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'WIRELESS WORLD'

Guide to Broadcasting Stations

1958 - 59

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“ WIRELESS WORLD ”

Guide to Broadcasting Stations

1958-59

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A “Wireless World” Publication

LONDON · ILIFFE & SONS, LTD

Long- and Medium-wave European Stations

The Copenhagen Plan (1948) provided for the operation of European long-wave and medium-wave broadcasting stations in 9-kc/s channels. The European Broadcasting Area includes the western part of the U.S.S.R. and the territories bordering on the Mediterranean Sea, but those parts of Arabia and Saudi Arabia which come within this area were excluded from the Copenhagen Broadcasting Plan. As will be seen from the first column in the following table there are 15 channels in the long-wave band (150-285 kc/s), 121 in the medium-wave band (525-1605 kc/s) and 3 intermediate channels, marked X1-X3. Many stations are, however, operating on frequencies not allocated to their countries under the Plan; particulars of these stations are italicized. Some stations provided for in the Plan are not yet using the frequencies allocated; these are marked † in the power column. Stations operating on the international common frequencies (1484 and 1594 kc/s) are included in the geographical list only. Where a country is operating a number of very low-power stations (less than 1kW) on the same frequency—but not necessarily synchronized—the abbreviation "L.P. Stations" is used in the frequency list but the stations are named in the geographical list.

A list of abbreviations will be found on page 23.

Chan.	kc/s	Metres	kW	Station and Country	
	151	1,987	50	Hamburg (N.D.R.)	Germany (W.)
			—	Moscow, Russia	U.S.S.R.
1	155	1,935	10	Tromsø	Norway
			150	Brasov	Rumania
2	164	1,829	250/500	Allouis	France
3	173	1,734	500	Koenigswusterhausen	Germany (E.)
			1,000	Munich (F.O.A.)	Germany (W.)
			500	Moscow, Russia	U.S.S.R.
4	182	1,648	100	Reykjavik	Iceland
			10	Lulea	Sweden
			120	Ankara	Turkey
	185	1,622	100	Koenigswusterhausen	Germany (E.)
			400	Felsberg	Germany (W.)
5	191	1,571	150	Motala	Sweden
6	200	1,500	400	Droitwich, Worcs. (L.)	U.K.
			100	Moscow, Russia	U.S.S.R.
7	209	1,435	150	Kiev, Ukraine	U.S.S.R.
8	218	1,376	200	Oslo	Norway
9	227	1,322	200	Warsaw	Poland
	233	1,283	150	Luxembourg	Luxembourg
10	236	1,271	100	Moscow, Russia	U.S.S.R.
			150	Leningrad, Russia	U.S.S.R.
11	245	1,224	150	Kalundborg	Denmark
12	254	1,181	200	Lahti	Finland
			—	Voronezh, Russia	U.S.S.R.
13	263	1,141	150	Koenigswusterhausen	Germany (E.)
			150	Leningrad, Russia	U.S.S.R.
				Moscow, Russia	U.S.S.R.
14	272	1,103	200	Uherske Hradiste	Czechoslovakia

twice

Chan.	kc/s	Metres	kW	Station and Country	
X5	288	967	100	Minsk, Byelorussia	U.S.S.R.
—	390	769	100	Kharkov, Ukraine	U.S.S.R.
—	400	750	—	Minsk, Byelorussia	U.S.S.R.
X1	420	714.3	10	Ostersund	Sweden
X2	433	693	15	Oulu	Finland
X3	520	576.9	8	Innsbruck	Austria
			—	5 L.P. Stations	Austria
			1	Joensuu	Finland
			5	Cottbus	Germany (E.)
			2	Brunswick (N.D.R.)	Germany (W.)
			5	Nueremburg (B.R.)	Germany (W.)
			—	4 L.P. Stations (B.R.)	Germany (W.)
1	529	567.1	200	Berlin-Koepenick	Germany (E.)
			150	Beromuenster	Switzerland
2	539	538.6	15	Budapest	Hungary
3	548	547.4	100	Munich (A.F.N.)	Germany (West)
			150	Moscow, Russia	U.S.S.R.
			150	Odessa, Ukraine	U.S.S.R.
4	557	538.6	20	Cairo	Egypt
			100	Helsinki	Finland
			20	Potsdam	Germany (East)
			0.05	Guarda	Portugal
			1	Timisoara	Rumania
			50	Monte Ceneri	Switzerland
5	566	530	—	5 L.P. Stations	Austria
			20	Athlone	Eire
			20	Berlin (R.F.B.)	Germany (West)
			20	Caltanissetta	Italy
—	572	524.5	50	Khartoum R. Sudan	Sudan
			50	Tel-Aviv	Israel
6	575	521.7	300	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
			5	Paris	France
			150	Madrid	Spain
			1	Sfax	Tunisia
8	593	505.9	20	Sofia	Bulgaria
			1	Pleven	Bulgaria
			100	Frankfurt (H.R.)	Germany (West)
			20	Hoher Meissner (H.R.)	Germany (W.)
			1.25	Tangier	Morocco
			150	Sundsvall	Sweden
9	602	498.3	100	Lyons	France
			20	Karlmarxstadt	Germany (East)
			2	Damascus	Syria
—	606	495	10	Nicosia	Cyprus
10	611	491	500	Berlin-Grunau	Germany (East)
			2	Grafenwohr (A.F.N.)	Germany (W.)
			10	Nueremberg (A.F.N.)	Germany (W.)
			5	Eidar	Iceland
			140	Meknes	Morocco
			20	Krasnodar, Russia	U.S.S.R.

Chan.	kc/s	Metres	kW	Station and Country	
(10)	(611)	(491)	100	Petrozavodsk, Karelia	U.S.S.R.
			100	Sarajevo	Yugoslavia
11	620	483.9	—	2 L.P. Stations	Austria
			150	Brussels	Belgium
			20	Cairo	Egypt
			†	Moalatya	Turkey
12	629	476.9	25	Dornbirn	Austria
			25	Innsbruck	Austria
			100	Vigra	Norway
			20	Tunis	Tunisia
13	638	470.2	120	Prague	Czechoslovakia
			7.5	Limassol 13/3C.	Cyprus
			5	Seville	Spain
14	647	463.7	1	Lages	Azores
			150	Crowborough, Sussex (E)	U.K.
			2	Daventry, Northants. (I)	U.K.
			2	Edinburgh, Midlothian (I)	U.K.
			2	Glasgow (I)	U.K.
			2	Newcastle, North'd (I)	U.K.
			2	Redmoss, Aberdeen (I)	U.K.
			100	Simferopol, Russia	U.S.S.R.
—	652	460.1	1	Tel-Aviv	Israel
15	656	457.3	5	Greifswald	Germany (East)
			20	Bolzano	Italy
			80	Florence	Italy
			80	Naples	Italy
			35	Turin	Italy
			20	Venice	Italy
			150	Murmansk, Russia	U.S.S.R.
16	665	451.1	10	Kaiserslautern (A.F.N.)	Germany (W.)
			5	Athens	Greece
			0.7	Hoefn	Iceland
			38	Lisbon	Portugal
			50	Damascus	Syria
			150	Kaunas, Lithuania	U.S.S.R.
17	674	445.1	—	6 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	120	Berlin (R.I.A.S.)	Germany (West)
			75	Madrid	Spain
			150	Belgrade	Yugoslavia
19	692	433.5	—	7 L.P. Stations	Austria
			10	Nicosia	Cyprus
			20	Erfurt	Germany (East)
			20	Corunna	Spain
			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
			30	Bratislava	Czechoslovakia
			2	Kosice	Czechoslovakia
			5	Aachen (W.D.R.)	Germany (West)
			2	Herford (N.D.R.)	Germany (West)
			2	Norden (N.D.R.)	Germany (West)

Chan.	kc/s	Metres	kW	Station and Country
(20)	(701)	(428)	140	Meknes Morocco
			20	Finnmark Norway
			150	Istanbul Turkey
21	710	422.5	150	Marseilles France
			5	Jerusalem Israel
			150	Stalino, Ukraine U.S.S.R.
			20	Tartu, Estonia U.S.S.R.
22	719	417.2	—	4 L.P. Stations Cyprus
			135	Munich (R.F.E.) Germany (West)
			10	Oporto Portugal
			150	Ostersund Sweden
			20	Aleppo Syria
23	728	412.1	25	Klagenfurt Austria
			220	Woebbelin-Ludwigslust Germany (E.)
			150	Athens Greece
24	737	407	20	Berlin (R.I.A.S.) Germany (West)
			40	Hof (R.I.A.S.) Germany (West)
			5	Akureyri Iceland
			100	Tel Aviv Israel
			50	Warsaw Poland
			30	Barcelona Spain
—	745	402.7	—	Helpfer Berg Germany (East)
25	746	402.1	120	Hilversum Netherlands ①
			20	Aleppo Syria
26	755	397.3	20	Kuopio Finland
			2	Siegen (W.D.R.) Germany (West)
			135	Lisbon Portugal ②
			50	Timisoara Rumania 3
27	764	392.6	150	Sottens Switzerland 4
			100	Rostov-on-Don, Russia U.S.S.R. 5
28	773	388.1	—	7 L.P. Stations Austria
			50	Cairo Egypt 6
			—	Voronezh, Russia U.S.S.R.
			5	Valencia Spain 7
			2	Malmberget Sweden
			150	Stockholm Sweden } 8
29	782	383.6	300	Burg Germany (East) 9
			120	Berlin (R.I.A.S.) Germany (West) 10
			100	Oporto-Miramar Portugal 11
			100	Kiev, Ukraine U.S.S.R. 12
30	791	379.2	50	Salonika (V.o.A.) Greece 13
			100	Limoges France 14
31	800	375	100	Munich (B.R.) Germany (West) 15
			1	Wheelus Field (A.F.N.) Libya
			0.25	Regua Portugal
			5	Seville Spain 16
			100	Leningrad, Russia U.S.S.R. 17
			10	Barcelona Spain 18
			100	Burghead, Moray (H) U.K.)
			7	Dumfries (H) U.K.)
			5	Redmoss, Aberdeen (H) U.K.) 19
			100	Westerglen, Stirling (H) U.K.)
			135	Skoplje Yugoslavia 20
			10	Trieste Italy 21
			1	Casablanca Morocco
			0.25	Oujda Morocco

Chan.	kc/s	Metres	kW	Station and Country			
(33)	(818)	(366.7)	100	Warsaw	Poland	72	
34	827	362.8	100	Sofia	Bulgaria	23	
			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.)	21	
			1	Sigmaringen (S.W.F.)	Germany (W.)		
			1	Trier (S.W.F.)	Germany (W.)		
			5	Tetuan	Morocco		
35	836	358.9	10	Ylivieska	Finland		
				10	Nancy	France	37
				20	Beirut	Lebanon	26
				7.5	Benghazi	Libya	
				100	Huelva	Spain	5
				100	Kharkov, Ukraine	U.S.S.R.	29
				100	Rome II	Italy	51
				0.2	Helsinki	Finland	
37	854	351.3	150	Bucharest	Rumania	30	
				7.5	Madrid	Spain	31
				100	Paris	France	52
39	872	344	150	Frankfurt (A.F.N.)	Germany (West)	33	
				50	Budapest	Hungary	34
				5	Miscolc	Hungary	
				30	Zaragoza	Spain	35
				150	Moscow, Russia	U.S.S.R.	36
40	881	340.5	100	Berlin	Germany (East)	37	
				8	Penmon, Anglesey (H)	U.K.	38
				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	150	Algiers	Algeria	39	
				0.05	Gmünd-Karten	Austria	
				15	Linz	Austria	
				20	Bergen	Norway	
				20	Kristiansand	Norway	
				20	Trondheim	Norway	
				100	Ouchgorod, Ukraine	U.S.S.R.	40
42	899	333.7	150	Milan	Italy	41	
—	904	331.9	100	Burg	Germany (East)	42	
43	908	330.4	5	Cluj	Rumania		
				140	Brookmans Park, London (H)	U.K.	43
—	912	328.9	20	Reichenbach	Germany (East)	44	
—	915	327.9	10	Nis	Yugoslavia		
44	917	327.2	5	Tetuan	Morocco		
				0.2	Rabat	Morocco	
				135	Ljubljana	Yugoslavia	45
—	922	325.4	2	Paphos	Cyprus		
45	926	324	150	Brussels	Belgium	46	
				2	Luxor	Egypt	
—	930	322.6	—	Ivanovo, Russia	U.S.S.R.		
—	935	320.9	5	San Feliu de Llobregat	Spain		
46			100	Berlin (A.F.N.)	Germany (West)		
				100	Tangier	Morocco	47
				100	Lwow, Ukraine	U.S.S.R.	48

Chan.	kc/s	Metres	kW	Station and Country	
47	944	317.8	100	Toulouse	France 49
			—	Voronezh, Russia	U.S.S.R.
48	953	314.8	100	Brno	Czechoslovakia 50
			15	Plzen	Czechoslovakia
			5	Madrid	Spain 51
49	962	311.9	100	Turku	Finland 52
			5	Paris	France 53
			1	Agadir	Morocco
			120	Tunis	Tunisia 54
50	971	309	5	Goettingen (N.D.R.)	Germany (W.)
			100	Hamburg (N.D.R.)	Germany (W.)
			100	Langenberg (N.D.R.)	Germany (W.)
			20	Pinneberg (N.D.R.)	Germany (W.)
			†	Izmir	Turkey
			—	Kalinin, Russia	U.S.S.R.
			—	Smolensk, Russia	U.S.S.R.
51	980	306.1	150	Algiers	Algeria 55
			2.5	Trieste	Italy
			150	Goteborg	Sweden 56
52	989	303.3	†	Rovaniemi	Finland
			—	Erfurt	Germany (East)
			300	Berlin (R.I.A.S.)	Germany (West) 57
			†	Beirut	Lebanon
53	998	300.8	60	Andorra	Andorra 58
			0.2	Buchen (S.D.R.)	Germany (West)
			8	Heidelberg (S.D.R.)	Germany (West)
			100	Kishinev, Moldavia	U.S.S.R. 60
			1	Barcelona	Spain 61
—	1,004	298.8	50	Kerkira, Corfu	Greece 62
54	1,007	297.9	50	Salonika	Greece 63
			120	Hilversum	Netherlands 5/10/28
			6	Malaga	Spain 64
			2	Aleppo	Syria
55	1,016	295.3	120	Mainz (S.W.F.)	Germany (West)
			1	Agadir	Morocco
			5	Madrid	Spain
			†	Istanbul	Turkey
			150	Odessa, Ukraine	U.S.S.R.
56	1,025	292.7	10	Dornbirn	Austria
			100	Graz-Dobl	Austria
			100	Linz-Kronstorf	Austria
			5	Haifa	Israel
			3	San Sebastian	Spain
57	1,034	290.1	—	3 L.P. Stations (A.F.N.)	Germany (W.)
			10	Genoa	Italy
			10	Milan	Italy
			25	Naples	Italy
			25	Pescara	Italy
			5	Venice	Italy
			100	Lisbon	Portugal
			100	Tallinn, Estonia	U.S.S.R.
—	1,038	289.1	0.045	Mayrhojen	Austria
58	1,043	287.6	240	Dresden	Germany (East) after 1946
			5	Salonika	Greece 1946
			20	Rabat	Morocco
59	1,052	285.2	—	2 L.P. Stations	Austria 20/1/5

Chan.	kc/s	Metres	kW	Station and Country	
(59)	(1,052)	(285.2)	20	Suhl	Germany (East)
			2	Barnstaple, Devon (H)	U.K.
			120	Start Point, Devon (H)	U.K.
			2	Tripoli	Libya
			150	Bucharest	Rumania
60	1,061	282.8	60	Kalundborg	Denmark
			5	Cagliari	Italy
			1	Coimbra	Portugal
			1	Faro	Portugal
			—	Saransk, Russia	U.S.S.R.
—	1,069	280.6	1	Hospitalet	Spain
61	1,070	280.4	20	Bordeaux	France
			20	Marseilles	France
			100	Paris	France
			20	Dniepropetrovsk, Ukraine	U.S.S.R.
62	1,079	278	20	Plauen	Germany (East)
			2	Bremerhaven	Germany (West)
			10	Tangier	Morocco
			50	Katowice	Poland
—	1,083	277	—	Malaga	Spain
—	1,085	276.5	—	Geltru	Spain
63	1,088	275.7	50	Tirana	Albania
			—	6 L.P. Stations	Austria
			0.8	Burjasot	Spain
			150	Droitwich, Worcs. (H)	U.K.
			150	Norwich, Norfolk (H)	U.K.
—	1,089	275.5	2	Antequera	Spain
—	1,092	274.7	1	Nicosia (B.F.N.)	Cyprus
—	1,095	274	1	Algeciras	Spain
64	1,097	273.5	150	Bratislava	Czechoslovakia
65	1,106	271.2	100	Stuttgart (A.F.N.)	Germany (West)
			2	Zaragoza	Spain
			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
			0.25	Trieste	Italy
			—	Sync. Network	Norway
67	1,124	266.9	—	4 L.P. Stations	Austria
			10	Brussels	Belgium
			5	Varna	Bulgaria
			3	Barcelona	Spain
			2	Vigo	Spain
			20	Leningrad, Russia	U.S.S.R.
—	1,128	265.9	5	Tangier	Morocco
68	1,133	264.8	25	Bilbao	Spain
			20	Rijeka	Yugoslavia
			135	Zagreb	Yugoslavia
			50	Zajecar	Yugoslavia
69	1,142	262.7	20	Constantine	Algeria
			40	Oran	Algeria
			0.05	Zell-am-See	Austria
			1	Bremerhaven (A.F.N.)	Germany (W.)
			—	3 L.P. Stations (A.F.N.)	Germany (W.)

Chan.	kc/s	Metres	kW	Station and Country	
(69)	(1,142)	(262.7)	2	Toledo	Spain
			20	Kaliningrad, Russia	U.S.S.R.
—	1,147	261.6	0.2	Puigcerda	Spain
70	1,151	260.6	50	Cluj	Rumania
			2	Leon	Spain
			100	Lisnagarvey, N. Ireland (H)	U.K.
			0.25	Londonderry, N. Ireland (H)	U.K.
			2	Scarborough, Yorks. (H)	U.K.
			100	Stagshaw, North'd (H)	U.K.
—	1,154	260	0.3	Manises	Spain
			2	Teruel	Spain
			—	Tudela-Valladolid	Spain
71	1,160	258.6	150	Strasbourg	France
72	1,169	256.6	8	Heilbronn (S.D.R.)	Germany (West)
			3	Ulm (S.D.R.)	Germany (West)
			5	Jerusalem	Israel
			10	Oporto	Portugal
			100	Kiev, Ukraine	U.S.S.R.
			5	Koper	Yugoslavia
73	1,178	254.7	2	Aswan	Egypt
			10	Cuenca	Spain
			100	Horby	Sweden
74	1,187	252.7	135	Szabadsag	Hungary
			1	Casablanca	Morocco
			1	Oujda	Morocco
			0.2	Corunna	Spain
75	1,196	250.8	1	Meknes	Morocco
			20	Halle	Germany (East)
			150	Munich (V.o.A.)	Germany (West)
			†	Kerkyra	Greece
76	1,205	249	10	Alexandria	Egypt
			100	Bordeaux	France
			0.5	Haifa	Israel
			6	Poznan	Poland
77	1,214	247.1	†	Punta Delgada	Azores
			20	Barcelona	Spain
			50	Brookmans Park, London (L)	U.K.
			20	Burghead, Moray (L)	U.K.
			10	Lisnagarvey, N. Ireland (L)	U.K.
			0.25	Londonderry, N. Ireland (L)	U.K.
			50	Moorside Edge, Yorks. (L)	U.K.
			2	Newcastle, North'd (L)	U.K.
			0.25	Plymouth, Devon (L)	U.K.
			2	Redmoss, Aberdeen (L)	U.K.
			2	Redruth, Cornwall (L)	U.K.
			10	Westerglen, Stirling (L)	U.K.
			20	Barcelona	Spain
			20	Kursk, Russia	U.S.S.R.
			—	Tartu, Estonia	U.S.S.R.
—	1,219	246.1	0.1	Judenburg	Austria
78	1,223	245.3	20	Stara Zagora	Bulgaria
			20	Madrid	Spain
			100	Falun	Sweden
79	1,232	243.5	100	Kosice	Czechoslovakia
			—	Usti-Laben	Czechoslovakia
			1.5	Zilina	Czechoslovakia

