia	I		60	M. Penice	I
	0.6	Sestriere	I		0.02	Mugello	I
	0.3	Udine	I		15	Mierlo	Ne

Channel	Station and Country	Chanel	Station and Country
(B5)	Peterborough UK	B8	Burnhope UK
	Pontop Pike UK		Lichfield* UK
	Wenvoe* UK	F9	Bourges-Neuvy F
O3	Bratislava Cz	O8	Katowice P
	Kharkov U	IF	Sezze I
	Kiev U	B9	Black Mountain UK
	Minsk U		Croydon* UK
	Riga U		Winter Hill* UK
IC	Turin I	E8	Salzburg-Gaisberg A
O5	Vilna U		Wavre B
X2	Katzenstein Cz		Aarhus D
F5	Pic-du-Midi F		Aalen* GW
	Reims-Hautvillers* F		Feldberg-Schw. GW
	Rennes St. Pern F		Feldberg-Taunus GW
	Strasbourg F	O9	Brno Cz
F6	Côte d'Azur* F	F10	Bordeaux-Bouliac F
	Lorraine-Luttange F		Dijon* F
	Puy-de-Dôme* F		Rouen F
B5	Bregenz-Pfänder A		Monte-Carlo Mo
	Vienna-Kahlenberg A	B10	Black Hill* UK
	Aalborg D		Dover* UK
	Sydsjaelland D		Emley Moor* UK
	Berlin GE		St. Hilary* UK
	Inselsberg GE	IG	Milan I
	Kiel GW		M. Scuro I
	Roermond Ne		Pantelleria* I
	Monchique (Foia) Pl		Rome I
	M. Ceneri Sd	E9	Lahti Fd
	Norrköping Sw		Hamburg GW
	Sundsvall Sw		Hornisgrinde GW
D	Gambarie I		Langenberg GW
	Martina Franca I		Waldenburg GW
	M. Serra I		Oporto Pl
	M. Venda I		Göteborg Sw
	P. Badde Urbara I		Sljeme Y
B6	Helsinki Fd	B11	Chillerton Down* UK
	Brocken GE		Mendlesham UK
	Dillberg GW	E10	Pyramidenkogel A
	Koblenz GW		Wavre B
	Irnsrum Ne		Vestjylland D
	Belgrade Y		Harz GW
IE	M. Conero I		Weinbiet GW
F8A	Lille F		Wendelstein GW
	Paris* F		M. San Salvatore Sd
F8	Algiers Al		St. Chrischona Sd
	Marseille F	IH	M. Peglia I
	Mulhouse F		M. Pellegrino I
B7	Graz-Schöckl A		M. Sambuco I
	Sonderjylland D		Portofino I
	Turku Fd	F12	Lyon-Mont Pilat F
	Hoher Meissner GW	O11	Warsaw P
	Dudelange L	E11	Schwerin GE
	Markelo Ne		Stuttgart GW
	Lisbon Pl		Teutoburger Wald GW
	Sântis Sd	O12	Wroclaw P

## Standard Time

Hours and minutes to be added to, or subtracted from, G.M.T. to find Standard or Legal Time in places mentioned elsewhere in the Guide. The figure in parenthesis applies during the period of local Summer Time.

Aden	+ 3	Dahomey	+ 1
Afghanistan	+ 4.30	Dominican Republic	— 5
Albania	+ 1	Ecuador	— 5
Algeria	+ 1	Egypt	(+3) + 2
Andorra	+ 1	Eire	(+1) 0
Angola	+ 1	Ethiopia	+ 3
Argentina	— 3	Falkland Islands	— 4
Australia—		Faroe Islands	0
W. Australia	+ 8	Fiji Islands	+ 12
Northern Territory,		Finland	+ 2
S. Australia	+ 9.30	Formosa	(+9) + 8
N.S.W., Queensland,		France	+ 1
Victoria	+ 10	Gambia	0
Austria	+ 1	Germany, E. & W.	+ 1
Azores	(—1) — 2	Ghana	0
Bali, Indonesia	+ 7.30	Gibraltar	+ 1
Barbados	— 4	Goa	+ 5.30
Belgian Congo	+ 1	Greece	+ 2
Belgium	+ 1	Greenland	— 3
Bermuda	(—3) — 4	Guatemala	— 6
Bolivia	— 4	Guiana, British	— 3.45
Borneo—		Dutch	— 3.30
Indonesian	+ 7.30	Guinea, French	0
British N., Sarawak	+ 8	Portuguese	— 1
Brazil—		Spanish	+ 1
Eastern States	— 3	Haiti	— 5
Central States	— 4	Hawaii	— 10
Western States	— 5	Honduras, British	— 6
Bulgaria	+ 2	Republic	— 6
Burma	+ 6.30	Hong Kong	(+9) + 8
Cameroons	+ 1	Hungary	(+2) + 1
Canada—		Iceland	(0) — 1
New Brunswick, Nova		India	+ 5.30
Scotia	(—3) — 4	Indo-China	+ 7
Ontario, Quebec	(—4) — 5	Indonesia—	
Manitoba	(—5) — 6	North Sumatra	+ 6.30
Alberta	(—6) — 7	Bali, Borneo (except	
Canary Islands	0	Brit. North), Java	+ 7.30
Cape Verde Islands	— 2	South Sumatra	+ 7
Ceylon	+ 5.30	Celebes, Brit. N. Borneo	+ 8
Chile	— 4	Moluccas	+ 8.30
China	+ 8	Iraq	+ 3
Colombia	— 5	Ireland	(+1) 0
Congo Republic	+ 1	Israel	(+3) + 2
Costa Rica	— 6	Italy	+ 1
Cuba	— 5	Ivory Coast	0
Curacao	— 4.30	Jamaica	— 5
Cyprus	+ 2	Japan	+ 9
Czechoslovakia	+ 1	Jordan	+ 2
Denmark	+ 1	Kenya	+ 3