Chan.	kc/s	Metres	kW	Station and Country
79	1,232	243.5	50	Tangier Morocco
80	1,241	241.7	25	Vaasa Finland
			20	Lille France
			20	Lyons France
			20	Nancy France
			20	Nice France
			20	Pau France
			20	Quimerch France
			20	Rennes France
			20	Tiraspol, Moldavia U.S.S.R.
81	1,250	240	†	2 Stations Egypt
			5	Cork Eire
			5	Dublin Eire
			135	Nyiregyhaza Hungary
			2	Viscaya Spain
—	1,255	239	2	Linares Spain
82	1,259	238.3	50	Breslau Poland
			2	Oviedo Spain
			5	Valencia Spain
			1	Granada Spain
83	1,268	236.6	100	Novi Sad Yugoslavia
—	1,269	236.4	2	Valladolid Spain
84	1,277	234.9	100	Strasbourg France
			1	Tel-Aviv Israel
85	1,286	233.3	100	Mělník Czechoslovakia 22:00
			2	Lisbon Portugal
86	1,295	231.7	5	Berlin (N.D.R.) Germany (West)
			100	Norden (N.D.R.) Germany (West)
			0.2	Rabat Morocco
			0.8	Murcia Spain
			†	Ottringham, Yorks. (E) U.K. 21:55
87	1,304	230.1	20	Constantine Algeria
			40	Oran Algeria
			—	6 L.P. Stations (A.F.N.) Germany (W.)
			1	Athens Greece
			30	Gdansk Poland
			100	Stettin Poland
			25	Zielona Gora Poland
			1	San Sebastian Spain
88	1,313	228.4	0.1	Leoben Austria
			0.2	Las Palmas Canary Is.
			100	Stavanger Norway
			1	Alicante Spain
			2	Badalona Spain
			2	Corunna Spain
			0.2	Salamanca Spain
—	1,315	228.1	1	Vitoria Spain
—	1,321	227.4	0.4	Carlet Spain
89	1,322	226.9	0.15	Angra do Heroismo Azores
			150	Leipzig Germany (East)
			2	Melilla Morocco
			0.15	Santarem Portugal
			2	Cadiz Spain
			†	Ouchgorod, Ukraine U.S.S.R.
—	1,326	226.2	1	Avila Spain
90	1,331	225.4	20	Bari Italy

Chan.	kc/s	Metres	kW	Station and Country	
(90)	(1,331)	(225.4)	25	Bologna	Italy
			2	Catania	Italy
			50	Genoa	Italy
			12.5	Palermo	Italy
			25	Pescara	Italy
			80	Rome	Italy
			1	Udine	Italy
			—	2 L.P. Stations	Italy
—	1,336	224.5	1	Haifa	Israel
91	1,340	223.9	†	Alexandria	Egypt
			—	Athens	Greece
			135	Nyiregyhaza	Hungary
			15	Pecs	Hungary
			25	Szombathely	Hungary
			—	2 L.P. Stations	Hungary
			150	Crowborough, Sussex (E)	U.K.
—	1,341	223.9	0.8	Algemesi	Spain
—	1,343	223.4	—	Talavera del Reina	Spain
92	1,349	222.4	10	Korce	Albania
			1	Bayonne	France
			20	Clermont	France
			20	Grenoble	France
			20	Limoges	France
			20	Nantes	France
			20	Toulouse	France
			2	Sabadell	Spain
			20	Kuldiga, Latvia	U.S.S.R.
			20	Riga, Latvia	U.S.S.R.
—	1,354	221.6	—	Baza	Spain
—	1,355	221.4	—	Alot	Spain
93	1,358	220.9	†	Tirana	Albania
			20	Bremen	Germany (West)
			1	Elvas	Portugal
			1	Viseu	Portugal
			0.2	Palamos	Spain
			1	Reus	Spain
94	1,367	219.5	5	Thorshavn	Faroe Is.
			—	Sync. Network	Italy
			24	Torun	Poland
			10	Oporto	Portugal
			2	Cordoba	Spain
			—	Maresma de Mataro	Spain
			—	4 L.P. Stations	Switzerland
—	1,373	218.5	2	Denia	Spain
55	1,376	218.5	2	Lille	France
			2	Linares	Spain
96	1,385	216.6	—	Amalias	Greece
			50	Athens	Greece
			2	Albacete	Spain
			150	Kaunas, Lithuania	U.S.S.R.
—	1,387	216.3	1	Santander	Spain
—	1,390	215.8	2	Badajoz	Spain
97	1,394	215.2	25	Graz	Austria
			0.25	Bitburg (A.F.N.)	Germany (West)
			†	Rhodes Island	Greece

Chan.	kc/s	Metres	kW	Station and Country			
(97)	(1,394)	(215.2)	1	Jerusalem Israel			
			—	Almeria Spain			
			2	Pamplona Spain			
			2	Valencia Spain			
			—	Sync. Network Sweden			
98	1,403	213.8	20	<u>Brest</u> France			
			20	Louvetot France			
			10	Montpellier France			
			20	Nice France			
			20	Rouen France			
			5	Komotini Greece			
			0.4	Castellon de la Plana Spain			
			2	Vigo Spain			
			100	<u>Tallinn, Estonia</u> U.S.S.R.			
			—	1,411	212.6	5	Oviedo Spain
99	1,412	212.4	0.4	Santa Cruz Canary Is.			
			3	Bad Mergentheim (S.D.R.) Germany (West)			
			2	Ceuta Morocco			
			0.5	Gandia Spain			
			5	Maribor Yugoslavia			
			2	Novi Sad Yugoslavia			
			20	Pristina Yugoslavia			
			50	<u>Split</u> Yugoslavia			
			—	1,414	212.2	0.2	Palencia Spain
			—	1,415	212	0.2	Santiago Compostela Spain
			—	—	—	0.8	Cadiz Spain
			—	—	—	0.4	Terrega Spain
			—	1,417	211.7	—	Villafranca Spain
			—	1,418	211.5	1	Jaen Spain
			—	—	—	2	Zamora Spain
100	1,421	211.1	40	Algiers Algeria			
			1	Tlemcen Algeria			
			20	Saarbruecken Germany (W.)			
			—	Cullera Spain			
			0.05	Sfax Tunisia			
			5	Chernigov, Ukraine U.S.S.R.			
—	1,429	210	—	Sabadell Spain			
101	1,430	209.8	5	Argyrocastro Albania			
			10	Copenhagen Denmark			
			70	Skive Denmark			
			5	<u>Baneaa</u> Rumania			
			1	Caceres Spain			
			1	Campo de Gibraltar Spain			
			5	Palma de Mallorca Spain			
—	1,433	209.4	2	Orense Spain			
—	1,439	208.5	0.2	Alcira Spain			
102	1,439	208.5	0.2	Luxembourg Luxembourg			
103	1,448	207.2	0.2	Utiel Spain			
			5	Ancona Italy			
			0.25	Cagliari Italy			
			—	Caltanissetta Italy			
			5	Catania Italy			
—	—	—	5	Florence Italy			

Chan.	kc/s	Metres	kW	Station and Country				
(103)	(1,448)	(207.2)	—	Leece	Italy			
			12.5	Palermo	Italy			
			5	San Remo	Italy			
			5	Sassari	Italy			
			1	Taranto	Italy			
			20	Turin	Italy			
			1	Udine	Italy			
			†	Sync. Network	Portugal			
			—	Alora	Spain			
			9	Burgos	Spain			
			1	Granada	Spain			
			—	Sync. Network	Sweden			
			—	1,451	206.8	1	Alicante	Spain
			—	1,452	206.6	0.8	Soria	Spain
104	1,457	205.9	—	3 L.P. Stations	Austria			
			0.15	Caramulo	Portugal			
			20	Craiova	Rumania			
			0.2	Ciudad Real	Spain			
			0.5	Onteniente	Spain			
			—	Sagunto	Spain			
			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.						
4	Redruth, Cornwall (H)	U.K.						
0.5	1,466	204.6	400	Monte Carlo	Monaco			
106	1,475	203.4	150	Sync. Network	Norway			
			—	Vienna-Wilhelminenberg	Austria			
			1	Huesca	Spain			
—	1,477	203.1	0.5	Valladolid	Spain			
—	1,478	203	—	Amman	Jordan			
—	—	—	—	Opole	Poland			
—	—	—	—	Sueca	Spain			
107	1,484	202.2	—	International Common Frequency	✕			
			—	Manresa	Spain			
108	1,493	200.9	2	7 L.P. Stations	Austria			
			2	Vyslac-Tatry	Czechoslovakia			
			—	Sync. Network	France			
			5	Rhodes Island	Greece ✕			
			0.4	Albacete	Spain			
			2	Alcoy	Spain			
			2	Jerez de la Frontera	Spain			
			†	Gomel, Byelorussia	U.S.S.R.			
			—	1,497	200.4	0.6	Jativa	Spain
			—	1,500	200	0.05	Lages Field (A.F.N.)	Azores
			—	—	—	0.2	Pontevedra	Spain
			—	—	—	2	Tarrasa	Spain
109	1,502	199.7	0.02	Bludenz	Austria			
			0.4	Muenster (W.D.R.)	Germany (W.)			
			—	3 L.P. Stations (A.F.N.)	Germany (W.)			
			30	Cracow	Poland			
			30	Rzeszow	Poland			
			2	Leon	Spain			
			2	Segovia	Spain			

3AM2

Chan.	kc/s	Metres	kW	Station and Country
110	1,511	198.5	20	Brussels Belgium
			5	Khania, Crete Greece
			0.5	Patras 198.574 Greece
			2	Algeciras Spain
			2	Gijon Spain
			2	Lerida Spain
			0.2	Murcia Spain
111	1,520	197.4	5	Ceske-Budejovice Czechoslovakia
			15	Karlovy-Vary Czechoslovakia
			20	Moravska-Ostrava Czechoslovakia
			†	Corunna Spain
—	1,523	197	2	Gerona Spain
112	1,529	196.2	†	Funchal Madeira
			2	Elche Spain
			0.6	Vich Spain
			2	Vitoria Spain
			—	Sync. Network Sweden
			120	Vatican City Vatican City
			—	Maribor Yugoslavia
113	1,538	195.1	20	Bad Duerrheim (S.W.F.) Germany (West)
			40	Ravensburg (S.W.F.) Germany (W.)
			10	Reutlingen (S.W.F.) Germany (W.)
			—	Zakopane Poland
			†	Sync. Network Spain
114	1,546	194.1	†	Sync. Network (T) U.K.
115	1,554	193.1	5	Vinnitza, Ukraine U.S.S.R.
			60	Nice France
			†	U.S. Forces Germany (West)
116	1,562	192.1	†	Turi, Estonia U.S.S.R.
			0.01	Zweibrucken (Canadian Forces) Germany (W.)
			1	Covilha Portugal
117	1,570	191.1	—	Sync. Network Sweden
			†	Sync. Network Switzerland
			0.08	Santa Maria Aero Azores
			†	Germany (East)
			3	Flensburg (N.D.R.) Germany (W.)
			5	Lingen (N.D.R.) Germany (West)
			2	Tarragona Spain
†	Sfax Tunisia			
118	1,578	190.1	—	Sync. Network Italy
			10	Fredrikstad Norway
			2	Honningsvag Norway
			1	Oporto Portugal
			1	Tripoli (A.F.N.) Libya
119	1,585	189.3	1	Bonn (W.D.R.) Germany (West)
			5	Hanover (N.D.R.) Germany (W.)
			20	Kiel (N.D.R.) Germany (West)
			5	Kleve (W.D.R.) Germany (West)
			3	Oldenburg (N.D.R.) Germany (W.)
			40	Osnabruck (N.D.R.) Germany (W.)
			5	Sync. Network Spain
†	International Common Frequency			
120	1,594	188.2	—	International Common Frequency
—	1,595	188.1	15	Miscolc Hungary
121	1,602	187.3	0.4	Hof (B.R.) Germany (West)

Chan.	kc/s	Metres	kW	Station and Country
(121)	(1,602)	(187.3)	20	Kirchheim-Schwaben (B.R.) Germany (West)
			20	Landau (B.R.) Germany (West)
			40	Nueremberg (B.R.) Germany (West)
			†	Sync. Network Norway
			†	Sync. Network Portugal
—	1,613	186	0.2	Moro de Ebro Spain
—	1,621	183.8	—	Gouzon (Canadian Forces) France
—	1,625	183.7	0.5	Tortosa Spain
—	1,635	183.5	—	Marville (Canadian Forces) France

Geographical List of Long- and Medium-wave European Stations

	kc/s		kc/s
ALBANIA			
Argyrokastrò	1,430	Györ	1,340
Korce	1,349	Hermagor	773
Tirana	1,088	Hof-Gastein	1,124
		Imst	1,124
ALGERIA		Innsbrück	520•
Algiers	890	"	629
"	980	Judenburg	1,218
"	1,421	Kindberg	1,088
Bone	1,484	Klagenfurt	584•
Constantine	1,142	"	728
"	1,304	Knittelfeld	1,088
Fort National	1,484	Kotschach	692
Oran	1,142	Krems	1,052
"	1,304	Kufstein	1,124
Tlemcen	1,421	Landeck	520
		Lend	773
ANDORRA		Leoben	1,313
Andorra	998	Liezen ..	1,088
		Liezen-Osttirol	520
AUSTRIA		Linz	890•
Admont	692	Linz-Kronstorf	1,025
Amstetten	1,457	Maria Pfarr	566
Bad-Aussee	620	Mariazell	773
Bad-Ischl	566	Matrei	674
Bischofshofen	674	Mayrhofen	1,038
Bleiburg	674	Mittersill	1,493
Bludenz	1,502	Muerzzuschlag	692
Braunau-Inn	566	Murau	692
Brück a.d. Mur	1,124	Neunkirchen	1,052
Dornbirn	629	Oberdrauburg	773
"	1,025	Öbervellach	692
Eisenerz	620•	Radentheim	674
Eisenkappel	520	Radstadt	566
Feistritz-Drau	566	Reutte	1,493
Feldkirchen	520	Ried-Innkreis	674
Friesach	1,088	Saalfelden	1,493
Gloggnitz	674	St. Michael-im-Lunggau	773
Gmünd-Karten	890	St. Poelten	1,484
Graz	1,394•	Salzburg	584
Graz-Dobl	1,025	"	773
Greitenburg	520		

	kc/s		kc/s
Austria—cont.			
Schwarzach	1,493	Karlovy-Vary	1,520
Spittal-Drau	773	Kosice	701
Szolnok	1,340	"	1,232
Vienna	584	Liberec	1,484
Vienna-Wilhelminenberg	1,475	Melnik	1,286
Villach	692	Moravska-Ostrava	1,520
Volkermarkt	1,088	Plzen	953
Wiener Neustadt	1,457	"	1,484
Windischgarsten	1,493	Prague	638
Wolfsberg	1,088	"	1,484
Worgl	1,493	Rimavska	1,484
Zell-am-See	1,142	Saboda	1,484
Zwettl	692	Uherske Hradiste	272
AZORES		Usti-Laben	1,232
Angra do Heroismo	1,322	Vysilac-Tatry	1,478
Lages	647	Zilina	1,232
Lages Field	1,500	DENMARK	
Punta Delgada	1,214	Aalborg	1,484
Santa Maria Aero	1,570	Copenhagen	1,430
BELGIUM		"	1,484
Brussels	620	Esbjerg	1,594
"	926	Kalundborg	245
"	1,124	"	1,061
"	1,511	Skive	1,430
Kortrijk	1,484	Tonder	1,484
Liege	1,484	EGYPT	
BULGARIA		Alexandria	1,205
Pleven	593	Aswan	1,178
Sofia	593	Cairo	557
"	827	"	620
"	1,484	"	773
Stara Zagora	1,223	Luxor	926
Varna	1,124	EIRE	
CANARY ISLANDS		Athlone	566 X
Las Palmas	1,313	Cork	1,250 X
Santa Cruz	1,412	Dublin	1,250 X
CYPRUS		FAROE ISLANDS	
Episcopi (B.F.N.)	719	Thorshavn	1,367 X
Kyrenia (B.F.N.)	719	FINLAND	
Limassol	638	Helsinki	557
" (B.F.N.)	719	"	845
"	1,484	"	1,484
Nicosia	606	Joensuu	520
" (B.F.N.)	1,092	Kuopio	755
Paphos (B.F.N.)	719	Lahti	254
"	922	Oulu	433
CZECHOSLOVAKIA		Pietasaari	1,484
Banska Bystrica	701	Pori	1,484
Bratislava	701	Tammisaari	1,484
"	1,097	Turku	962
Brno	953	"	1,484
"	1,484	Vaasa	1,241
Ceske-Budejovice	1,520	Ylivieska	836
Gottwaldov	1,484	FRANCE	
Hradec-Kralove	1,484	Allouis	164 X
Jihlava	1,484	Annemasse	1,484
		Bayonne	1,349

	kc/s		kc/s
France—cont.			
Bayonne	1,594	Erfurt	989
Besancon	1,484	Greifswald	656
Bordeaux	1,070	Halle	1,196
”	1,205	Helpter Berg	745
Brest	1,403	Karlmarxstadt	602
Caen	1,484	Koenigswusterhausen	173
Clermont	1,349	”	185
Dijon	1,484	Leipzig ”	263
Gouzon	1,621	”	575
Grenoble	1,349	”	1,322
”	1,484	Plauen	1,079
Lille	1,241	Potsdam	557
”	1,376	Reichenbach	912
Limoges	791	Suhl	1,025
”	1,349	Woebbelin-Ludwigslust	728
Louvetot	1,403	GERMANY, WEST	
Lyons	602	Aachen (W.D.R.)	701
”	1,241	Adelsheim (S.D.R.)	1,484
Marseilles	710	Ansbach (A.F.N.)	1,034
”	1,070	Augsburg (B.R.)	1,484
Marville	1,635	Bad Duerrheim (S.W.F.)	1,538
Montpellier	1,403	Bad Kissingen (A.F.N.)	1,034
”	1,484	Bad Mergentheim (S.D.R.)	1,412
Nancy	836	Baden Baden (S.W.F.)	827
”	1,241	Bamberg (A.F.N.)	1,304
Nantes	1,349	Bayreuth (B.R.)	520
Nice	1,241	Berchtesgaden (A.F.N.)	1,304
”	1,403	(S.F.B.)	1,484
”	1,554	Berlin” (R.F.B.)	566
Nimes	1,594	” (R.I.A.S.)	683
Paris	584	” (R.I.A.S.)	737
”	863	” (R.I.A.S.)	782
”	962	” (A.F.N.)	935
”	1,070	” (R.I.A.S.)	989
Pau	1,241	” (N.D.R.)	1,295
Perpignan	1,484	” (R.F.B.)	1,484
Poitiers	1,484	Bitburg (A.F.N.)	1,394
Quimerch	1,241	Bonn (W.D.R.)	1,586
Rennes	674	Bopfing (S.D.R.)	1,484
”	1,241	Bremen	1,358
Rouen	1,403	Bremerhaven	1,079
St. Brieuç	1,484	” (A.F.N.)	1,142
Strasbourg	1,160	Brunswick (N.D.R.)	520
”	1,277	Buchen (S.D.R.)	998
Toulon	1,594	Coburg (B.R.)	1,484
Toulouse	944	Crailsheim (S.D.R.)	1,484
”	1,349	Eberbach/Neckar (S.D.R.)	1,484
Sync. Network	1,493	Ellwangen (S.D.R.)	1,484
GERMANY, EAST		Felsberg	185
Berlin	529	Flensburg (N.D.R.)	1,570
”	881	Frankfurt (H.R.)	593
Berlin-Grunau	611	” (A.F.N.)	872
Burg	782	Freiburg (S.W.F.)	827
”	904	Fulda (A.F.N.)	1,304
Cottbus	520	Garmisch (A.F.N.)	1,502
Dresden	1,043	Gerabronn (S.D.R.)	1,484
Erfurt	692	Giengen (S.D.R.)	1,484

Germany, West—cont.		kc/s			kc/s
Giessen (A.F.N.)	1,502	Trier (S.W.F.)			827
Goettingen (N.D.R.)	971	Ulm (S.D.R.)			1,169
Grafenwohr (A.F.N.)	611	Weiden (B.R.)			1,484
Hamburg (N.D.R.)	151	Wertheim (A.F.N.)			1,304
" (N.D.R.)	971	Wertheim/Main (S.D.R.)			1,484
Hanover (N.D.R.)	1,586	Wuerzburg (B.R.)			520
Heidelberg (S.D.R.)	998	" (A.F.N.)			1,142
" (A.F.N.)	1,304	Zweibrucken			1,562
Heidenheim (S.D.R.)	1,484	GIBRALTAR			
Heilbronn (S.D.R.)	1,169	Fort Wellington	1CF		1,484
Herford (N.D.R.)	701	GREECE			
Hersfeld (A.F.N.)	1,142	Amalias			1,385
Hof (R.I.A.S.)	737	Athens			665
" (B.R.)	1,602	"			728
Hoher Meissner (H.R.)	593	"			1,304
Kaiserslautern (A.F.N.)	665	"			1,340
" (S.W.F.)	827	"			1,385
Kassel (A.F.N.)	1,034	Kerkira, Corfu			1,007
Kempten (B.R.)	520	Khania, Crete			1,511
Kiel (N.D.R.)	1,586	Komotini			1,403
Kirchheim-Schwaben (B.R.)	1,602	Patras			1,511
Kleve (W.D.R.)	1,586	Rhodes Island			1,493
Koblenz (S.W.F.)	827	Salonika			791
Landau (B.R.)	1,602	"			1,007
Landshut (B.R.)	1,484	"			1,043
Langenberg (N.D.R.)	971	Volos	1CF		1,484
Lingen (N.D.R.)	1,570	HUNGARY			
Mainz (S.W.F.)	1,016	Balatonzabadi	1CF		1,594
Mosbach (S.D.R.)	1,484	Budapest			539
Muenster (W.D.R.)	1,502	Gyor			1,340
Munich (V.o.A.)	173	Magyarovar			1,594
" (V.o.A.) AFN	548	Miscolc			872
" (R.F.E.)	719	"			1,595
" (B.R.)	800	Nyiregyhaza			1,250
" (V.o.A.)	1,196	"			1,340
Norden (N.D.R.)	701	Pecs			1,340
" (N.D.R.)	1,295	Szabadsag			1,187
Nueremberg (B.R.)	520	Szolznok			1,340
" (A.F.N.)	611	Szombathely			1,340
" (B.R.)	1,602	ICELAND			
Oldenburg (N.D.R.)	1,586	Akureyri	5	737 407	
Osnabrueck (N.D.R.)	1,586	Eidar	5	611 491	
Passau (B.R.)	520	Hoefn	0.7	665 645.1	
Pinneberg (N.D.R.)	971	Keflavik (A.F.N.)		1,484	
Ravensburg (S.W.F.)	1,538	Reykjavik		182	
Regensburg (A.F.N.)	1,304	ISRAEL			
" (B.R.)	1,484	Haifa		1,025	
Reutlingen (S.W.F.)	1,538	"		1,205	
Saarbruecken	1,421	"		1,336	
Schwabisch (S.D.R.)	1,484	Jerusalem		710	
Schweinfurt (A.F.N.)	1,142	"		1,394	
Siegen (W.D.R.)	755	Tel Aviv		572	
Sigmaringen (S.W.F.)	827	"		652	
Straubing (A.F.N.)	1,502	"		737	
Stuttgart (S.D.R.)	575	"		1,277	
" (A.F.N.)	1,106				

	kc/s		kc/s
ITALY			
Aosta	1,115	Jerusalem	677
Aquila	1,484	LEBANON	
Avellino	1,484	Beirut	836
Bari	1,115	LIBYA	
"	1,331	Benghazi	836
Bologna	1,115	Tripoli	1,052
"	1,331	" (B.F.N.)	1,484
Bolzano	656	" (A.F.N.)	1,585
"	1,484	Wheelus Field (A.F.N.)	800
Cagliari	1,061	LUXEMBOURG	
"	1,448	Luxembourg	233
Caltanissetta	566		1,439
"	1,448	MADEIRA	
Catania	1,331	Funchal	1,484
"	1,448	"	1,594
Catanzaro	1,484	MONACO	
Cosenza	1,484	Monte Carlo	1,466
Florence	656	MOROCCO	
"	1,448	Agadir	962
Genoa	1,034	"	1,016
"	1,331	Ben Guerir (A.F.N.)	1,594
Gorizia	1,484	Casablanca	818
La Spezia	1,484	"	1,187
Lecce	1,448	Ceuta	1,412
Messina	1,115	Meknes	611
Milan	899	"	701
"	1,034	"	1,196
Naples	656	Melilla	1,322
"	1,034	Nouaceur (A.F.N.)	1,594
Palermo	1,331	Oujda	818
"	1,448	"	1,187
Pescara	1,034	Port Lyautey (A.F.N.)	1,484
"	1,331	Rabat	917
Pisa	1,115	"	1,043
Potenza	1,484	"	1,286
Reggio Calabria	1,331	Sidi Slimein (A.F.N.)	1,594
Rome	845	Tangier	593
"	1,331	"	935
San Remo	1,448	"	1,079
Sassari	1,448	"	1,128
Taranto	1,448	"	1,232
Trento	1,331	"	1,594
Trieste	818	Tetuan	827
"	980	"	917
"	1,115	NETHERLANDS	
"	1,594	Hengelo	1,594
Turin	656	Hilversum	746
"	1,448	"	1,007
Udine	1,331	Hoogezaand	1,594
"	1,448	Hulsberg	1,594
Venice	656	NORWAY	
"	1,034	Bergen	890
Verona	1,484	Bodo	674
Sync. Network	1,367	Bronnoysund	1,484
Sync. Network	1,578	Finnmark	701
JORDAN		Fredrikstad	1,578
Amman	1,477		

	kc/s		kc/s
Norway—cont.			
Glomfjord	1,484	Bucharest	1,052
Honningsvag	1,578	Cluj	908
Kristiansand	890	"	1,151
Mosjoen	1,484	Craiova	1,457
Oslo	218	Timisoara	557
Rjukan	1,484	"	755
Stavanger	1,313		
Tromso	155	SPAIN	
Trondheim	890	Albacete	1,385
Vigra	629	"	1,493
Sync. Network	1,115	Alcira	1,433
Sync. Network	1,466	Alcoy	1,493
		Algemesi	1,341
POLAND		Algeciras	1,095
Bialystok	1,594	"	1,511
Breslau	1,259	Alicante	1,313
Cracow	1,502	"	1,451
Gdansk	1,304	Almeria	1,394
Katowice	1,079	Alora	1,448
Kielce	1,484	Alot	1,355
Lodz	1,484	Antequera	1,089
Opole	1,478	Avila	1,326
Poznan	1,205	Badajoz	1,406
Rzeszow	1,502	"	1,484
Stettin	1,304	Badalona	1,313
"	1,484	Barcelona	737
Torun	1,367	"	809 10
Warsaw	227	"	1,004
"	737	"	1,124
"	818	"	1,214
Zakopane	1,538	Baza	1,354
Zielona Gora	1,304	Bilbao	1,133 2 1/2
		Burgos	1,448
PORTUGAL		Burjasot	1,088
Caramulo	1,457	Caceres	1,430
Coimbra	1,061	Cadiz	1,322
Covilha	1,562	"	1,415
Elvas	1,358	Campo de Gibraltar	1,430
Faro	1,061	Carlet	1,321
Guarda	557	Castellon de la Plana	1,403
Lisbon	665	Ciudad Real	1,457
"	755	Cordoba	1,367
"	1,034	Corunna	692
"	1,286	"	1,187
" (5 Stations)	1,594	"	1,313
Oporto	719	Cuenca	1,178 10
"	1,169	Cullera	1,421
"	1,367	Denia	1,373
"	1,578	Elche	1,529
Oporto-Miramar	782	Gandia	1,412
Portalegre	1,484	Geltru	1,085
Regua	800	Gerona	1,523
Santarem	1,322	Gijon	1,511
Viseu	1,358	Granada	1,262
		"	1,448
RUMANIA		Hospitalet	1,069
Baneaa	1,430	Huelva	836 2
Brasov	155	Huesca	1,475
"	1,484		

Spain—cont.	kc/s		kc/s
Jaen	1,418	Tudela-Valladolid	1,154
Jativa	1,497	Utiel	1,439
Jerez de la Frontera	1,493	Valencia	773
Leon	1,151	"	1,259
"	1,502	"	1,394
Lerida	1,511	Valladolid	1,475
Linares	1,255	"	1,269
"	1,376	Vich	1,529
Logrono	1,484	Vigo	1,124
Lugo	1,484	"	1,403
Madrid	584	Villafranca	1,417
"	683 ⁵	Viscaya	1,250
"	854	Vitoria	1,315
"	953	"	1,529
"	1,016	Zamora	1,418
"	1,223	Zaragoza	872
Malaga	1,007	"	1,106
"	1,083	SUDAN	
Manises	1,154	Khartoum	572
Manresa	1,490	SWEDEN	
Maresma de Mataro	1,367	Falun	1,223
Moro de Ebro	1,613	Goteborg	980
Murcia	1,295	"	1,484
"	1,511	Horby	1,178
Onteniente	1,457	Jonkoping	1,484
Orense	1,430	Karlstadt	1,484
Oviedo	1,259	Lulea	182
"	1,411	Malmberget	773
Palamos	1,358	Motala	191
Palencia	1,414	Ostersund	420
Palma de Mallorca	1,430	"	719
Pamplona	1,394	Stockholm	773
Pontevedra	1,500	"	1,484
Puigcerda	1,147	Sundsvall	593
Reus	1,358	Sync. Network	1,394
Sabadell	1,349	Sync. Network	1,448
"	1,429	Sync. Network	1,529
Sagunto	1,459	Sync. Network	1,562
Salamanca	1,313	SWITZERLAND	
San Feliu de Llobregat	930	Basle	1,367
San Sebastian	1,025	Beromuenster	529
"	1,304	Chur	1,367
Santander	1,387	Monte Ceneri	557
"	1,484	Saviese	1,367
"	1,414	Sool	1,367
Santiago Compostella	1,414	Sottens	764
Segovia	1,508	SYRIA	
Seville	638	Aleppo	719
"	800 ⁵	"	746
Soria	1,452	"	1,007
Sueca	1,475	Damascus	602
Talavera del Reina	1,343	"	665
Tarragona	1,570	TUNISIA	
Tarrasa	1,502	Sfax	584
Terrega	1,415	"	1,421
Teruel	1,156	Tunis	629
Toledo	1,142	"	962
Tortosa	1,625	"	

TURKEY	kc/s	U.S.S.R.	kc/s
Ankara	182	Chernigov, Ukraine	1,421
Istanbul	701	Chernovtsy, Ukraine	674
UNITED KINGDOM		Dnepropetrovsk, Ukraine	1,070
Barnstaple, Devon (H)	1,052	Ivanovo, Russia	926
Barrow, Lancs. (H)	1,484	Kalinin, Russia	971
Bartley, Hants. (H)	1,457	Kaliningrad, Russia	1,142
Bexhill, Sussex (H)	1,457	Kaunas, Lithuania	665
Brighton, Sussex (H)	1,457	"	1,385
Brookmans Park, London (H)	908	Kharkov, Ukraine	390
" " (L)	1,214	"	836
Burghead, Moray (H)	809	Kiev, Ukraine	209
" (L)	1,214	"	782
Cardiff, Glamorgan (T)	1,484	"	1,169
Clevedon, Somerset (H)	1,457	Kishinev, Moldavia	998
Cromer, Norfolk (H)	692	Krasnodar, Russia	611
Crowborough, Sussex (E)	647	Kuldiga, Latvia	1,349
" (E)	1,340	Kursk, Russia	1,214
Daventry, Northants. (T)	647	Leningrad, Russia	236
Droitwich, Worcs. (L)	200	"	263
" (H)	1,088	"	800
Dumfries (H)	809	"	1,124
Edinburgh, Midlothian (T)	647	Lwow, Ukraine	935
Folkestone, Kent (H)	1,457	Minsk, Byelorussia	281
Glasgow (T)	647	"	400
Lisnagarvey, N. Ireland (H)	1,151	Moscow, Russia	151
" (L)	1,214	"	173
Londonderry, N. Ireland (H)	1,151	"	200
" (L)	1,214	"	236
Moorside Edge, Yorks. (H)	692	"	263
" (L)	1,214	"	548
Newcastle, North'd (T)	647	"	872
" (L)	1,214	Murmansk, Russia	656
Norwich, Norfolk (H)	1,088	Odessa, Ukraine	548
Penmon, Anglesey (H)	881	"	1,016
Plymouth, Devon (L)	1,214	Ouchgorod, Ukraine	890
Ramsgate, Kent (H)	1,484	"	1,322
Redmoss, Aberdeen. (T)	647	Petrozavodsk, Karelia	611
" (H)	809	Riga, Latvia	575
" (L)	1,214	"	1,349
Redruth, Cornwall (L)	1,214	Rostov-on-Don, Russia	764
" (H)	1,457	Saransk, Russia	1,061
Scarborough, Yorks. (H)	1,151	Simferopol, Russia	647
Stagshaw, North'd (H)	1,151	Smolensk, Russia	971
Start Point, Devon (H)	1,052	Stalino, Ukraine	710
Towyn, Merioneth. (H)	881	Tallinn, Estonia	1,034
Washford, Somerset (H)	881	"	1,403
Westerglen, Stirling. (H)	809	Tartu, Estonia	710
" (L)	1,214	"	1,214
Whitchaven, Cumb.(H)	692	Tiraspol, Moldavia	1,241
Wrexham, Denbigh. (H)	881	Vilna, Lithuania	1,106
Sync. Network (T)	1,546	Voronezh, Russia	254
		"	773
		"	944
		VATICAN CITY	
		Vatican City	1,529

YUGOSLAVIA		kc/s		kc/s
Belgrade		683	Osijek	1,484
Bitolja		1,484	Pristina	1,412
Dubrovnik		1,484	Rijeka	1,133
Koper		1,169	Sarajevo	611
Ljubljana		917	Skoplje	809
Maribor		1,412	Split	1,412
"		1,529	Titograd	881
Nis		915	Zagreb	1,133
Novi Sad		1,268	Zajecar	1,133
" "		1,412		

V.H.F. Sound Transmitters in the U.K.

	Light (Mc/s)	Third (Mc/s)	Home (Mc/s)	e.r.p. (kW)
N. Hessary Tor, Devon ..	88.1	90.3	92.5	60
Sandale, Cumberland ..	88.1	90.3	92.5† 94.7*	120
Sutton Coldfield, Warwicks. ..	88.3	90.5	92.7	120
Douglas, Isle of Man ..	—	—	92.8	6
Pontop Pike, Co. Durham ..	88.5	90.7	92.9	60
Rowridge, Isle of Wight ..	88.5	90.7	92.9	60
Meldrum, Aberdeen. ..	88.7	90.9	93.1	60
Blaen Plwyf, Cardigan... ..	88.7	90.9	93.1	60
Llangollen, Denbigh. ..	88.9	91.1	93.3	6
Wrotham, Kent ..	89.1	91.3	93.5	120
Holme Moss, Yorks. ..	89.3	91.5	93.7	120
Rosemarkie, Ross & Cromarty	89.6	91.8	94.0	6
Llanddona, Anglesey ..	89.6	91.8	94.0	2
Tacolneston, Norfolk ..	89.7	91.9	94.1	120
Wenvoe, Glamorgan ..	89.95	96.8	92.125§ 94.3‡	120
Kirk o'Shotts, Lanarks. ..	89.9	92.1	94.3	120
Divis, N. Ireland ..	90.1	92.3	94.5	60

† Northern Home Service.

* Scottish Home Service.

§ West Home Service.

‡ Welsh Home Service.

Abbreviations

A.F.N. American Forces Network
 B.F.N. British Forces Network
 B.R. Bayerischer Rundfunk
 H.R. Hessischer Rundfunk
 N.D.R. Norddeutscher Rundfunk
 R.F.B. Radio Free Berlin
 R.F.E. Radio Free Europe
 R.I.A.S. Radio im Amerikanischen Sektor

S.D.R. Sueddeutscher Rundfunk
 S.W.F. Sudwestfunk
 V.o.A. Voice of America
 W.D.R. Westdeutscher Rundfunk
 E, H, L or T Denote, respectively, B.B.C. transmitter used for European Service, Home Service, Light Programme or Network Three.

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 23. 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	
2.240	133.90	1	YDB	Djakarta, Java	Indonesia
2.240	133.90	1	YVLG	Maracay	Venezuela
2.350	127.70	1	YDJ3	Djokjakarta, Java	Indonesia
2.425	123.70	7.5	—	Salisbury Rhodesia-Nyasaland Fed.	
2.430	123.50	1	YDK2	Palembang, Java	Indonesia
2.440	123.00	1	YVLG	Maracay	Venezuela
2.460	122.00	3	PJC	Willemstad	Curacao
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
3.223	93.08	3.5	—	Simla	India
3.226	93.03	7.5	CR7AB	Lourenco Marques	Mozambique
3.232	92.80	1.5	—	Brazzaville	French Eq. Africa
3.232	92.80	5	—	Tananarive	Madagascar
3.240	92.60	1	YDR	Ambon, Moluccas	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	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
3.300	90.91	5	—	Belize	British Honduras
3.305	90.77	0.25/10	VUC	Calcutta	India
3.305	90.77	1	—	Tripoli (B.F.N.)	Libya
✕ 3.305	90.77	2	YVKX	Caracas <i>La voz de la Patria</i>	Venezuela
3.315	90.50	3	VQ7LO	Nairobi	Kenya
3.315	90.50	1	YVLI	Maracay	Venezuela

3380 3392 88.87 H12D - Ciudad Trujillo (Onda Musical) Dom. Rep.
 x 3345 89.69 H12S Station and Country

M/s	Metros	kW	Call	Station and Country
3.316	90.52	5	—	Freetown S.I. Broadcasting Serv. Sierra Leone
3.316	90.52	20	—	Paradys South Africa
3.325	90.23	7.5	—	Kaduna Nigeria
3.325	90.23	10	DZB2	Manila, Luzon Philippines
3.325	90.23	1	YVRA	Maturin Venezuela
3.334	89.98	1	YVMU	Carora Venezuela
3.345	89.69	1	ZYN22	Salvador Brazil
3.345	89.69	2.5	YVKP	Caracas Venezuela
3.335	89.96	10	—	Gauhati India
3.355	89.43	1	YVLC	Valencia Venezuela
3.356	89.40	1	YDI	Surabaya, Java Indonesia
3.356	89.40	20	—	Paradys South Africa
3.360	89.28	5	ZQI	Kingston, Jamaica West Indies
3.362	89.23	5	—	St. Georges, Grenada West Indies
3.365	89.15	5	ZOY	Accra Ghana
3.375	88.90	5	YDW	Pontianak, Borneo Indonesia
3.375	88.90	20	—	Paradys South Africa
3.380	88.80	1.5	—	St. Denis Reunion Island
3.385	88.62	1	YVQI	Barcelona Venezuela
3.386	88.60	1	—	Tananarive Madagascar
3.390	88.50	2	YVKX	Caracas Venezuela
3.395	88.35	1	—	Colombo Ceylon
3.395	88.35	10	YDU	Den Pasar, Bali Indonesia
3.395	88.35	1	APL	Lahore Pakistan
3.395	88.35	7.5	—	Salisbury Rhodesia-Nyasaland Fed.
3.395	88.35	1.5	YVOJ	Merida Venezuela
3.790	79.16	2	EQD	Teheran Persia
3.900	76.90	20	—	Khabarovsk, Russia U.S.S.R.
3.910	76.72	10	HLKA	Seoul Korea
3.914	76.65	15/240	—	Peking China
3.914	76.65	1	APL	Lahore Pakistan
3.914	76.65	2.5	ZQP	Lusaka Rhodesia-Nyasaland Fed.
3.925	76.43	5	JOZ	Tokio Japan
3.936	76.24	7.5	YDB4	Djakarta, Java Indonesia
3.937	76.14	15/120	—	Moscow, Russia U.S.S.R.
3.940	76.12	100	—	Allouis France
3.940	76.12	2.5	ZBW3	Victoria Hong Kong
3.950	75.95	100	CSA	Lisbon Portugal
3.955	75.85	7.5	APD	Dacca Pakistan
3.955	75.85	100	HER22	Schwarzenburg Switzerland
3.955	75.85	50/100	MCM	Overseas Service* U.K.
3.960	75.75	1	—	Jidda Saudi Arabia
3.965	75.66	100	—	Allouis France
3.965	75.66	2.5	—	Enugu Nigeria
3.965	75.66	7.5	APD	Dacca Pakistan
3.970	75.57	100	DMR20	Norden Germany (West)
3.975	75.50	5	CQM7	Bissao Portuguese Guinea
3.975	75.50	50/100	GRC	Overseas Service* U.K.
3.978	75.42	7.5	—	Stettin Poland
X3.980	75.38	1	VRH4 or 2?	Suva Fiji Islands
3.980	75.38	10	YDI2	Surabaya, Java Indonesia
X3.980	75.38	35/100	—	Tangier (V.o.A.) Morocco
3.985	75.28	15/120	—	Peking China
X 3.985	75.28	HER 22	250	Schwarzenburg Switzerland