VPA-VSZ	British Colonies	2AA-2ZZ	Great Britain
VTA-VWZ	India	3AA-3AZ	Monaco
VXA-VYZ	Canada	3BA-3FZ	Canada
VZA-VZZ	Australia	3GA-3GZ	Chile
WAA-WZZ	U.S.A.	3HA-3UZ	China
XAA-XIZ	Mexico	3VA-3VZ	Tunisia
XJA-XOZ	Canada	3WA-3WZ	Vietnam
XPA-XPZ	Denmark	3YA-3YZ	Norway
XQA-XRZ	Chile	3ZA-3ZZ	Poland
XSA-XSZ	China	4AA-4CZ	Mexico
XTA-XWZ	France and Colonies	4DA-4IZ	Philippines
XXA-XXZ	Portuguese Colonies	4JA-4LZ	U.S.S.R.
XYA-XZZ	Burma	4MA-4MZ	Venezuela
YAA-YAZ	Afghanistan	4NA-4OZ	Yugoslavia
YBA-YHZ	Netherlands Indies	4PA-4SZ	Ceylon
YIA-YIZ	Iraq	4TA-4TZ	Peru
YJA-YJZ	New Hebrides	4UA-4UZ	United Nations
YKA-YKZ	Syria	4VA-4VZ	Haiti
YLA-YLZ	Latvia	4WA-4WZ	Yemen
YMA-YMZ	Turkey	4XA-4XZ	Israel
YNA-YNZ	Nicaragua	4YA-4YZ	International Civil Aviation Organization
YOA-YRZ	Rumania	5AA-5AZ	Libya
YSA-YSZ	Salvador	5CA-5CZ	French Morocco
YTA-YUZ	Yugoslavia	5MA-5MZ	Liberia
YVA-YYZ	Venezuela	5PA-5QZ	Denmark
YZA-YZZ	Yugoslavia	7JA-7JZ	Japan
ZAA-ZAZ	Albania	8JA-8JZ	Japan
ZBA-ZJZ	British Colonies	9AA-9AZ	San Marino
ZKA-ZMZ	New Zealand	9GA-9GZ	Ghana
ZNA-ZOZ	British Colonies	9KA-9KZ	Kuwait
ZPA-ZPZ	Paraguay	9MA-9MZ	Malaya
ZQA-ZQZ	British Colonies	9NA-9NZ	Nepal
ZRA-ZUZ	South Africa	9SA-9SZ	Germany
ZVA-ZZZ	Brazil		

# Frequency Allocations

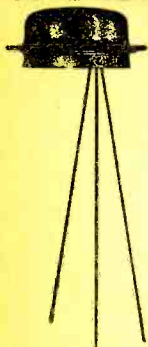
The positions of the various broadcasting bands in relation to the other services operating in the radio spectrum between 150kc/s and 10,000Mc/s, will be seen from this abridged list of frequency allocations. It is based on the Atlantic City Convention of 1947 in so far as it affects Region 1 (see map on pages 48 and 49).