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

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4.680		HCG 61		Ecuador	
Mc/s	Mtress	kW	Call	Station and Country	
3.985	75.28	100	HER22	Schwarzenburg	Switzerland
3.995	75.09	50/100	—	Rome	Italy
4.000	75.00	1	—	Ibadan	Nigeria
4.010	74.81	25	—	Frunze, Kirghiz	U.S.S.R.
4.055	73.98	50	—	Petropavlovsk, Russia	U.S.S.R.
4.065	73.80	15/120	—	Peking	China
4.235	70.84	10	—	Achkhabad, Turkmenia	U.S.S.R.
4.273	70.20	20	—	Khabarovsk, Russia	U.S.S.R.
4.301	6.977	10	YDL	Padang, Sumatra	Indonesia
4.520	66.37	1	—	Vientiane, Laos	Indo-China
4.534	66.08	2	—	Yakutsk, Russia	U.S.S.R.
4.560	65.79	1	—	Guryev, Russia	U.S.S.R.
4.625	64.86	15	—	Alma Ata, Kazak	U.S.S.R.
4.635	64.72	10	YDL	Padang, Sumatra	Indonesia
4.635	64.72	25	—	Stalinabad, Tadzhik	U.S.S.R.
4.650	64.52	7	HC2AK	Guayaquil	Ecuador
4.700	63.83	1	HC4MX	Porteviejo	Ecuador
4.725	63.49	1	HC2VT	Quevedo	Ecuador
4.729	63.45	3	FZI	Brazzaville	French Eq. Africa
4.739	63.30	1	YSC	San Salvador	Salvador
4.752	63.12	3	YDQ2	Macassar, Celebes	Indonesia
4.755	63.09	1	ZYY3	Sao Paulo	Brazil
4.760	63.03	3	—	Leopoldville	Belgian Congo
4.760	63.03	2.5	—	Simla	India
4.767	62.95	3	HJEF	Cali	Colombia
4.770	62.89	10	ELWA	Monrovia	Liberia
4.770	62.89	1	YVMW	Punta Fijo	Venezuela
4.775	62.82	1	CR6RG	Dondo	Angola
4.775	62.82	10	—	Gauhati	India
4.779	62.76	5	HJAB	Barranquilla	Colombia
4.780	62.76	1	TYZ3	Djibouti	French Somaliland
4.780	62.76	5	ZHL7	Singapore	Malaya
4.780	62.76	1	YVLA	Valencia	Venezuela
4.790	62.63	7.5	APD	Dacca	Pakistan
4.791	62.62	7.5	YVQN	Puerto la Cruz	Venezuela
4.792	62.60	3	FZI	Brazzaville	French Eq. Africa
4.795	62.58	1	HJFU	Armenia	Colombia
4.798	62.53	1	YSDR	Santa Ana	Salvador
4.800	62.50	20	—	Lagos	Nigeria
4.800	62.50	1	APL	Lahore	Pakistan
4.800	62.50	20	—	Paradys	South Africa
4.800	62.50	2	YVME	Maracaibo	Venezuela
4.805	62.43	5	ZYS8	Manaos	Brazil
4.807	62.41	10/50	APL	Lahore	Pakistan
4.807	62.41	1	CR5SB	Sao Thome	St. Thomas Island
4.810	62.37	20	—	Paradys	South Africa
4.810	62.37	1	YVMG	Maracaibo	Venezuela
4.815	62.31	1	ZYE2	Macara	Brazil
4.815	62.31	1	HJBB	Cucuta	Colombia
4.815	62.31	1	HI3C	La Romana	Dominican Rep.
4.815	62.31	20/100	VUD	Delhi	India
4.820	62.24	5	ZHL10	Singapore	Malaya
4.820	62.24	1	—	St. Denis	Reunion Island
4.820	62.24	1	YVNB	Coro	Venezuela
4.824	62.19	3	—	Abidjan	Ivory Coast
4.825	62.18	1	HJHC	Pasto	Colombia

Mc/s	Metres	kW	Call	Station and Country
4.825	62.18	15	ZQP	Lusaka Rhodesia-Nyasaland Fed.
4.830	62.10	1	—	Bangkok Thailand
4.830	62.10	1.3	YVOA	San Cristobal Venezuela
4.834	62.05	2	HJKE	Bogota Colombia
4.836	62.06	4	—	Bamako French Sudan
4.840	61.98	10/100	VUB	Bombay India
4.841	61.96	1.5	YVOI	Valera Venezuela
4.842	61.96	1	CR6RO	Silva Porto Angola
4.843	61.95	1	CR6RN	Luanda Angola
4.845	61.92	1	HJGF	Bucaramanga, Colombia
4.846	61.92	1	CSA93	Delgada Azores
4.850	61.86	1	YVMS	Barquisimeto Venezuela
4.852	61.84	1	CR6RQ	Nova Lisboa Angola
4.855	61.79	1	CR6RA	Luanda Angola
4.855	61.79	1	HJFB	Neiva Colombia
4.855	61.79	10	YDK	Palambang, Sumatra Indonesia
4.860	61.73	1	—	Srinagar Kashmir
4.860	61.73	1	YVPA	San Felipe Venezuela
4.865	61.66	2	PRC5	Belem Brazil
4.865	61.66	10	YDR	Ambon, Moluccas Indonesia
4.867	61.65	1	HJFA	Pereira Colombia
4.868	61.63	1	CR6RN	Luanda Angola
4.868	61.63	7.5	CR7BV	Lourenco Marques Mozambique
4.870	61.60	11	ZOI	Colombo Ceylon
4.875	61.55	1	HJFH	Armenia Colombia
4.875	61.55	20	ZRG	Paradys South Africa
4.876	61.54	20/100	VUD	Delhi India
4.880	61.48	10	YDG	Surakarta, Java Indonesia
4.880	61.48	7.5	YVKF	Caracas Venezuela
4.885	61.41	6	VQ7LO	Nairobi 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-?N	Caracas <i>R. Nacional - Caracas</i> 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	10	VLX4	Perth, W.A. Australia
4.897	61.26	1	HJAG	Barranquilla Colombia
4.900	61.22	11	—	Colombo Ceylon
4.900	61.22	1	FGF	Cotonou Dahomey
4.900	61.22	1	YVQE	Ciudad Bolivar Venezuela
4.901	61.21	7.5	—	Lagos Nigeria
4.905	61.16	5	ZYZ20	Rio de Janeiro Brazil
4.905	61.16	4	—	Fort Lamy, Chad French Eq. Africa
4.910	61.10	4	—	Conakry French Guinea
4.910	61.10	3	HC1MI-?J	Quito <i>Emisora Gran Colombia</i> Ecuador
4.910	61.10	1	YDB2	Djakarta, Java Indonesia
4.910	61.10	10/50	APK	Karachi Pakistan
4.915	61.04	1	HJEQ	Popayan Colombia
4.915	61.04	1.3/5	ZOY	Accra Ghana
4.920	60.98	10	VLM4	Brisbane, Queensland Australia
4.920	60.98	10/100	VUM	Madras India
4.923	60.95	5	YVKR	<i>R.</i> Caracas Venezuela
4.925	60.94	1	ZYI21	Natal Brazil

Mcs	Metres	kW	Call	Station and Country	
4.926	60.93	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	HC1RC	Quito	Ecuador
4.930	60.85	5	CR8AB	Goa	Goa
4.930	60.85	7.5	—	Benghazi (B.F.N.)	Libya
4.933	60.82	6	VQ7LO	Nairobi	Kenya
4.935	60.79	1	HJLF	Ibague	Colombia
4.940	60.73	11	—	Colombo	Ceylon
X4.940	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
X4.945	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	1	ZQI	Kingston, Jamaica	West Indies
X4.950	60.61	1	YVMM	R. Coro	Venezuela
4.956	60.53	1	—	Blagoveshchensk, Russia	U.S.S.R.
X4.957	60.49	1	CR6RA	Luanda	Angola
4.957	60.49	10	HJCQ	Bogota	Colombia
X4.957	60.49	2	—	Baku, Azerbaidjan	U.S.S.R.
4.960	60.48	20/100	VUD	Delhi	India
4.960	60.48	1	YVQA	Cumana	Venezuela
4.965	60.45	7.5	—	Colombo	Ceylon
4.965	60.45	1	HJAE	Cartagena	Colombia
4.965	60.45	10	—	Lusaka	Rhodesia-Nyasaland Fed.
4.970	60.36	5	VQA82	Jesselton	British North Borneo
4.970	60.36	7.5	CR7BU	Lourenco Marques	Mozambique
4.970	60.36	40	—	Kiev, Ukraine	U.S.S.R.
4.972	60.35	1	YVLK	Caracas	Venezuela
4.975	60.30	2.5	ZYY9	Sao Luiz	Brazil
4.975	60.30	1	—	Yaounde	Cameroons
4.975	60.30	3	—	Brazzaville	French Eq. Africa
4.978	60.27	4	—	Mogadishu	Somalia
4.982	60.22	5	YDN2	Kutaradja, Sumatra	Indonesia
X4.982	60.12	15	YVMQ	R. Barquisimeto	Venezuela
X4.990	60.12	20	—	Lagos	Nigeria
X4.995	60.06	1	ZYY2	Goiana	Brazil
4.995	60.06	10	—	Magadan, Russia	U.S.S.R.
4.995	60.06	10	—	Petrozavodsk, Karelia	U.S.S.R.
5.007	59.91	6.5	—	Khartoum	Sudan
5.010	59.88	10	HJCQ	Bogota	Colombia
5.010	59.88	5	—	St. Georges, Grenada	West Indies
5.015	59.82	10	—	Rio de Janeiro	Brazil
5.016	59.81	20	—	Vladivostok, Russia	U.S.S.R.
5.020	59.76	1	—	Colombo	Ceylon
5.022	59.73	1	CR6RH	Sa da Bandeira	Angola
5.027	59.68	1	HJFW	Manizales	Colombia
5.027	59.68	7.5	—	Kampala	Uganda
5.029	59.65	7.5	YVKM	Caracas	Venezuela
5.035	59.57	5	YVMA	Maracaibo	Venezuela
5.036	59.55	4	—	Lome	Togoland
5.040	59.59	10	—	Tiflis, Georgia	U.S.S.R.
5.042	59.50	1	CR6RF	Benguela	Angola
5.045	59.46	5	ZYP23	Rio de Janeiro	Brazil

X 5.960 50.34
X 5.960 50.34

V902

Radio Casino

Solomon Islands
Costa Rica

Mc/s	Metres	kW	Call	Station and Country	
5.045	59.46	5	—	Bosnek, Biak	Dutch New Guinea
5.047	59.44	2.5	YVKD	Caracas	Venezuela
5.050	59.41	20	—	Dar-es-Salaam	Tanganyika
5.050	59.41	50	—	Petropavlovsk, Russia	U.S.S.R.
5.053	59.38	5	—	Kuching	Sarawak
5.055	59.35	1	ZYO23	Espirito Santo	Brazil
5.055	59.35	5	HJDW	Medellin	Colombia
5.060	59.29	1.5	4VDP	Les Gonaires	Haiti
5.060	59.29	7.5	YDJ	Djakakarta, Java	Indonesia
5.065	59.25	10	—	Petrozavodsk, Karelia	U.S.S.R.
5.067	59.23	1	YDM2	Bukittinggi, Sumatra	Indonesia
5.075	59.10	1	HJKH	Sutatenza	Colombia
5.085	58.96	1	—	Havana	Cuba
5.110	58.71	20	—	Khabarovsk, Russia	U.S.S.R.
5.125	58.55	15/240	—	Peking	China
5.210	57.58	15/120	—	Moscow, Russia	U.S.S.R.
5.220	57.45	15/240	—	Peking	China
5.225	57.39	—	—	Novosibirsk, Russia	U.S.S.R.
5.230	57.36	15/120	—	Moscow, Russia	U.S.S.R.
5.260	57.03	15	—	Alma Ata, Kazak	U.S.S.R.
5.270	56.93	15/120	—	Moscow, Russia	U.S.S.R.
5.290	56.71	—	—	Krasnoyarsk, Russia	U.S.S.R.
5.455	55.00	15/120	—	Moscow, Russia	U.S.S.R.
5.470	54.84	10	—	Frankfurt (A.F.N.)	Germany (West)
5.560	53.96	20	—	Khabarovsk, Russia	U.S.S.R.
5.700	52.63	—	—	Pyongyang	Korea
X 5.740	52.26	5	—	Erivan, Armenia	U.S.S.R.
5.740	52.26	15/120	—	Moscow, Russia	U.S.S.R.
5.750	52.20	1	CE8AA	Santiago	Chile
5.755	52.12	5	4VC	Port au Prince	Haiti
Now 560 X 5.875	51.06	1	HROW	Tegucigalpa R. Montserrat	Honduras Rep.
5.880	51.08	15/240	—	Peking	China
5.892	50.91	5	ZRK	Cape Town	South Africa
5.900	50.85	15	—	Alma Ata, Kazak	U.S.S.R.
5.905	50.81	15/120	—	Moscow, Russia	U.S.S.R.
X 5.915	50.72	15/120	—	Moscow, Russia	U.S.S.R.
5.920 X 5.930	50.59	15/120	— <5	Moscow, Russia	U.S.S.R.
X 5.940	50.51	15/120	—	Moscow, Russia	U.S.S.R.
5.950	50.42	1.5	EA9AH	Tetuan	Morocco
5.952	50.40	5	TGNA	Guatemala City	Guatemala
5.953	50.39	100	—	Allouis	France
X 5.953	50.39	7.5/100	—	Warsaw	Poland
5.955	50.38	7.5	—	Sao Paulo	Brazil
5.955	50.38	3.5	BEC28	Taipei	Formosa
5.960	50.34	1	HJCF	Bogota	Colombia
5.960	50.34	35	—	Athens	Greece
X 5.960	50.34	2	HRN	Tegucigalpa	Honduras Rep.
5.960	50.34	50/100	—	Rome	Italy
5.960	50.34	50/100	CSA	Lisbon	Portugal
5.960	50.34	25	—	Dakar	Senegal
5.960	50.34	15/120	—	Moscow, Russia	U.S.S.R.
5.965	50.30	100	—	Allouis	France
5.965	50.30	1	HOLY	Panama City	Panama
5.965	50.30	10	—	Jidda	Saudi Arabia
5.965	50.30	15/120	—	Moscow, Russia	U.S.S.R.
5.966	50.29	1	YNWW	Granada	Nicaragua
5.967	50.27	3	FZI	Brazzaville	French Eq. Africa

CLOSED

U.S.S.R.

6 000	50-00	OEI 20	Wien.	Österreich.
Mc/s	Metres	kW	Call	Station and Country
5.968	50.27	50	—	Rabat Morocco
5.970	50.25	50	CKNA	Sackville, N.B. Canada
X 5.970	50.25	7.5	HI4T	Ciudad Trujillo Dominican Rep.
5.970	50.25	10	YDO2	Bandjermassin, Borneo Indonesia
5.970	50.25	7.5	APD	Dacca Pakistan
5.970	50.25	5	ZPA1	Asuncion Paraguay
5.970	50.25	2	OBX4Q	Lima Peru
X 5.973	50.23	1	HRVW	San Pedro Sula Honduras Rep. <i>VCA</i>
X 5.974	50.22	7.5/100	—	Warsaw Poland
5.974	50.22	3	—	Jidda Saudi Arabia
5.975	50.21	50/100	MCP	Overseas Service* U.K.
5.975	50.21	15/120	—	Moscow, Russia U.S.S.R.
X 5.979	50.18	25	—	R. Andorra Andorra
5.979	50.18	5	HJDY	Medellin Colombia
5.979	50.18	1	TGAR	Guatemala City Guatemala
5.980	50.17	5	VQA52	Jesselton British North Borneo
5.980	50.17	1.5	BEC26	Tsoying Formosa
5.980	50.17	100	DMR25	Norden Germany (West)
X 5.980	50.17	7.5	—	Port au Prince R. Commerce Haiti
5.980	50.17	100	HLKA	Seoul Korea
X 5.980	50.17	7.5	APD	Dacca Pakistan
X 5.980	50.17	5	—	Bucharest Rumania
5.980	50.17	1	YSWW	Santa Ana Salvador
5.980	50.17	5	—	Freetown Sierra Leone
5.980	50.17	15/120	—	Moscow, Russia U.S.S.R.
5.980	50.17	5	—	St. Georges, Grenada West Indies
5.981	50.16	50	—	Leopoldville Belgian Congo
X 5.981	50.16	2	ZFY	Georgetown P. Demerara British Guiana
X 5.984	50.14	4	OEI30	Vienna Austria
5.985	50.13	10	BED29	Taipei Formosa
5.985	50.13	1	—	Sana'a Yemen
5.986	50.12	5	LRS1	Buenos Aires Argentina
5.990	50.08	1	TIQ	Limon Costa Rica
X 5.990	50.08	1	TGJA	Guatemala City R. El Mundo Guatemala
X 5.990	50.08	1	HRP1	San Pedro Sula Honduras Rep.
5.990	50.08	20/100	VUD	Delhi India
X 5.990	50.08	5	YDS2	Menado, Celebes Indonesia
5.990	50.08	10/50	APK	Karachi Pakistan
5.990	50.08	1	HO50	Panama City Panama
5.990	50.08	50/100	MCU	Overseas Service* U.K.
5.990	50.08	50	—	Komsomolsk, Russia U.S.S.R.
5.993	50.06	100	—	Allouis France
5.995	50.04	1	YNDG	Leon Nicaragua
5.995	50.04	7.5/100	—	Warsaw Poland
5.995	50.04	100	—	Madrid Spain
5.995	50.04	15/120	—	Moscow, Russia U.S.S.R.
6.000	50.00	5	PRK5	Belo Horizonte Brazil
6.000	50.00	5	HJKD	Bogota Colombia
6.000	50.00	1	DZH4	Manila, Luzon Philippines
X 6.000	50.00	15/120	—	Moscow, Russia U.S.S.R.
6.000	50.00	5	CXA2	Montevideo Uruguay
6.004	49.97	7.5	—	Colombo Ceylon
6.005	49.96	1	CFCX	Montreal, Quebec Canada
X 6.005	49.96	20	—	Berlin (R.I.A.S.) Germany (West)
6.005	49.96	1	HP5K	Colon Panama
6.005	49.96	20	—	Paradys South Africa

Mc/s | Metres | kW | Call | Station and Country

Mc/s	Metres	kW	Call	Station and Country
6.006	49.95	1	—	Rabat Morocco
*6.007	49.94	1	TIHBG	San Jose <i>R. Relej</i> Costa Rica
*6.010	49.92	1	CJCX	Sydney, Nova Scotia Canada
6.010	49.92	5	CE601	Antofagasta Chile
6.010	49.92	30	OLR2A	Podebrady C-R-T. Czechoslovakia
6.010	49.92	0.25/10	VUC	Calcutta India
6.010	49.92	50/100	—	Rome R-T-I Italy
6.010	49.92	5	YSS	San Salvador Salvador
6.010	49.92	50/100	GRB	Overseas Service* U.K.
6.012	49.90	1.2	4VYM	Port au Prince Haiti
6.015	49.88	5	PRA8	Recife Brazil
6.015	49.88	35	—	Salonika (V.o.A.) Greece
6.018	49.85	7.5	—	Rangoon Burma
6.018	49.85	7.5	ZEAJ	Salisbury Rhodesia-Nyasaland Fed.
6.019	49.84	1	OAX4Q	Lima Peru
6.020	49.83	5	HJCX	Bogota Colombia
*6.020	49.83	5	PCD	Lopik <i>RNW</i> Netherlands
6.020	49.83	7.5	ZL20	Wellington New Zealand
6.020	49.83	50/200	KNBH	Dixon, Cal. U.S.A.
*6.020	49.83	40	—	Kiev, Ukraine <i>KRC</i> U.S.S.R.
6.020	49.83	50	—	Komsomolsk, Russia U.S.S.R.
*6.025	49.79	50	ZYR63	Sao Paulo <i>R. Emunson de Pinheiro</i> Brazil
*6.025	49.79	100	OLR2F	Podebrady <i>CRT</i> Czechoslovakia
*6.025	49.79	5	VS2KC	Kuala Lumpur <i>?: Kajang?</i> R. Malaya
6.025	49.79	5/20	—	Tangier Morocco
*6.025	49.79	40	—	Lopik <i>RNW</i> Netherlands
6.025	49.79	7.5/100	—	Warsaw <i>KSR/PR</i> Poland
6.028	49.77	2	TGTQ	Guatemala City Guatemala
6.030	49.75	3	—	Elizabethville Belgian Congo
*6.030	49.75	10	—	Stuttgart (S.D.R.) Germany (West)
6.030	49.75	1	XEKW	Morelia Mexico
6.030	49.75	1	APL	Lahore Pakistan
6.030	49.75	1	DZH6	Manila, Luzon Philippines
6.030	49.75	15/120	—	Moscow, Russia U.S.S.R.
*6.035	49.71	10	ZYC26	Sao Paulo Brazil
6.035	49.71	2	TIFCZ	San Jose Costa Rica
6.035	49.71	1-50	HRTL-2	Tela <i>R. Tegucigalpa</i> Honduras Rep.
*6.035	49.71	30	3AM3	Monte Carlo <i>RMC</i> Monaco
*6.035	49.71	1	FK8AA	Noumea New Caledonia
6.035	49.71	7.5/100	—	Warsaw <i>KSR/PR</i> Poland
6.035	49.71	50/100	GWS	Overseas Service* <i>Bnc</i> U.K.
6.035	49.71	15/120	—	Moscow, Russia U.S.S.R.
6.035	49.71	1	CXA30	Montevideo Uruguay
6.036	49.70	10	CR6RZ	Luanda Angola
6.036	49.70	1.5	TIHVC	San Jose Costa Rica
6.040	49.67	10	HJLV	Cali Colombia
*6.040	49.67	10	HJLB	Ibague <i>su voz de Tolima</i> Colombia <i>V. de Tolima</i>
6.040	49.67	8/100	—	Munich (V.o.A.) Germany (West)
6.040	49.67	50/100	GSY	Overseas Service* <i>BBC</i> U.K.
6.040	49.67	20/100	VUD	Delhi <i>AIR</i> India
6.040	49.67	2.5	—	Simla India
6.040	49.67	2	ZM2AP	Apia Samoa
6.040	49.67	15/120	—	Moscow, Russia U.S.S.R.
6.045	49.63	7.5	ZYS33	Curityba Brazil
*6.045	49.63	100	—	Allouis <i>RTF</i> France
6.045	49.63	100	YDF	Djakarta, Java <i>RRI</i> Indonesia

Mc/s	Mctres	kW	Call	Station and Country
6.045	49.63	5	XETW	Tampico Mexico
6.045	49.63	1	HOU31	David Panama
6.045	49.63	15/120	—	Moscow, Russia U.S.S.R.
6.047	49.61	1	—	Amman Jordan
6.050	49.59	1	HCJB	Quito Ecuador
6.050	49.59	50/100	GSA	Overseas Service* U.K.
6.050	49.59	50	—	Komsomolsk, Russia U.S.S.R.
6.050	49.59	15/120	—	Moscow, Russia U.S.S.R.
6.050	49.59	2	—	Tiflis, Georgia U.S.S.R.
X 6.053	49.57	2.5	HJEX	Cali <i>R. Pacific</i> Colombia
6.055	49.55	5	PRB21	Sao Paulo Brazil
X 6.055	49.55	30	OLR	Podebrady Czechoslovakia
6.055	49.55	5	JOZ2	Tokio Japan
6.055	49.55	25	HER2	Schwarzenburg Switzerland
6.055	49.55	5	CXA14	Montevideo Uruguay
6.055	49.55	10	—	Petrozavodsk, Karelia U.S.S.R.
6.060	49.50	50	CKRZ	Sackville, N.B. Canada
6.060	49.50	50	OZF3	Copenhagen Denmark
6.060	49.50	1.5	TGXX	Guatemala City Guatemala
6.060	49.50	20/100	VUD	Delhi India
6.060	49.50	—	—	Caltanissetta Italy
6.060	49.50	3	VQ7LO	Nairobi Kenya
6.060	49.50	1	HORT	Panama City Panama
6.060	49.50	7.5/50	—	Manila, Luzon (V.o.A.) Philippines
6.060	49.50	50/100	GSX	Overseas Service* U.K.
6.061	49.49	1	HRYN2	San Pedro Sula Honduras Rep.
6.062	49.47	2	—	Bangkok Thailand
6.063	49.47	25	LRA 31	Buenos Aires Argentina
6.065	49.46	1	HC2FQ	Guayaquil Ecuador
6.065	49.46	1	YNEG	Managua Nicaragua
X 6.065	49.46	100	—	Horby Sweden
X 6.065	49.46	15/120	—	Moscow, Russia U.S.S.R.
6.066	49.45	15/240	—	Peking China
X 6.070	49.42	5/120	—	Sofia Bulgaria
6.070	49.42	1	CFRX	Toronto, Ontario Canada
6.070	49.42	5	CE607	Santiago Chile
6.070	49.42	3.5/50	BED44	Taipei Formosa
6.070	49.42	10/50	APK	Karachi Pakistan
6.070	49.42	50/100	GRR	Overseas Service* U.K.
6.073	49.41	7.5	—	Athens Greece
X 6.075	49.38	100	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	10	—	Erivan, Armenia U.S.S.R.
6.075	49.38	15/120	—	Moscow, Russia U.S.S.R.
6.075	49.38	2.5	CXA3	Montevideo Uruguay
6.080	49.34	8/100	—	Munich (V.o.A.) Germany (West)
6.080	49.34	7.5	ZL7	Wellington New Zealand
6.080	49.34	10	DZI7	Manila, Luzon Philippines
6.080	49.34	1	CSB21	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	3	—	Stanleyville Belgian Congo
X 6.085	49.30	16	ZYK2	Recife <i>R. Formosa Comercio</i> Brazil
X 6.085	49.30	10	—	Munich (B.R.) Germany (West)

6120 4902 1 - - -
 6090 4926 XEHT El Monte R. Vigo Ecuador Mexico

Mc/s	Metros	kW	Call	Station	Country
6.085	49.30	10/100	VUM	Madras	India
6.086	49.29	15/240	—	Peking	China
6.086	49.29	7.5	—	Tabris	Persia
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
X 6.090	49.26	1	—	Pnompenh, Cambodia	Indo-China
X 6.090	49.26	5	—	Luxembourg	Luxembourg
6.090	49.26	10/50	APK	Karachi	Pakistan
6.090	49.26	50/100	GWM	Overseas Service*	U.K.
X 6.095	49.22	25	ZYB7	Sao Paulo R. P. Jussora SP	Brazil
6.095	49.22	7.5	—	Colombo	Ceylon
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
X 6.100	49.18	10	YUA	Belgrade	Yugoslavia
6.101	49.17	7.5	—	Enugu	Nigeria
6.101	49.17	2	—	Jidda	Saudi Arabia
6.103	49.16	5	ZYN6	Fortaleza	Brazil
6.104	49.15	1	4VWJ	Cap-Haitien	Haiti
6.105	49.14	4.5	HJFD	Manizales	Colombia
6.105	49.14	30	—	Podebrady	Czechoslovakia
6.105	49.14	3	BEC22	Taipei	Formosa
6.105	49.14	7.5/100	—	Warsaw	Poland
6.105	49.14	15/120	—	Moscow, Russia	U.S.S.R.
6.110	49.10	1	TGQA	Quezaltenango	Guatemala
6.110	49.10	1	HRXX	Comayaguella	Honduras Rep.
6.110	49.10	1	—	Srinagar	Kashmir
6.110	49.10	7.5/100	—	Tebrau	Malaya
6.110	49.10	7.5	DZI3	Manila, Luzon	Philippines
6.110	49.10	50/100	GSL	Overseas Service*	U.K.
6.110	49.10	—	—	Leningrad, Russia	U.S.S.R.
6.111	49.09	2.5	XE10	Mexico City	Mexico
6.113	49.08	1	—	Tangier	Morocco
6.115	49.06	1	FLA6	Duala	Camaroons
6.115	49.06	1	HI1Z	Ciudad Trujillo	Dominican Rep.
X 6.115	49.06	5	—	R Berlin International	Germany (East)
6.115	49.06	7.5/100	—	Warsaw	Poland
6.115	49.06	20	—	Kharbarovsk, Russia	U.S.S.R.
6.115	49.06	50	—	Komsomolsk, Russia	U.S.S.R.
6.120	49.02	1	LRX1	Buenos Aires	Argentina
X 6.120	49.02	7.5	ZJM4	Limassol	Cyprus
X 6.120	49.02	15	OIX7	Pori	Finland
6.120	49.02	8/100	—	Munich (V.o.A.)	Germany (West)
6.120	49.02	15/120	—	Moscow, Russia	U.S.S.R.
6.124	48.99	1	HRQ	San Pedro R. Saizay	Honduras Rep. -SP Sulu
X 6.125	48.98	7.5	—	Sao Paulo R. Nacional de SP	Brazil
6.125	48.98	1	—	Saigon, Vietnam	Indo-China
6.125	48.98	50/100	GWA	Overseas Service*	U.K.
6.127	48.97	10	—	Jidda	Saudi Arabia
6.130	48.94	1	CHNX	Halifax, Nova Scotia	Canada
6.130	48.94	1	COCD	Havana	Cuba
X 6.130	48.94	10	LKJ	Fredrikstad	Norway

Mc/s	Metres	kW	Call	Station and Country	Station and Country
X6.130	48.94	2	VL76	Port Moresby	Papua
6.130	48.94	1	OAX7A	Cuzco	Peru
X6.130	48.94	50/200	—	Madrid	Spain
6.130	48.94	10	CXA4	Montevideo	Uruguay
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	R. Malaya
6.135	48.90	7.5/100	—	Warsaw	Poland
X6.135	48.90	1	FO8AA	Papeete	R. 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	10	VLX6	Perth, W.A.	Australia
X6.140	48.86	8/100	—	Munich (V.o.A.)	Germany (West)
X6.140	48.86	2	—	Tripoli	Libya
X6.140	48.86	35/100	—	Tangier (V.o.A.)	Morocco
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.
6.142	48.85	3	OTMI	Leopoldville	Belgian Congo
6.145	48.82	5	HJDE	Medellin	Colombia
6.145	48.82	100	—	Allouis	France
6.145	48.82	2.5	—	Enugu	Nigeria
6.145	48.82	35	—	Okinawa (V.o.A.)	Okinawa Island
6.146	48.80	50/200	—	Madrid	Spain
X6.147	48.79	50	PRL9	Rio de Janeiro	R. Nasuma/0 RoJ Brazil
6.150	48.78	2	VLR6	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	1	4VWA	Cap Haitien	Haiti
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.
X6.150	48.78	100	YUA	Belgrade	Yugoslavia
6.152	48.76	2	TIRH	San Jose	Costa Rica
X6.152	48.76	10	CSB52	Lisbon	R. Benarancia Portugal
X6.155	48.74	4	OEI21	Vienna	Austria
6.155	48.74	10	HJKC	Bogota	Colombia
6.155	48.74	1	—	Conakry	Guinea
6.155	48.74	35	—	Salonika (V.o.A.)	Greece
6.155	48.74	7.5	—	Isfahan	Persia
6.155	48.74	2	EQB	Teheran	Persia
6.155	48.74	3	—	Jidda	Saudi Arabia
6.156	48.74	5	CXA13	Montevideo	Uruguay
6.160	48.70	10	—	Algiers	Algeria
6.160	48.70	1	CP40	Cochabamba	Bolivia
6.160	48.70	50	CHAC	Sackville, N.B.	Canada
X6.163	48.69	5	HJKJ	Bogota	Colombia
6.165	48.66	7.5	ZYR58	Sao Paulo	Brazil
6.165	48.66	2	TILS	San José	Costa Rica
6.165	48.66	6	—	Khartoum	Sudan
X6.165	48.66	100	HER3	Schwarzenburg	Switzerland
6.165	48.66	20	—	Damascus	Syria
6.165	48.66	50/100	GWK	Overseas Service*	U.K.
X6.165	48.66	15/120	—	Moscow, Russia	U.S.S.R.

6.175 4858		100	-	Allouis	France
Mc/s	Metres	kW	Call	Station and Country	
X6.170	48.62	7.5	ZJM5	Limassol	Cyprus
6.170	48.62	8/100	—	Munich (V.o.A.)	Germany (West)
6.170	48.62	10	YDL3	Padang, Sumatra	Indonesia
6.170	48.62	1	DUH2	Manila, Luzon	Philippines
6.170	48.62	50/100	GSZ	Overseas Service*	U.K.
6.170	48.62	1	CXA21	Montevideo	Uruguay
6.170	48.62	2	YVKO	Caracas	Venezuela
X6.172	48.60	30	OLR	Kostalany	Czechoslovakia
6.172	48.60	1	FIQA	Tananarive	Madagascar
6.175	48.58	1.5	HRTW	Tegucigalpa	Honduras Rep.
6.175	48.58	7.5/100	—	Tebrau	Malaya
6.175	48.58	2.5	—	Enugu	Nigeria
6.176	48.57	2	—	Jidda	Saudi Arabia
X6.180	48.54	10	LRA34	Buenos Aires	Argentina
X6.180	48.54	1	TGWB	Guatemala City	Guatemala
6.180	48.54	50/100	GRO	Overseas Service*	U.K.
6.180	48.54	10	—	Achkhabad, Turkmenia	U.S.S.R.
6.180	48.54	15/120	—	Moscow, Russia	U.S.S.R.
6.183	48.52	10	HJCT	Bogota	Colombia
6.185	48.50	10	ZYR77	Sao Paulo	Brazil
6.185	48.50	50/200	KCBR	Delano, Cal.	U.S.A.
6.187	48.49	1	YSUA	San Salvador	Salvador
X6.188	48.49	16	—	Baghdad	Iraq
6.188	48.49	2	—	Tripoli	Libya
6.190	48.47	1	CE619	Santiago	Chile
X6.190	48.47	20/100	VUD	Delhi	India
6.190	48.47	10/100	VUM	Madras	India
6.190	48.47	5/100	HVJ	Vatican City	Vatican City
X6.195	48.43	7.5	—	Nittheroy R-Embassy	Brazil (Red.)
6.195	48.43	5	HJEZ	Cali	Colombia
X6.195	48.43	100	—	Budapest	Hungary
6.195	48.43	—	—	Pyongyang	Korea
6.195	48.43	50/100	GRN	Overseas Service*	U.K.
6.195	48.43	—	—	Leningrad, Russia	U.S.S.R.
X6.194	48.44	7.5/100	—	Warsaw	Poland
X6.200	48.39	100	—	Allouis	France
6.200	48.39	4	—	Fort Lamy, Chad	French Eq. Africa
6.200	48.39	1.5	4VHW	Port au Prince	Haiti
6.200	48.39	15/100	—	Moscow, Russia	U.S.S.R.
6.208	48.32	8	—	Malaga	Spain
6.210	48.31	1	TGDA	Quezaltenango	Guatemala
6.210	48.31	5	—	Bucharest	Rumania
6.216	48.26	1.5	YSO	San Salvador	Salvador
6.220	48.23	10/50	APK	Karachi	Pakistan
6.225	48.19	15/240	—	Peking	China
6.235	48.12	50	APK	Karachi	Pakistan
6.245	48.04	—	—	Pyongyang	Korea
6.267	47.87	1	—	Istanbul	Turkey
6.268	47.86	7.5	—	Mytilene	Greece
6.297	47.64	1	OAX4H	Lima	Peru
6.320	47.47	1	OAX6E	Arequipa	Peru
6.355	47.21	1	CR6RZ	Luanda	Angola
6.373	47.09	50/100	CSA21	Lisbon	Portugal
6.500	46.15	2	—	Beirut	Lebanon
6.665	45.02	100	—	Allouis	France
6.719	44.65	7.5	4XB44	Tel Aviv	Israel

Mc/s	Metres	kW	Call	Station and Country	Station and Country
7.010	42.81			Karachi	Pakistan
7.125	42.11	7.5/100	-	WARSAWA	Poland
6.750	44.58	100	-	Allouis RTF	France
6.730	44.58	15	---	Tashkent, Uzbek	U.S.S.R.
6.790	44.18	15/240	---	Peking	China
X6.790	44.18	7.5	ZJM6	Limassol	Cyprus
6.790	44.18	15	---	Alma Ata, Kazak	U.S.S.R.
X6.825	43.96	5	---	Tashkent, Uzbek	U.S.S.R.
X6.875	43.65	5	---	Tashkent, Uzbek	U.S.S.R.
6.890	43.54	15/240	---	Peking	China
X6.900	43.48	3	---	Tirane	Albania
6.930	43.29	15/120	---	Moscow, Russia	U.S.S.R.
6.980	42.98	15/120	---	Moscow, Russia	U.S.S.R.
6.995	42.89	15/240	---	Peking	China
6.995	42.89	3	EAJ3	Valencia <i>P. Mediterraneo</i>	Spain
7.005	42.83	1	---	Valladolid	Spain
7.008	42.81	50	APK	Karachi	Pakistan
7.025	42.70	4	FO8AA	Papeete	Tahiti
7.050	42.55	100	---	Allouis	France
X7.050	42.55	50/100	---	Cairo	Egypt
7.071	42.43	5	CR8AB	Goa	Goa
7.078	42.37	3	---	Jidda	Saudi Arabia
X7.080	42.37	15/240	---	Peking	China
7.080	42.37	5/100	VUD	Delhi	India
7.082	42.36	1	---	Istanbul	Turkey
7.090	42.31	7.5/100	---	Warsaw	Poland
7.090	42.31	1	---	Madrid	Spain
X7.095	42.28	15/120	---	Moscow, Russia	U.S.S.R.
7.100	42.25	20	YDJ2	Djakarta, Java	Indonesia
7.100	42.25	35/100	---	Tangier (V.o.A.)	Morocco
7.100	42.25	1	---	Katmandu	Nepal
X7.100	42.25	50/200	---	Madrid	Spain
X7.100	42.25	15/120	---	Moscow, Russia	U.S.S.R.
X7.100	42.25	5	---	Tashkent, Uzbek	U.S.S.R.
7.105	42.22	100	---	Allouis	France
7.105	42.22	20/100	VUD	Delhi	India
7.105	42.22	2.5	HS3PN	Bangkok	Thailand
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	7.5/100	---	Warsaw	Poland
7.110	42.19	10	---	Kampala	Uganda
7.110	42.19	50/100	MCS	Overseas Service*	U.K.
X7.115	42.16	15/120	---	Moscow, Russia	U.S.S.R.
7.120	42.13	100	---	Allouis	France
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.
7.125	42.11	20/100	VUD	Delhi	India
7.125	42.11	10	---	Gauhati	India
7.125	42.11	4	FO8AA	Papeete	Tahiti
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.
X7.132	42.07	30	3AM4	Monte Carlo	Monaco
7.132	42.07	2	---	Jidda	Saudi Arabia
X7.132	42.07	40	---	Kiev, Ukraine	U.S.S.R.
X7.135	42.05	4	OEI31	Vienna	Austria

Mc/s	Metres	kW	Call	Station and Country	
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	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	1	CR6RD	Nova Lisboa	Angola
7.150	41.96	100	—	Berlin	Germany (East)
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	50	—	Komsomolsk, Russia	U.S.S.R.
7.150	41.96	15/120	—	Moscow, Russia	U.S.S.R.
7.155	41.93	8/100	—	Munich (V.o.A.)	Germany (West)
7.155	41.93	1	FIQA	Tananarive	Madagascar
7.155	41.93	15/120	—	Moscow, Russia	U.S.S.R.
7.160	41.90	100	—	Allouis	France
7.160	41.90	35	—	Okinawa (V.o.A.)	Okinawa Island
7.160	41.90	5	—	Santa Isabel	Spanish Guinea
7.167	41.86	20	—	Dar es Salaam	Tanganyika
7.170	41.84	7.5	—	Aden	Aden
7.170	41.84	15/240	—	Peking	China
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.
7.170	41.84	15/120	—	Moscow, Russia	U.S.S.R.
7.172	41.83	6	VQ7LO	Nairobi	Kenya
7.175	41.81	—	—	Caltanissetta	Italy
7.175	41.81	7.5/100	—	Warsaw	Poland
7.175	41.81	15/120	—	Moscow, Russia	U.S.S.R.
7.180	41.78	5	VQA82	Jesselton	British North Borneo
7.180	41.78	20/100	VUD	Delhi	India
7.180	41.78	16	—	Baghdad	Iraq
7.180	41.78	100	HLKA	Seoul	Korea
7.180	41.78	2	—	Benghazi	Libya
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	40	—	Kiev, Ukraine	U.S.S.R.
7.189	41.74	2.5	4XB21	Tel Aviv	Israel
7.190	41.72	7.5	—	Colombo	Ceylon
7.192	41.71	50	—	Tel Aviv	Israel
7.200	41.67	15/240	—	Peking	China
7.200	41.67	7.5	ZHL10	Singapore	R. 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	100	DMR31	Norden	Germany (West)
7.205	41.64	7.5/100	—	Warsaw	Poland
7.208	41.62	1	—	Hue, Vietnam	Indo-China
7.210	41.61	0.25/10	VUC	Calcutta	India
7.210	41.61	10	LLS	Tromso	Norway

	Mc/s	Metres	kW	Call	Station and Country	
	7.210	41.61	—	—	7-1-7 R.SHQIPENSE SOCIALIST	Albania
x	7.210	41.61	100	—	Horby	Sweden
x	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.
	7.211	41.60	7.5	CR7BX	Lourenco Marques	Mozambique
	7.214	41.59	50	—	Rabat	Morocco
	7.215	41.58	15/120	—	Moscow, Russia	U.S.S.R.
	7.220	41.55	50	VLC7	Shepparton, Victoria	Australia
	7.220	41.55	100	—	Allouis	France
	7.220	41.55	2	—	Benghazi	Libya
	7.220	41.55	50/100	—	Overseas Service*	U.K.
x	7.222	41.54	100	—	Budapest	Hungary
	7.225	41.52	15/240	—	Peking	China
	7.225	41.52	1	APL	Lahore	Pakistan
	7.230	41.49	1	CR6RM	Mossamedes	Angola
	7.230	41.49	20/100	VUD	Delhi	India
	7.230	41.49	10	WTAN	Tangier	Morocco
	7.230	41.49	20	—	Paradys	South Africa
	7.230	41.49	50/100	GSW	Overseas Service*	U.K.
x	7.230	41.49	15/120	—	Moscow, Russia	U.S.S.R.
x	7.235	41.47	30	OLR	Podebrady	Czechoslovakia
	7.235	41.47	35/100	—	Tangier (V.o.A.)	Morocco
	7.235	41.47	15/120	—	Moscow, Russia	U.S.S.R.
	7.237	41.46	40	—	Madrid	Spain
	7.238	41.46	20	—	Damascus	Syria
	7.240	41.44	5	VQA55	Jesselton	British North Borneo
x	7.240	41.44	100	—	Allouis	France
	7.240	41.44	10/100	VUB	Bombay	India
	7.240	41.44	6	VQ7LO	Nairobi	Kenya
x	7.245	41.41	4	OEI22	Vienna	Austria
	7.245	41.41	15/240	—	Peking	China
	7.245	41.41	100	—	Allouis	France
	7.245	41.41	15/120	—	Moscow, Russia	U.S.S.R.
	7.250	41.38	8/100	—	Munich (V.o.A.)	Germany (West)
	7.250	41.38	1	YDP3	Medan, Sumatra	Indonesia
	7.250	41.38	1	YDG3	Surakarta, Java	Indonesia
	7.250	41.38	7.5	ZHL7	Singapore	Malaya
	7.250	41.38	50/100	GWI	Overseas Service*	U.K.
x	7.255	41.35	5	—	Sofia	Bulgaria
x	7.255	41.35	30	OLR	Podebrady	Czechoslovakia
	7.257	41.33	5	JKH	Tokio	Japan
	7.260	41.32	4	—	Vienna	Austria
	7.260	41.32	100	—	Allouis	France
	7.260	41.32	35	—	Salonika (V.o.A.)	Greece
	7.260	41.32	10/100	VUM	Madras	India
	7.260	41.32	12	—	Saigon, Vietnam	Indo-China
	7.260	41.32	50/100	GSU	Overseas Service*	U.K.
	7.260	41.32	40	—	Kiev, Ukraine	U.S.S.R.
	7.265	41.29	15/240	—	Peking	China
x	7.265	41.29	1	—	Bad Durrheim SWF	Germany (West)
	7.265	41.29	35	—	Salonika (V.o.A.)	Greece
	7.265	41.29	15/120	—	Moscow, Russia	U.S.S.R.
	7.268	41.28	1	—	Dalat, Vietnam	Indo-China
	7.270	41.27	7.5	YDB3	Djakarta, Java	Indonesia
	7.270	41.27	12	—	Motala	Sweden
	7.270	41.27	5	—	Erivan, Armenia	U.S.S.R.