kc/s		Service
150	— 285	Long-wave broadcasting
285	— 415	Marine and aeronautical radio navigation
415	— 525	Marine mobile (distress and calling frequency, telegraphy, 500). Limited use of 415 — 485 and 515 — 525 by broadcasting stations
525	— 1605	Medium-wave broadcasting
1605	— 1800	Fixed and mobile
1800	— 2000	Amateurs*
Mc/s		
2.000	— 2.045	Aeronautical fixed and mobile
2.045	— 2.065	Meteorological aids
2.065	— 2.300	Fixed and mobile (marine distress and calling frequency, telephony, 2.182)
2.300	— 2.498	Broadcasting (tropical zone only)*
2.500		Standard frequency
2.850	— 3.200	Aeronautical mobile
3.200	— 3.400	Broadcasting (tropical zone only)*
3.500	— 3.800	Amateurs*
3.950	— 4.000	Broadcasting (75-metre band)*
4.063	— 4.133	Ships, telephony
4.133	— 4.238	Ships, telegraphy
4.238	— 4.368	Coast stations, telegraphy
4.368	— 4.438	Coast stations, telephony
4.750	— 4.995	Broadcasting (tropical zone only)*
5.000		Standard frequency
5.005	— 5.060	Broadcasting (tropical zone only)*
5.950	— 6.200	Broadcasting (49-metre band)
6.200	— 6.357	Ships, telegraphy
6.357	— 6.525	Coast stations, telegraphy
6.525	— 7.000	Aeronautical mobile
7.000	— 7.150	Amateurs
7.100	— 7.300	Broadcasting (41-metre band)
8.195	— 8.265	Ships, telephony
8.265	— 8.476	Ships, telegraphy
8.476	— 8.745	Coast stations, telegraphy
8.745	— 8.815	Coast stations, telephony
9.500	— 9.775	Broadcasting (31-metre band)
10.000		Standard frequency
11.700	— 11.975	Broadcasting (25-metre band)
12.330	— 12.400	Ships, telephony
12.400	— 12.714	Ships, telegraphy
12.714	— 13.130	Coast stations, telegraphy
13.130	— 13.200	Coast stations, telephony
13.560		Industrial, scientific and medical
14.000	— 14.350	Amateurs

\*Shared with fixed and mobile.

Metres to Megacycles or Megacycles to Metres		Metres to Kilocycles or Kilocycles to Metres		Metres to Kilocycles or Kilocycles to Metres	
85	3.529	270	1,111	490	612.2
90	3.333	275	1,091	495	606.1
95	3.158	280	1,071	500	600.0
100	3.000	285	1,053	550	545.5
103	2.913	290	1,034	600	500.0
106	2.830	295	1,017	650	461.5
109	2.752	300	1,000	700	428.6
111	2.703	305	983.6	750	400.0
113	2.655	310	967.8	800	375.0
115	2.609	315	953.4	850	352.9
117	2.564	320	937.5	900	333.3
120	2.500	325	923.1	950	315.8
122	2.459	330	909.1	1,000	300.0
124	2.419	335	895.6	1,100	272.7
126	2.381	340	882.3	1,200	250.0
128	2.344	345	869.6	1,300	230.8
130	2.308	350	857.2	1,400	214.3
135	2.222	335	845.1	1,500	200.0
140	2.143	360	833.2	1,600	187.5
145	2.069	365	822.0	1,700	176.5
150	2.000	370	811.8	1,800	166.7
155	1.935	375	800.0	1,900	157.9
160	1.875	380	789.4	2,000	150.0
165	1.818	385	779.2	2,200	136.4
170	1.765	390	769.2	2,400	125.0
175	1.714	395	759.5	2,600	115.4
180	1.667	400	750.0	2,800	107.1
185	1.622	405	740.7	3,000	100.0
190	1.579	410	731.7	3,500	85.7
195	1.538	415	722.9	4,000	75.0
200	1.500	420	714.3	4,500	66.7
205	1.463	425	705.9	5,000	60.0
210	1.429	430	697.7	5,500	54.5
215	1.395	435	689.7	6,000	50.0
220	1.364	440	681.8	6,500	46.1
225	1.333	445	674.2	7,000	42.9
230	1.304	450	666.7	7,500	40.0
235	1.277	455	659.3	8,000	37.5
240	1.250	460	652.2	8,500	35.3
245	1.224	465	654.2	9,000	33.3
250	1.200	470	638.3	9,500	31.6
255	1.176	475	631.6	10,000	30.0
260	1.154	480	625.0	20,000	15.0
265	1.132	485	618.6	30,000	10.0

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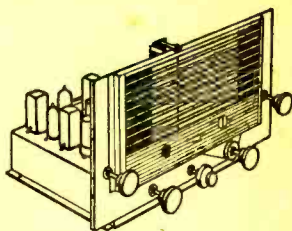
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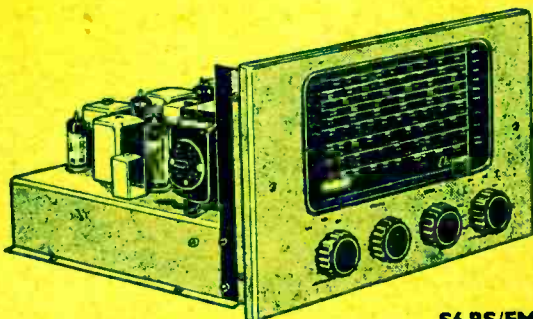
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