Mc/s	Metres	kW	Call	Warszawa	Polish
				Station and Country	
7.270	41.27	10	—	Magadan, Russia	U.S.S.R.
7.270	41.27	15/120	—	Moscow, Russia	U.S.S.R.
7.275	41.24	20/100	VUD	Delhi	India
7.275	41.24	50/100	—	Rome	Italy
7.275	41.25	20	—	Paradys	South Africa
7.280	41.21	100	VLA7	Shepparton, Victoria	Australia
7.280	41.21	30	OLR	Podebrady	Czechoslovakia
7.280	41.21	100	—	Allouis	France
7.280	41.21	7.5	ZHL7	Singapore	Malaya
7.280	41.21	7.5	APD	Dacca	Pakistan
7.280	41.21	50/100	GWN	Overseas Service*	U.K.
7.280	41.21	15/120	—	Moscow, Russia	U.S.S.R.
7.280	41.21	5/100	HVJ	Vatican City	Vatican City
7.285	41.18	20/100	VUD	Delhi	India
7.285	41.18	5	JKI	Tokio	Japan
7.285	41.18	50	APK	Karachi	Pakistan
7.285	41.18	10	—	Lusaka	Rhodesia-Nyasaland Fed.
7.285	41.18	100	TAS	Ankara	Turkey
7.285	41.18	15/120	—	Moscow, Russia	U.S.S.R.
7.290	41.15	2.5	—	Addis Ababa	Ethiopia
7.290	41.15	100	DMR33	Norden	Germany (West)
7.290	41.15	20/100	VUD	Delhi	India
7.290	41.15	12	—	Saigon, Vietnam	Indo-China
7.290	41.15	50/100	—	Rome	Italy
7.290	41.15	15/120	—	Moscow, Russia	U.S.S.R.
7.293	41.14	3.5	—	Taipei	Formosa
7.295	41.12	2	EJ8AB	Teneriffe Radio Club de T. Canary Islands	Germany (West)
7.295	41.12	8/100	—	Munich (V.o.A.)	Germany (West)
7.295	41.12	20	YDQ3	Macassar, Celebes	Indonesia
7.295	41.12	50	APK	Karachi	Pakistan
7.295	41.12	20	—	Paradys	South Africa
7.297	41.11	15/240	—	Peking	China
7.298	41.11	15/120	—	Moscow, Russia	U.S.S.R.
7.310	41.04	15/120	—	Moscow, Russia	U.S.S.R.
7.320	40.98	50/100	—	Overseas Service*	U.K.
7.320	40.98	15/120	—	Moscow, Russia	U.S.S.R.
7.325	40.96	50/100	GRJ	Overseas Service*	U.K.
7.325	40.96	15/120	—	Moscow, Russia	U.S.S.R.
7.330	40.93	15/120	—	Moscow, Russia	U.S.S.R.
7.330	40.93	—	—	Stalinabad, Tadzhik	U.S.S.R.
7.340	40.87	3.5	BEC36	Taipei	Formosa
7.340	40.87	15/120	—	Moscow, Russia	U.S.S.R.
7.350	40.82	15/120	—	Moscow, Russia	U.S.S.R.
7.360	40.76	15/120	—	Moscow, Russia	U.S.S.R.
7.365	40.74	15/120	—	Moscow, Russia	U.S.S.R.
7.370	40.71	15/240	—	Peking	China
7.370	40.71	15/120	—	Moscow, Russia	U.S.S.R.
7.372	40.69	1	—	Hanoi, Vietnam	Indo-China
7.375	40.68	15/120	—	Moscow, Russia	U.S.S.R.
7.380	40.65	15/120	—	Moscow, Russia	U.S.S.R.
7.385	40.63	15/120	—	Moscow, Russia	U.S.S.R.
7.400	40.54	40	—	Kiev, Ukraine	U.S.S.R.
7.400	40.54	—	—	Leningrad, Russia	U.S.S.R.
7.420	40.43	1	—	Athens	Greece
7.440	40.32	15/120	—	Moscow, Russia	U.S.S.R.
7.480	39.99	15/240	—	Peking	China

9-48889
9-093

Shass
Fahung Ulem Bator

Tibet
Mongolia

Mc/s	Metres	kW	Call	Station and Country
7.526	39.92	15/240	—	Peking China
7.625	39.35	100	—	Allouis Radio Union Television France France
7.650	39.22	100	—	Allouis R.T.F. France
7.650	39.22	—	—	Murmansk, Russia U.S.S.R.
7.660	39.16	1	CE766	Santiago Chile
X7.670	39.11	5	—	Sofia Bulgaria
7.790	38.50	15/240	—	Peking China
X7.848	38.23	3	ZAA	Tirana Albania
7.936	37.81	5	HLKB	Pusan Korea
7.950	37.74	1	—	Ahwaz Persia
X8.000	37.50	2	FXE	Beirut Lebanon
8.215	36.52	3	—	Scutari Albania
8.948	33.58	5/20	—	Tangier Morocco
X9.009	33.31	50	4XB31	Tel Aviv Israel
9.026	33.24	1	COBZ	Havana R. Cuba Cuba
X9.065	33.10	15/240	—	Peking China
9.135	32.84	15/240	—	Peking China
9.145	32.76	15/120	—	Moscow, Russia U.S.S.R.
9.170	32.72	15/240	—	Peking China
X9.210	32.57	7.5	OTH	Leopoldville Belgian Congo
9.250	32.43	15	—	Alma Ata, Kazak U.S.S.R.
X9.255	32.41	5	—	Bucharest R. Tele Rom. Rumania
9.300	32.26	5/20	—	Tangier Morocco
9.302	32.25	5	PRN9	Rio de Janeiro Brazil
9.328	32.16	10	WTAN	Tangier Morocco
9.336	32.13	1	OAX4J	Lima Peru
9.340	32.12	15/240	—	Peking China
X9.360	32.05	40	—	Madrid Spain
X9.362	32.04	1	COBC	Havana Cuba
9.370	32.02	30	OLR	Podebrady JAMONLÝ Czechoslovakia
X9.370	32.02	40	—	Madrid Spain
X9.380	31.98	50	OTM2	Leopoldville Belgian Congo
X9.380	31.98	15	—	Alma Ata, Kazak U.S.S.R.
9.380	31.98	20	—	Khabarovsk, Russia U.S.S.R.
9.390	31.95	15/240	—	Peking China
X9.410	X31.88	50/100	GRI	Overseas Service*(E) U.K.
9.420	31.85	2	OAX4W	Lima Peru
9.420	31.85	15/120	—	Moscow, Russia U.S.S.R.
9.430	31.81	2.5/10	WTAN	Tangier Morocco
9.437	31.79	5	CP38	La Paz Bolivia
X9.450	31.75	40	—	Kiev, Ukraine U.S.S.R.
X9.456	31.72	15/240	—	Peking China
9.464	31.70	12	—	Hanoi, Vietnam Indo-China
X9.464	31.70	100	TAP	Ankara Turkey
X9.470	31.68	40	—	Kiev, Ukraine U.S.S.R.
9.475	31.66	3	—	Las Palmas Canary Islands
9.475	31.66	50/100	—	Cairo Egypt
9.480	31.65	15/120	—	Moscow, Russia U.S.S.R.
X9.484	31.63	50	APK	Karachi Pakistan
9.485	31.63	2.5/10	WTAN	Tangier Morocco
X9.490	31.61	15/120	—	Moscow, Russia U.S.S.R.
9.498	31.58	30	OLR	Podebrady Czechoslovakia
X9.498	31.58	10	—	Magadan, Russia U.S.S.R.
9.500	31.58	100	VLA9	Shepparton, Victoria A-B-C Australia
X9.500	31.58	10	XEWW	Mexico City Mexico
X9.500	31.58	35/100	—	Tangier (V.o.A.) Morocco

5475 kws - (C.W. of W. operator)
 9300 Prof. Roberto La Voz del Pueblo, Radio Camiri, Bolivia
 Combata Radio Union Lds (Barbados)

Mc/s	Metres	kW	Call	Station	Country
*9.500	31.58	15/120	—	Moscow, Russia	U.S.S.R.
9.500	31.58	50	—	Petropavlovsk, Russia	U.S.S.R.
*9.502	31.58	1	CR6RF	Benguela	Angola
*9.502	31.58	1	HOLA	Colon R. Atlantic	Panama
*9.504	31.57	30	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	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	15	YVXJ	Radio Barquisimeto	Venezuela
9.510	31.55	15/240	—	Peking	China
9.510	31.55	50/100	GSB	BBC Overseas Service (E)	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	CXA7L	Montevideo	Uruguay
9.518	31.52	30	—	CRT Podebrady	Czechoslovakia
*9.520	31.51	100	—	Colombo	Ceylon
*9.520	31.51	50	OZF5	STRF Copenhagen	Denmark
*9.520	31.51	35	—	VOA Salonika (V.o.A.)	Greece
9.520	31.51	20/100	VUD	AIR Delhi	India
9.520	31.51	7.5	ZL18	Wellington	New Zealand
9.520	31.51	100	HEU2	SBC Schwarzenburg	Switzerland
9.523	31.50	20	—	Paradys	South Africa
9.525	31.50	1	OXI	Godthaab	Greenland
*9.525	31.50	50/100	JOB20	NKH Tokio	Japan
9.525	31.50	7.5/100	—	KSR Warsaw	Poland
9.525	31.50	50/100	GWJ	BBC Overseas Service*	U.K.
9.528	31.49	1	YVMZ	Maracaibo	Venezuela
9.530	31.48	15/240	—	Peking	China
9.530	31.48	30	OLR	CRT Podebrady	Czechoslovakia
9.530	31.48	35	—	VOA Salonika (V.o.A.)	Greece
9.530	31.48	0.25/10	VUC	AIR Calcutta	India
9.530	31.48	35/100	—	VOA Tangier (V.o.A.)	Morocco
9.530	31.48	20/80	WRUL	Boston, Mass.	U.S.A.
9.530	31.48	50	WBOU	Bound Brook, N.J.	U.S.A.
9.530	31.48	50	WDSI	Brentwood, N.Y.	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	—	GRT Horby	Sweden
*9.535	31.46	100	HER4	SBC Schwarzenburg	Switzerland
*9.535	31.46	15/120	—	Moscow, Russia	U.S.S.R.
9.538	31.45	7.5	—	Rangoon	Burma
*9.539	31.45	7.5/100	—	Warsaw	Poland
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
9.545	31.43	7.5	ZYS43	Curityba	Brazil
9.545	31.43	8/100	—	Munich (V.o.A.)	Germany (West)
9.545	31.43	20/100	VUD	Delhi	India
9.545	31.43	7.5	—	Singapore	Malaya

Mc/s	Metros	kW	Call	Station and Country	
9.545	31.43	75/200	WLWO	Cincinnati, Ohio	U.S.A.
9.545	31.43	15/120	—	Moscow, Russia	U.S.S.R.
X 9.550	31.41	30	OLR3A	Poděbrady	Czechoslovakia
9.550	31.41	100	—	Allouis	France
9.550	31.41	10/100	VUB	Bombay	India
9.550	31.41	10	LLD	Tromso	Norway
9.550	31.41	1	—	Manila, Luzon	Philippines
9.550	31.41	50/100	GWB	Overseas Service*	U.K.
9.550	31.41	50	WBOU	Bound Brook, N.J.	U.S.A.
9.550	31.41	50/200	KNBH	Dixon, Cal.	U.S.A.
9.550	31.41	25	HVJ	Vatican City	Vatican City
9.552	31.41	5	YSS	San Salvador	Salvador
9.554	31.40	3	YDQ2	Macassar, Celebes	Indonesia
9.555	31.40	10	CP5	La Paz	Bolivia
X 9.555	31.40	15	OIX2	Pori	Finland
9.555	31.40	7.5/100	—	Warsaw	Poland
9.555	31.40	20	—	Damascus	Syria
9.555	31.40	15/120	—	Moscow, Russia	U.S.S.R.
9.559	31.39	15/120	—	Moscow, Russia	U.S.S.R.
9.560	31.38	100	—	Allouis	France
9.560	31.38	10	JBD2	Yamata	Japan
9.560	31.38	50/100	—	Overseas Service*	U.K.
9.560	31.38	75/200	WLWO	Cincinnati, Ohio	U.S.A.
9.564	31.37	10	OAX4T	Lima	Peru
9.565	31.37	16	ZYK3	Recife	Brazil
9.570	31.35	35/100	—	Tangier (V.o.A.)	Morocco
X 9.570	31.35	5	—	Bucharest	Rumania
9.570	31.35	50/100	GWX	Overseas Service*	U.K.
9.570	31.35	50/200	KCBR	Delano, Cal.	U.S.A.
9.570	31.35	1	YVOM	San Cristobal <i>Caracas del Torbes</i>	Venezuela
9.575	31.33	50	—	Rio de Janeiro	Brazil
9.575	31.33	3.5	—	Taipei	Formosa
9.575	31.33	10	—	Gauhati	India
X 9.575	31.33	50/100	—	Rome	Italy
X 9.580	31.32	100	VLA9	Shepparton, Victoria	Australia
9.580	31.32	10	—	Lusaka	Rhodesia-Nyasaland Fed.
9.580	31.32	50/100	GSC	Overseas Service*	U.K.
9.580	31.32	15/120	—	Moscow, Russia	U.S.S.R.
9.585	31.30	50	—	Sao Paulo	Brazil
X 9.585	31.30	50	CKLP	Sackville, N.B.	Canada
9.585	31.30	100	—	Allouis	France
9.585	31.30	20/100	VUD	Delhi	India
9.585	31.30	50/200	—	Madrid	Spain
9.585	31.30	15/120	—	Moscow, Russia	U.S.S.R.
9.586	31.30	15/240	—	Peking	China
X 9.590	31.28	30	OLR3A	Poděbrady	Czechoslovakia
9.590	31.28	20/100	VUD	Delhi	India
9.590	31.28	10/100	VUM	Madras	India
X 9.590	31.28	30	PCJ	Huizen	Netherlands
9.590	31.28	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
9.590	31.28	50	WDSI	Brentwood, N.Y.	U.S.A.
9.590	31.28	50/200	KNBH	Dixon, Cal.	U.S.A.
9.595	31.26	20	ZYN22	Salvador	Brazil
9.595	31.26	20/100	VUD	Delhi	India
9.595	31.26	10	JOZ3	Tokio	Japan
9.595	31.26	10	—	Erivan, Armenia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	Station and Country
9.605	31.23	30	OIR	PODEGRADY	CZECHOSLOV.
9.635	31.13	7.5/100	-	WARSZAWA	POLSKA
X 9.595	31.26	40	—	Kiev, Ukraine	U.S.S.R.
9.597	31.26	2.5	CE960	Santiago	Chile
9.598	31.26	3	4VEH	Cap Haitien	Haiti
9.600	31.25	20/100	VUD	Delhi	India
9.600	31.25	35/100	—	Tangier (V.o.A.)	Morocco
9.600	31.25	7.5/100	—	Warsaw	Poland
9.600	31.25	8/100	—	Manila, Luzon (V.o.A.)	Philippines
9.600	31.25	20	—	Paradys	South Africa
9.600	31.25	50/100	GRY	Overseas Service*	U.K.
9.600	31.25	50/200	KCBR	Delano, Cal.	U.S.A.
9.605	31.23	20/100	VUD	Delhi	India
9.605	31.23	35/100	—	Tangier (V.o.A.)	Morocco
X 9.606	31.23	7.5	—	Athens	Greece
9.610	31.22	10	VLX9	Perth, W.A.	Australia
X 9.610	31.22	25 100	ZC8FRG3	Rio de Janeiro R. Tupi	Brazil
9.610	31.22	50	CHLS	Sackville, N.B.	Canada
9.610	31.22	10	CR8AD	Goa	Goa
9.610	31.22	5	XERQ	Mexico City	Mexico
X 9.610	31.22	35/100	—	Tangier (V.o.A.)	Morocco
X 9.610	31.22	100	LLG	Fredrikstad	Norway
9.610	31.22	100	—	Madrid	Spain
9.610	31.22	15/120	—	Moscow, Russia	U.S.S.R.
9.614	31.20	7.5/100	—	Warsaw	Poland
9.615	31.20	100	VLB9	Shepparton, Victoria	Australia
X 9.615	31.20	4	OEI33	Vienna	Austria
9.615	31.20	20/100	VUD	Delhi	India
9.615	31.20	7.5	—	Singapore	Malaya
9.615	31.20	35/100	—	Tangier (V.o.A.)	Morocco
9.615	31.20	7.5	APD	Dacca	Pakistan
9.619	31.19	3	TIDCR	San Jose	Costa Rica
9.620	31.19	1	COJK	Camaguey	Cuba
9.620	31.19	7.5	ZYR96	Sao Paulo	Brazil
9.620	31.19	100	—	Allouis	France
9.620	31.19	8/100	—	Munich (V.o.A.)	Germany (West)
9.620	31.19	20/100	VUD	Delhi	India
9.620	31.19	12	—	Saigon, Vietnam	Indo-China
9.620	31.19	35/100	—	Tangier (V.o.A.)	Morocco
9.620	31.19	7.5	ZL8	Wellington	New Zealand
X 9.620	31.19	100	—	Horby	Sweden
9.620	31.19	15/120	—	Moscow, Russia	U.S.S.R.
9.625	31.17	50	CKLO	Sackville, N.B.	Canada
9.625	31.17	7	FZI	Brazzaville	French Eq. Africa
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	—	Alma Ata, Kazak	U.S.S.R.
9.625	31.17	15/120	—	Moscow, Russia	U.S.S.R.
9.630	31.15	20/100	VUD	Delhi	India
9.630	31.15	50/100	—	Rome	Italy
9.630	31.15	35	—	Okinawa (V.o.A.)	Okinawa Island
9.630	31.15	5	—	Freetown	Sierra Leone
9.630	31.15	50	—	Komsomolsk, Russia	U.S.S.R.
9.632	31.14	1	CR6RL	Luanda	Angola
9.633	31.14	100	CSA	Lisbon	Portugal
9.635	31.13	7.5	ZYR	Aparecida	Brazil
9.635	31.13	20/100	VUD	Delhi	India

Mc/s	Metres	kW	Call	Station and Country	
9.635	31.13	35/100	—	Tangier (V.o.A.)	Morocco
9.638	31.12	100	HLKA	Seoul	Korea
9.640	31.12	100	DMO9	Norden	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	4	OEI34	Vienna	Austria
9.645	31.10	7.5	ZYY40	Pocos de Caldas	Brazil
9.645	31.10	2	TIFC	San Jose	Costa Rica
9.645	31.10	50	APK	Karachi	Pakistan
9.645	31.10	5/100	HVJ	Vatican City	Vatican City
9.646	31.10	50/100	—	Cairo	Egypt
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	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.
9.652	31.08	20	ELWA	Monrovia	Liberia
x 9.655	31.07	50	OTC2	Leopoldville	Belgian Congo
9.655	31.07	15/240	—	Peking	China
9.655	31.07	5	JKI2	Tokio	Japan
9.655	31.07	7.5	—	Lagos	Nigeria
9.655	31.07	100	HEU3	Schwarzenburg	Switzerland
9.660	31.06	25	LRX	Buenos Aires	Argentina
9.660	31.06	10	VLQ9	Brisbane, Queensland	Australia
9.660	31.06	5	VQA56	Jesselton	British North Borneo
9.660	31.06	1	—	Srinigar	Kashmir
9.660	31.06	50/100	GWP	Overseas Service*	U.K.
9.660	31.06	50	—	Komsomolsk, Russia	U.S.S.R.
9.660	31.06	5/100	HVJ	Vatican City	Vatican City
x 9.665	31.04	5	OEI23	Vienna	Austria
x 9.665	31.04	100	HEU3	Schwarzenburg	Switzerland
9.665	31.04	40	—	Kiev, Ukraine	U.S.S.R.
9.666	31.04	5	TGNA	Guatemala City	Guatemala
9.667	31.03	5/20	—	Tangier	Morocco
9.669	31.02	50	—	Komsomolsk, Russia	U.S.S.R.
x 9.670	31.02	5	COCQ	Havana Cuba ^{CMQ}	Cuba
9.670	31.02	8/100	—	Munich (V.o.A.)	Germany (West)
9.670	31.02	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
9.670	31.02	50	WDSI	Brentwood, N.Y.	U.S.A.
9.670	31.02	15/120	—	Moscow, Russia	U.S.S.R.
9.671	31.02	30	OLR3C	Podebrady	Czechoslovakia
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	15	ZQP	Lusaka	Rhodesia-Nyasaland Fed.
9.675	31.01	100	—	Madrid	Spain
9.675	31.01	50/100	GWT	Overseas Service*	U.K.
9.675	31.01	15/120	—	Moscow, Russia	U.S.S.R.
9.680	30.99	10	VLR9	Lyndhurst, Victoria	Australia
9.680	30.99	100	—	Allouis	France

	Mc/s	Metres	kW	Call	Station and Country	
	9.680	30.99	1	XEQQ	Mexico City	Mexico
	9.680	30.99	7	EQC	Teheran	Persia
	9.680	30.99	100	CSA	Lisbon	Portugal
	9.680	30.99	20	—	Paradys	South Africa
	9.680	30.99	50/200	—	Madrid	Spain
	X9.680	30.99	15/120	—	Moscow, Russia	U.S.S.R.
	9.682	30.99	15/240	—	Peking	China
	9.685	30.98	50	—	Sao Paulo	Brazil
	9.685	30.98	35/100	—	Tangier (V.o.A.)	Morocco
	X9.685	30.98	7.5/100	—	Warsaw	Poland
	9.685	30.98	40	—	Kiev, Ukraine	U.S.S.R.
	X9.690	30.96	10	LRA 32	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.
RFE	9.695	30.94	100	—	Madrid	Spain
	9.700	30.93	5	—	Sofia	Bulgaria
	9.700	30.93	50/100	GWY	Overseas Service*	U.K.
	9.700	30.93	50/200	KCBR	Delano, Cal.	U.S.A.
	9.700	30.93	15/120	—	Moscow, Russia	U.S.S.R.
	9.704	30.92	15/240	—	Peking	China
	9.704	30.92	1.5	FZF6	Fort de France	Martinique
	X9.704	30.92	50	APK	Karachi	Pakistan
	X9.705	30.92	100	ORU	Wavre	Belgium
	9.705	30.92	10	ZYZ24	Rio de Janeiro	Brazil
7	9.705	30.92	20/100	VUD	Delhi	India
	9.705	30.92	35/100	—	Tangier (V.o.A.)	Morocco
	9.705	30.92	1	—	Sana'a	Yemen
	9.710	30.90	50	CHLR	Sackville, N.B.	Canada
	9.710	30.90	50/100	YDF6	Djakarta, Java	Indonesia
	9.710	30.90	50/100	—	Rome	Italy
	9.710	30.90	2.5	—	Lusaka	Rhodesia-Nyasaland Fed.
	9.710	30.90	50/100	—	Overseas Service*	U.K.
X	9.715	30.88	15/240	—	Peking	China
	9.715	30.88	20/100	VUD	Delhi	India
RFE	9.715	30.88	40	—	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	20/100	VUD	Delhi	India
	9.720	30.86	20	—	Paradys	South Africa
	9.720	30.86	10	—	Erivan, Armenia	U.S.S.R.
	X9.720	30.86	15/120	—	Moscow, Russia	U.S.S.R.
	9.725	30.85	20/100	VUD	Delhi	India
	9.725	30.85	7.5/100	—	Tebrau	Malaya
RFE	9.725	30.85	50/100	—	Overseas Service*	U.K.
	9.725	30.85	110	WLWO	Cincinnati, Ohio	U.S.A.
	X9.728	30.84	12	—	Leipzig	Germany (East)
	9.728	30.84	7.5/100	—	Warsaw	Poland
	9.730	30.83	7	FZI	Brazzaville	French Eq. Africa
	9.730	30.83	3	DZH7	Manila, Luzon	Philippines
	9.730	30.83	40	—	Kiev, Ukraine	U.S.S.R.
	9.735	30.82	7.5	H12T	Ciudad Trujillo	Dominican Rep.
	9.735	30.82	100	DMQ9	Norden	Germany (West)
	9.735	30.82	100	CSA	Lisbon	Portugal
	X9.735	30.82	50/100	GWF	Overseas Service*	U.K. <i>German</i>
	9.736	30.81	15/240	—	Peking	China

Mc/s	Metres	kW	Call	Station and Country	
9.737	30.81	5	CE970	Santiago	Chile
9.737	30.81	1	ZPA4	Ascuncion	Paraguay
9.739	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
X 9.740	30.80	35/100	—	Tangier (V.o.A.)	Morocco
X 9.740	30.80	40	—	Kiev, Ukraine	U.S.S.R.
X 9.744	30.79	1	HCJB	Quito	Ecuador
9.745	30.79	7.5	ZYR57	Sao Paulo	Brazil
9.745	30.79	20/100	VUD	Delhi	India
X 9.745	30.79	5	—	Huizen	Netherlands
X 9.745	30.79	15/120	—	Moscow, Russia	U.S.S.R.
9.746	30.79	100	ORU	Wavre	Belgium
9.750	30.77	50/100	—	Cairo	Egypt
9.750	30.77	1	DZH3	Manila, Luzon	Philippines
RFE 9.750	30.77	50/100	—	Overseas Service*	U.K.
9.750	30.77	50	—	Komsomolsk, Russia	U.S.S.R.
9.750	30.77	15/120	—	Moscow, Russia	U.S.S.R.
9.755	30.75	1	CR6RH	Sa da Bandeira	Angola
9.755	30.75	7.5	ZYW23	Goiana	Brazil
9.755	30.75	100	—	Allouis	France
9.755	30.75	25	—	Saigon, Vietnam	Indo-China
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.
X 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
X 9.765	30.72	10/100	VUM	Madras	India
9.765	30.72	15/120	—	Moscow, Russia	U.S.S.R.
9.766	30.72	10	TGWA	Guatemala City	Guatemala
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.
9.773	30.70	15/240	—	Peking	China
9.775	30.69	3	BEC32	Taipei	Formosa
9.775	30.69	50/100	CSA	Lisbon	Portugal
9.775	30.69	15/120	—	Moscow, Russia	U.S.S.R.
9.780	30.67	50/100	—	Rome	Italy
9.780	30.67	15/120	—	Moscow, Russia	U.S.S.R.
X 9.790	30.64	50/100	—	Cairo	Egypt
9.790	30.64	—	—	Leningrad, Russia	U.S.S.R.
9.792	30.63	100	—	Allouis	France
X 9.800	30.61	15/120	—	Moscow, Russia	U.S.S.R.
9.810	30.58	15/120	—	Moscow, Russia	U.S.S.R.
9.825	30.53	15/240	—	Peking	China
X 9.825	30.53	50/100	GRH	Overseas Service*	U.K.
9.829	30.52	3	—	Jidda	Saudi Arabia
9.832	30.51	1	COBL	Havana	Cuba
X 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

Mc/s	Metres	kW	Call	Station and Country	
9.850	30.46	15/120	—	Moscow, Russia	U.S.S.R.
X 9.866	30.42	100	YDF	Djakarta, Java	Indonesia
9.880	30.36	15/120	—	Moscow, Russia	U.S.S.R.
9.900	30.30	1	—	Garoua	Cameroon
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.
9.931	30.20	3	—	Jidda	Saudi Arabia
9.940	30.18	12	—	Hanoi, Vietnam	Indo-China
9.965	30.11	1.5	FZI	Brazzaville	French Eq. Africa
9.973	30.08	25	—	Kabul	Afghanistan
9.973	30.08	15/240	—	Peking	China
10.055	29.84	3	—	Jidda	Saudi Arabia
10.070	29.79	15/240	—	Peking	China
10.260	29.24	15/240	—	Peking	China
10.430	28.76	100	—	Allouis	France
10.530	28.49	15	—	Alma Ata, Kazak	U.S.S.R.
X 11.100	27.03	15/240	—	Peking	China
11.290	26.57	15/240	—	Peking	China
11.342	26.40	10	—	Tangier	Morocco
11.420	26.27	15/240	—	Peking	China
11.454	26.19	50	FZI	Brazzaville	French Eq. Africa
11.458	26.18	20	—	Tangier	Morocco
11.515	26.05	15/240	—	Peking	China
11.570	25.93	15/120	—	Moscow, Russia	U.S.S.R.
11.590	25.88	15/240	—	Peking	China
X 11.600	25.86	15/240	—	Peking	China
11.630	25.79	20/100	VUD	Delhi	India
X 11.630	25.79	—	—	Leningrad, Russia	U.S.S.R.
X 11.650	25.75	15/240	—	Peking	China
11.664	25.73	20	—	Damascus	Syria
11.670	25.71	50	—	Leopoldville	Belgian Congo
X 11.670	25.71	50/100	—	Cairo	Egypt
11.670	25.71	100	—	Allouis	France
by 11.670	25.71	50	APK	Karachi	Pakistan
X 11.671	25.71	50	HSK9	Bangkok	Thailand
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.
X 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	16	HNG	Baghdad	Iraq
11.700	25.64	7.5/100	—	Tebrau	Malaya
11.700	25.64	50/100	GVW	Overseas Service*	U.K.
11.705	25.63	50	CKXA	Sackville, N.B.	Canada
X 11.705	25.63	50/100	JOA4	Tokio	Japan
X 11.705	25.63	100	—	Horby	Sweden
X 11.705	25.63	15/120	—	Moscow, Russia	U.S.S.R.
11.707	25.63	7.5/100	—	Warsaw	Poland
X 11.710	25.62	100	VLA11	Shepparton, Victoria	Australia
11.710	25.62	50/100	—	Cairo	Egypt
X 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.

Mc/s	Metres	kW	Call	Station and Country	Station and Country
11.730	2958	30	OLR	PODEBRADY	CESKOS
11.745	2554	"	"	"	"
11.710	25.62	50/200	KCBR	Delano, Cal.	U.S.A.
11.710	25.62	50/200	KNBH	Dixon, Cal.	U.S.A.
11.710	25.62	15/120	—	Moscow, Russia	U.S.S.R.
11.711	25.62	30	OLR	Podebrady	Czechoslovakia
X11.715	25.61	7.5	—	Athens	Greece
11.715	25.61	35/100	—	Tangier (V.o.A.)	Morocco
11.715	25.61	100	HEI5	Schwarzenburg	Switzerland
11.715	25.61	15/120	—	Moscow, Russia	U.S.S.R.
11.719	25.60	5/20	—	Tangier	Morocco
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
11.720	25.60	2	CKRX	Winnipeg, Manitoba	Canada
X11.720	25.60	7.5	ZJM7	Limassol	Cyprus
11.720	25.60	50/100	—	Cairo	Egypt
11.720	25.60	50/100	CSA	Lisbon	Portugal
11.720	25.60	15/120	—	Moscow, Russia	U.S.S.R.
11.721	25.60	100	—	Allouis	France
11.725	25.59	20/100	VUD	Delhi	India
X11.725	25.59	7.5/100	—	Tebrau	Malaya
11.725	25.59	7.5/100	—	Warsaw	Poland
11.725	25.59	50/100	—	Overseas Service*	U.K.
X11.726	25.59	30	OLR4E	Podebrady	Czechoslovakia
11.730	25.58	100	—	Allouis	France
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
X11.730	25.58	5	PHI	Loanik	Netherlands
11.730	25.58	8/100	—	Manila, Luzon (V.o.A.)	Philippines
11.730	25.58	50/100	GVV	Overseas Service*	U.K.
11.730	25.58	20/80	WRUL	Boston, Mass.	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
X11.735	25.56	8	LKQ	Fredrikstad	Norway
11.735	25.56	8/100	—	Manila, Luzon (V.o.A.)	Philippines
11.740	25.55	100	VLA11	Shepparton, Victoria	Australia
11.740	25.55	35/100	—	Tangier (V.o.A.)	Morocco
11.740	25.55	50/200	KNBH	Dixon, Cal.	U.S.A.
X11.740	25.55	40	—	Kiev, Ukraine	U.S.S.R.
11.740	25.55	5/100	HVJ3	Vatican City	Vatican City
11.742	25.55	7.5/100	—	Warsaw	Poland
11.743	25.54	4	CE1174	Santiago	Chile
11.745	25.54	1	CR6	Luanda	Angola
11.745	25.54	20/100	VUD	Delhi	India
11.750	25.53	1	COCW	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
X11.750	25.53	50/100	GSD	Overseas Service*	U.K.
11.750	25.53	15/120	—	Moscow, Russia	U.S.S.R.
11.755	25.52	20/100	VUD	Delhi	India
11.755	25.52	7.5/100	—	Warsaw	Poland
11.755	25.52	25	—	Komsomolsk, Russia	U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
11.755	25.52	15/120	—	Moscow, Russia	U.S.S.R.
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	35	—	Salonika (V.o.A.)	Greece
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
X11.765	25.50	5/20	—	Tangier <i>R. Tupa</i>	Morocco
11.765	25.50	8/100	—	Manila, Luzon (V.o.A.) <i>R Africa</i>	Philippines
11.770	25.49	100	VLB11	Shepparton, Victoria	Australia
11.770	25.49	35	—	Colombo	Ceylon
11.770	25.49	100	YDF2	Djakarta, Java	Indonesia
11.770	25.49	7.5/100	—	Warsaw	Poland
X11.770	25.49	50/100	GVU	Overseas Service*	U.K.
X11.770	25.49	15/120	—	Moscow, Russia	U.S.S.R.
X11.775	25.48	4	OEI35	Vienna	Austria
11.775	25.48	50	—	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	20/100	VUD	Delhi	India
11.780	25.47	35/100	—	Tangier (V.o.A.)	Morocco
11.780	25.47	7.5	ZL3	Wellington	New Zealand
11.780	25.47	50	APK	Karachi	Pakistan
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.
X11.785	25.46	4	OEI24	Vienna	Austria
11.785	25.46	7.5	ZYU61	Porto Alegre	Brazil
11.785	25.46	35/100	—	Tangier (V.o.A.)	Morocco
11.785	25.46	110	WLWO	Cincinnati, Ohio	U.S.A.
11.785	25.46	15/120	—	Moscow, Russia	U.S.S.R.
11.790	25.45	20/100	VUD	Delhi	India
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	50	WDSI	Brentwood, N.Y.	U.S.A.
11.790	25.45	15/120	—	Moscow, Russia	U.S.S.R.
X11.795	25.43	30	OLR	Podebrady	Czechoslovakia
X11.795	25.43	20/100	DMQ11	Juelich	Germany (West)
X11.795	25.43	100	YDF7	Djakarta, Java	Indonesia
11.798	25.42	10	ELWA	Monrovia	Liberia
11.800	25.42	1	COBH	Havana	Cuba
X11.800	25.42	50	JKI	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.
11.801	25.42	15/240	—	Peking	China
11.805	25.41	35	—	Salonika (V.o.A.)	Greece
11.805	25.41	20/100	VUD	Delhi	India
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	VLB11	Shepparton, Victoria	Australia
11.810	25.40	50/100	—	Rome	Italy
X11.810	25.40	100	—	Horby	Sweden

11.815 25.39 7.5/100
 11.815 25.33 30 OLR *Warszawa*
Podebrady *Polska*
Czechoslovak

M/c/s	Metres	kW	Call	Station and Country
11.810	25.40	75/200	WLWO	Cincinnati, Ohio U.S.A.
11.814	25.39	50/200	—	Madrid Spain
11.815	25.39	5	ZYW24	Goiana Brazil
11.815	25.39	3.5/50	BED6	Taipei Formosa
11.815	25.39	20	—	Khabarovsk, Russia U.S.S.R.
11.815	25.39	50	—	Komsomolsk, Russia U.S.S.R.
*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.
11.820	25.38	15/120	—	Moscow, Russia U.S.S.R.
11.825	25.37	16	ZYK32	Recife Brazil
11.825	25.37	40	—	Kiev, Ukraine U.S.S.R.
*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	35	—	Okinawa (V.o.A.) Okinawa Island
11.830	25.36	50	WBOU	Bound Brook, N.J. U.S.A.
11.830	25.36	50	WDSI	Brentwood, N.Y. U.S.A.
11.830	25.36	110	WLWO	Cincinnati, Ohio U.S.A.
11.830	25.36	50/200	KCBR	Delano, Cal. U.S.A.
11.835	25.35	35	—	Colombo (V.o.A.) Ceylon
11.835	25.35	30	OLR	Podebrady Czechoslovakia
11.835	25.35	15/120	—	Moscow, Russia U.S.S.R.
11.835	25.35	5	CXA19	Montevideo Uruguay
11.840	25.34	2	VLW11	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	50	APK	Karachi Pakistan
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	15/120	—	Moscow, Russia U.S.S.R.
11.845	25.33	100	—	Allouis France
11.845	25.33	35	—	Salonika (V.o.A.) Greece
11.845	25.33	15/120	—	Moscow, Russia U.S.S.R.
11.846	25.32	5	—	Jidda Saudi Arabia
11.850	25.32	10	VLG11	Lyndhurst, Victoria Australia
*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.
11.850	25.32	50	—	Petropavlovsk, Russia U.S.S.R.
11.855	25.31	10	ZYR94	Sao Paulo Brazil
11.855	25.31	100	—	Allouis France
11.855	25.31	50	APK	Karachi Pakistan
11.855	25.31	10	DZH8	Manila, Luzon Philippines
11.855	25.31	110	WLWO	Cincinnati, Ohio U.S.A.
11.860	25.30	20/100	VUD	Delhi India
11.860	25.30	7.5/100	—	Warsaw Poland
11.860	25.30	50/100	GSE	Overseas Service* U.K.
11.860	25.30	40	—	Moscow, Russia U.S.S.R.
*11.862	25.29	1	CR6RZ	Luanda Angola
*11.864	25.28	5	PRA8	Recife R. de Pernambuco Brazil

Mc/s	Metres	kW	Call	Station and Country	
X 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	WDSI	Brentwood, N.Y.	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.
11.875	25.26	10	ZYN32	Salvador	Brazil
11.875	25.26	35	—	Colombo	Ceylon
11.875	25.26	30	OLR	Podebrady	Czechoslovakia
11.875	25.26	35/100	—	Tangier (V.o.A.)	Morocco
11.875	25.26	15/120	—	Moscow, Russia	U.S.S.R.
11.880	25.25	5	LR5	Buenos Aires	Argentina
11.880	25.25	10	VLH11	Lyndhurst, Victoria	Australia
11.880	25.25	7.5/100	—	Tebrau	Malaya
X 11.880	25.25	1	XEHH	Mexico City	Mexico
11.880	25.25	100	—	Horby	Sweden
11.880	25.25	50/100	GRE	Overseas Service*	U.K.
11.885	25.24	50	APK	Karachi	Pakistan
11.890	25.23	8/100	—	Munich (V.o.A.)	Germany (West)
11.890	25.23	100	—	Honolulu (V.o.A.)	Hawaii
11.890	25.23	35/100	—	Tangier (V.o.A.)	Morocco
11.890	25.23	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
11.890	25.23	20	—	Paradys	South Africa
11.890	25.23	50/100	GWV	Overseas Service*	U.K.
11.890	25.23	110	WLWO	Cincinnati, Ohio	U.S.A.
11.890	25.23	40	—	Kiev, Ukraine	U.S.S.R.
11.895	25.22	15/240	—	Peking	China
11.895	25.22	20/100	VUD	Delhi	India
11.895	25.22	35	—	Salonika (V.o.A.)	Greece
11.895	25.22	35/100	—	Tangier (V.o.A.)	Morocco
11.895	25.22	25	FHE3	Dakar	Senegal
11.900	25.21	100	VLB11	Shepparton, Victoria	Australia
11.900	25.21	50	CKEX	Sackville, N.B.	Canada
11.900	25.21	30	OLR	Podebrady	Czechoslovakia
11.900	25.21	100	—	Allouis	France
11.900	25.21	20/100	VUD	Delhi	India
11.900	25.21	35/100	—	Tangier (V.o.A.)	Morocco
11.900	25.21	50	WBOU	Bound Brook, N.J.	U.S.A.
11.900	25.21	110	WLWO	Cincinnati, Ohio	U.S.A.
11.900	25.21	50/200	KNBH	Dixon, Cal.	U.S.A.
11.900	25.21	50	—	Komsomolsk, Russia	U.S.S.R.
11.900	25.21	15/120	—	Moscow, Russia	U.S.S.R.
11.905	25.20	20/100	VUD	Delhi	India
X 11.905	25.20	50/100	—	Rome	Italy
X 11.905	25.20	7.5/100	—	Warsaw	Poland
11.905	25.20	15/120	—	Moscow, Russia	U.S.S.R.
11.905	25.20	1	—	Sana'a	Yemen
11.910	25.19	100	—	Budapest	Hungary
11.910	25.19	50/100	MCO	Overseas Service*	U.K.
11.910	25.19	15/120	—	Moscow, Russia	U.S.S.R.
11.915	25.18	10	HCJB	Quito	Ecuador
11.915	25.18	100	—	Lopik	Netherlands
11.915	25.18	50	APK	Karachi	Pakistan
11.915	25.18	100	CSA	Lisbon	Portugal
11.915	25.18	20	—	Damascus	Syria

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Mc/s	Metres	kW	Call	Station and Country	
X11.920	25.17	100	—	Allouis	France
11.920	25.17	20/100	VUD	Delhi	India
11.920	25.17	50/100	—	Overseas Service*	U.K.
11.924	25.16	1	CR6RQ	Nova Lisboa	Angola
11.925	25.16	1	CSA93	Punta Delgada	Azores
X11.925	25.16	10	ZYR78	Sao Paulo R. <i>Bandeirantes</i>	Brazil
11.925	25.16	15/240	—	Peking	China
11.925	25.16	15/120	—	Moscow, Russia	U.S.S.R.
11.926	25.15	7.5	—	Athens	Greece
X11.930	25.15	1.5/50	FZI	Brazzaville	French Eq. Africa
11.930	25.15	7.5/100	—	Tebrau	Malaya
11.930	25.15	50/100	GVX	Overseas Service*	U.K.
11.930	25.15	15/120	—	Moscow, Russia	U.S.S.R.
X11.935	25.14	4	OEI36	Vienna	Austria
11.935	25.14	10	—	Rio de Janeiro	Brazil
11.935	25.14	15/240	—	Peking	China
11.935	25.14	30	OLR	Podebrady	Czechoslovakia
11.935	25.14	7.5/100	—	Warsaw	Poland
11.938	25.13	5	CE1190	Valparaiso	Chile
X11.938	25.13	5	—	Bucharest	Rumania
11.940	25.13	35/100	—	Tangier (V.o.A.)	Morocco
11.940	25.13	15/120	—	Moscow, Russia	U.S.S.R.
11.941	25.13	10	WTAN	Tangier	Morocco
11.945	25.12	50	CKNK	Sackville, N.B.	Canada
11.945	25.12	15/240	—	Peking	China
11.945	25.12	100	DMQ11	Norden	Germany (West)
11.945	25.12	20	—	Paradys	South Africa
11.945	25.12	50/100	MCQ	Overseas Service*	U.K.
11.945	25.12	15/120	—	Moscow, Russia	U.S.S.R.
11.948	25.11	1	YSAXA	San Salvador	Salvador
11.950	25.10	10	PRL5	Rio de Janeiro	Brazil
X11.950	25.10	5	—	Huizen	Netherlands
11.950	25.10	5	—	Jidda	Saudi Arabia
11.950	25.10	—	—	Kaunas, Lithuania	U.S.S.R.
11.953	25.10	7.5/100	—	Warsaw	Poland
11.955	25.09	10/100	VUB	Bombay	India
11.955	25.09	7.5/100	—	Tebrau	Malaya
11.955	25.09	50/100	GVY	Overseas Service*	U.K.
11.960	25.08	2.5	CE1197	Santiago	Chile
11.960	25.08	7	FZI	Brazzaville	French Eq. Africa
X11.960	25.08	35/100	—	Tangier (V.o.A.)	Morocco
X11.960	25.08	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
11.960	25.08	50/100	MCT	Overseas Service*	U.K.
11.960	25.08	15/120	—	Moscow, Russia	U.S.S.R.
11.965	25.07	7.5	PRB24	Sao Paulo	Brazil
X11.965	25.07	50/100	JOB22	Tokio	Japan
11.968	25.07	3.5/50	BED37	Taipei	Formosa
11.970	25.06	50/100	—	Overseas Service*	U.K.
11.970	25.06	15/120	—	Moscow, Russia	U.S.S.R.
11.971	25.06	7	FZI	Brazzaville	French Eq. Africa
11.973	25.05	5	ZPA5	Ascuncion	Paraguay
11.975	25.05	7.5	—	Colombo	Ceylon
X11.975	25.05	15/240	—	Peking	China
11.975	25.05	30	OLR	Podebrady	Czechoslovakia
11.975	25.05	15/120	—	Moscow, Russia	U.S.S.R.
11.985	25.03	10	CR7BE	Lourenco Marques	Mozambique
11.975	25.05	7.5/100	—	<i>Warsaw</i>	<i>Poland</i>

Mc/s	Metres	kW	Call	Station and Country	
11.985	25.03	15/120	—	Moscow, Russia	U.S.S.R.
11.986	25.03	10	ELWA	Monrovia	Liberia
X11.990	25.02	50/100	—	Cairo	Egypt
11.995	25.01	50/100	CSA	Lisbon	Portugal
11.998	25.01	12	—	Hanoi, Vietnam	Indo-China
12.000	25.00	1	CE1180	Santiago	Chile
12.000	25.00	15/120	—	Moscow, Russia	U.S.S.R.
12.005	24.99	15/120	—	Moscow, Russia	U.S.S.R.
12.020	24.96	20/100	VUD	Delhi	India
12.020	24.96	15/120	—	Moscow, Russia	U.S.S.R.
12.029	24.94	50/100	—	Cairo	Egypt
12.029	24.94	100	—	Allouis	France
12.040	24.92	50/100	GRV	Overseas Service*	U.K.
12.045	24.91	50/200	—	Madrid	Spain
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.
X12.123	24.75	15/240	—	Peking	China
12.140	24.71	15/120	—	Moscow, Russia	U.S.S.R.
12.177	24.64	7	TFJ	Reykjavik	Iceland
13.845	21.67	15/240	—	Peking	China
X14.858	20.19	2.5	—	Tangier	Morocco
14.860	20.19	15/120	—	Moscow, Russia	U.S.S.R.
15.027	19.96	15/240	—	Peking	China
15.038	19.95	1.5	V3USE	Forest Side	Mauritius
15.040	19.95	15/120	—	Moscow, Russia	U.S.S.R.
15.046	19.94	5	—	Paramaribo	Dutch Guiana
15.053	19.93	15/120	—	Moscow, Russia	U.S.S.R.
15.055	19.93	5	—	St. Georges, Grenada	West Indies
X15.060	19.92	15/240	—	Peking	China
15.065	19.91	100	CSA36	Lisbon	Portugal
15.065	19.91	15/120	—	Moscow, Russia	U.S.S.R.
X15.070	19.91	50/100	GWC	Overseas Service*	U.K.
15.070	19.91	15/120	—	Moscow, Russia	U.S.S.R.
15.080	19.89	15/120	—	Moscow, Russia	U.S.S.R.
15.090	19.88	50	CKLX	Sackville, N.B.	Canada
15.090	19.88	15/120	—	Moscow, Russia	U.S.S.R.
X15.095	19.87	15/240	—	Peking	China
15.100	19.87	100	—	Allouis	France
15.100	19.87	14	EPB	Teheran	Persia
X15.100	19.87	100	CSA	Lisbon	Portugal
15.100	19.87	15/120	—	Moscow, Russia	U.S.S.R.
X15.105	19.86	50	CKUS	Sackville, N.B.	Canada
15.105	19.86	15/240	—	Peking	China
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	10	CR7BG	Lourenço Marques	Mozambique
15.110	19.85	50/100	GWG	Overseas Service*	U.K.
15.110	19.85	15/120	—	Moscow, Russia	U.S.S.R.
15.111	19.85	30	OLR	Podebrady	Czechoslovakia*
X15.115	19.85	15/240	—	Peking	China
X15.115	19.85	1	HCJB	Quito	Ecuador
15.115	19.85	15/120	—	Moscow, Russia	U.S.S.R.
15.117	19.84	50/200	—	Madrid	Spain
15.120	19.84	100	—	Colombo	Ceylon
X15.120	19.84	50/100	—	Rome	Italy

Mc/s	Metres	kW	Call	Station and Country
X15.120	19.84	7.5/100	—	Warsaw Poland
15.120	19.84	5/100	HVJ	Vatican City Vatican City
15.123	19.83	100	—	Allouis France
X15.125	19.83	30	OLR 5D	Podebrady Czechoslovakia
X15.125	19.83	50	CSA	Lisbon Portugal
15.130	19.83	20/100	VUD	Delhi India
15.130	19.83	50/100	—	Rome Italy
15.130	19.83	35/100	—	Tangier (V.o.A.) Morocco
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.
15.130	19.83	15/120	—	Moscow, Russia U.S.S.R.
15.135	19.82	7	PRB23	Sao Paulo Brazil
15.135	19.82	50/100	JOA6	Tokio Japan
15.135	19.82	15/120	—	Moscow, Russia U.S.S.R.
15.140	19.82	50/100	GSF	Overseas Service* U.K.
15.140	19.82	50	—	Petropavlovsk, Russia U.S.S.R.
15.143	19.82	30	OLR	Podebrady Czechoslovakia
15.145	19.81	20	ZYK33	Recife Brazil
15.149	19.80	1	CE1515	Santiago Chile
15.150	19.80	25	ZYN9	Sao Paulo Brazil
15.150	19.80	8/100	—	Munich (V.o.A.) Germany (West)
15.150	19.80	20/100	VUD	Delhi India
15.150	19.80	50/100	YDC	Djakarta, Java Indonesia
15.150	19.80	35/100	—	Tangier (V.o.A.) Morocco
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.
X15.150	19.80	15/120	—	Moscow, Russia U.S.S.R.
15.155	19.79	8/100	—	Munich (V.o.A.) Germany (West)
15.155	19.79	50	APK	Karachi Pakistan
15.155	19.79	100	—	Horby Sweden
15.155	19.79	50	WBOU	Bound Brook, N.J. U.S.A.
15.155	19.79	15/120	—	Moscow, Russia U.S.S.R.
15.160	19.79	100	VLA15	Shepparton, Victoria Australia
15.160	19.79	100	—	Allouis France
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
X15.160	19.79	100	TAU	Ankara Turkey
15.160	19.79	15/120	—	Moscow, Russia U.S.S.R.
15.165	19.78	50	—	Leopoldville Belgian Congo
15.165	19.78	10	ZYN7	Fortaleza Brazil
X15.165	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	30	OLR	Podebrady Czechoslovakia
X15.168	19.78	1	OBX4C	Lima R. Nacional <i>del Peru</i> Peru
15.170	19.78	10	TGWA	Guatemala City Guatemala
X15.170	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	40	—	Kiev, Ukraine U.S.S.R.

Mc/s	Metres	kW	Call	Station and Country	
X15.180	19.76	50	OZF8	Copenhagen	Denmark
15.180	19.76	50/100	GSO	Overseas Service*	U.K.
15.180	19.76	15/120	—	Moscow, Russia	U.S.S.R.
X15.183	19.76	30	OLR	Podebrady	Czechoslovakia
15.185	19.76	35/100	—	Tangier (V.o.A.)	Morocco
15.187	19.76	1.5/50	FZI	Brazzaville	French Eq. Africa
15.190	19.75	5	PRK9	Belo Horizonte	Brazil
X15.190	19.75	50	CKCX	Sackville, N.B.	Canada
15.190	19.75	15/240	—	Peking	China
X15.190	19.75	100	OIX4	Pori	Finland
15.190	19.75	100	—	Allouis	France
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.
15.191	19.75	30	OLR	Podebrady	Czechoslovakia
15.195	19.74	35	—	Salonika (V.o.A.)	Greece
15.195	19.74	100	TAQ	Ankara	Turkey
15.195	19.74	15/120	—	Moscow, Russia	U.S.S.R.
15.195	19.74	50	—	Petropavlovsk, Russia	U.S.S.R.
X15.196	19.74	10	ELWA	Monrovia	Liberia
15.196	19.74	3	ZPA7	Ascuncion	Paraguay
X15.200	19.74	50	VLC15	Shepparton, Victoria	Australia
X15.200	19.74	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
15.200	19.74	20/80	WRUL	Boston, Mass.	U.S.A.
15.200	19.74	50	WBOU	Bound Brook, N.J.	U.S.A.
15.205	19.73	35/100	—	Tangier (V.o.A.)	Morocco
X15.205	19.73	50	APK	Karachi	Pakistan
15.205	19.73	15/120	—	Moscow, Russia	U.S.S.R.
15.205	19.73	100	—	Belgrade	Yugoslavia
15.210	19.72	50	VLC15	Shepparton, Victoria	Australia
X15.210	19.72	8/100	—	Munich (V.o.A.)	Germany (West)
X15.210	19.72	7.5/50	—	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	15/120	—	Moscow, Russia	U.S.S.R.
15.215	19.72	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
15.220	19.71	100	VLA15	Shepparton, Victoria	Australia
15.220	19.71	50	HCJB	Quito	Ecuador
15.220	19.71	8/100	—	Munich (V.o.A.)	Germany (West)
X15.220	19.71	40	PCJ2	Huizen	Netherlands
15.220	19.71	7.5	ZL10	Wellington	New Zealand
15.220	19.71	40	—	Kiev, Ukraine	U.S.S.R.
15.222	19.70	15/240	—	Peking/	China
15.225	19.70	3.5/50	BED5	Taipei	Formosa
15.225	19.70	20/100	VUD	Delhi	India
15.225	19.70	7.5	JBD3	Osaka	Japan
15.230	19.70	10	VLH15	Lyndhurst, Victoria	Australia
15.230	19.70	35	—	Colombo	Ceylon
15.230	19.70	30	OLR	Podebrady	Czechoslovakia
15.230	19.70	10	BED3	Taipei	Formosa
15.230	19.70	20	—	Paradys	South Africa
15.230	19.70	50/100	GDW	Overseas Service*	U.K.
X15.230	19.70	20/80	WRUL	Boston, Mass.	U.S.A.
15.230	19.70	110	WLWO	Cincinnati, Ohio	U.S.A.
15.230	19.70	50/200	KNBH	Dixon, Cal.	U.S.A.
15.230	19.70	15/120	—	Moscow, Russia	U.S.S.R.

15.245 19.64 7.5/100

Watszone

Polstka

Mcs	Metres	kW	Call	Station and Country	Station and Country
15.235	19.69	20/100	VUD	Delhi	India
15.235	19.69	50/100	JOB5	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	25	—	Komsomolsk, Russia	U.S.S.R.
15.235	19.69	15/120	—	Moscow, Russia	U.S.S.R.
✕ 15.238	19.69	100	—	Belgrade	Yugoslavia
✕ 15.240	19.69	15/240	—	Peking	China
15.240	19.69	100	—	Allouis	France
✕ 15.240	19.69	100	—	Horby	Sweden
15.240	19.69	50	WBOU	Bound Brook, N.J.	U.S.A.
15.240	19.69	110	WLWO	Cincinnati, Ohio	U.S.A.
15.240	19.69	15/120	—	Moscow, Russia	U.S.S.R.
240 15.245	19.68	20/100	VUD	Delhi	India
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	7.5/50	—	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.
15.250	19.67	15/120	—	Moscow, Russia	U.S.S.R.
15.255	19.67	50	CKCX	Sackville, N.B.	Canada
15.255	19.67	50	APK3	Karachi	Pakistan
15.255	19.67	40	—	Kiev, Ukraine	U.S.S.R.
15.260	19.66	50/100	GSI	Overseas Service*	U.K.
15.260	19.66	15/120	—	Moscow, Russia	U.S.S.R.
15.265	19.65	35	—	Colombo (V.o.A.)	Ceylon
15.265	19.65	10/100	VUM	Madras	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	2	—	Manila, Luzon	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.
15.275	19.64	100	DMQ15	Juelich	Germany (West)
15.275	19.64	50/100	APK	Karachi	Pakistan
15.275	19.64	50	WDSI	Brentwood, N.Y.	U.S.A.
15.275	19.64	15/120	—	Moscow, Russia	U.S.S.R.
15.280	19.63	7.5	ZL4	Wellington	New Zealand
15.285	19.63	20	ORU	Wavre	Belgium
✕ 15.285	19.63	30	OLR	Podebrady	Czechoslovakia
15.285	19.63	8/100	—	Munich (V.o.A.)	Germany (West)
15.285	19.63	35	—	Salonika (V.o.A.)	Greece
15.285	19.63	20/100	VUD	Delhi	India
15.285	19.63	35/100	—	Tangier (V.o.A.)	Morocco
15.285	19.63	50/100	APK	Karachi	Pakistan
15.285	19.63	50	WDSI	Brentwood, N.Y.	U.S.A.
15.290	19.62	6	LRU	Buenos Aires	Argentina
15.290	19.62	20/100	VUD	Delhi	India
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	50/200	KNBH	Dixon, Cal.	U.S.A.
15.290	19.62	15/120	—	Moscow, Russia	U.S.S.R.
15.295	19.61	100	—	Allouis	France

Mc/s	Metres	kW	Call	Station and Country	
15.295	19.61	35	—	Salonika (V.o.A.)	Greece
X15.295	19.61	35/100	—	Tangier (V.o.A.)	Morocco
15.300	19.61	7.5/100	—	Tebrau	Malaya
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	DZH8	Manila, Luzon	Philippines
15.305	19.60	50/100	APK	Karachi	Pakistan
X15.305	19.60	100	HER6	Schwarzenburg	Switzerland
15.305	19.60	15/120	—	Moscow, Russia	U.S.S.R.
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.
15.315	19.59	50	VLC15	Shepparton, Victoria	Australia
15.315	19.59	35	—	Salonika (V.o.A.)	Greece
X15.315	19.59	100	HEU6	Schwarzenburg	Switzerland
15.315	19.59	50/200	KCBR	Delano, Cal.	U.S.A.
15.320	19.58	50	VLC15	Shepparton, Victoria	Australia
X15.320	19.58	50	CKCS	Sackville, N.B.	Canada
15.320	19.58	50/100	—	Cairo	Egypt
15.320	19.58	—	—	Kaunas, Lithuania	U.S.S.R.
15.325	19.58	20/100	VUD	Delhi	India
15.325	19.58	50/100	I2RO	Rome	Italy
15.325	19.58	50/100	JOB 2J	Tokio	Japan
X15.330	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	100	WLWO	Cincinnati, Ohio	U.S.A.
X15.330	19.57	25/100	WGEO	Schenectady, N.Y.	U.S.A.
15.335	19.56	100	ORU	Wavre	Belgium
15.335	19.56	20	PRA12	Porto Alegre	Brazil
15.335	19.56	50	APK	Karachi	Pakistan
15.335	19.56	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
15.335	19.56	15/120	—	Moscow, 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
X15.343	19.55	7.5	—	Athens	Greece
15.345	19.55	1	ETA	Addis Ababa	Ethiopia
15.345	19.55	3.5/50	BED57	Taipei	Formosa
15.345	19.55	5	—	Luxembourg	Luxembourg
15.345	19.55	35/100	—	Tangier (V.o.A.)	Morocco
X15.346	19.55	5	LRA 33	Buenos Aires	Argentina
15.350	19.54	100	—	Allouis	France
15.350	19.54	20/100	VUD	Delhi	India
15.350	19.54	35/100	—	Tangier (V.o.A.)	Morocco
15.350	19.54	20/80	WRUL	Boston, Mass.	U.S.A.
15.350	19.54	50	WDSI	Brentwood, N.Y.	U.S.A.
15.350	19.54	15/120	—	Moscow, Russia	U.S.S.R.
15.355	19.54	15/120	—	Moscow, Russia	U.S.S.R.
15.360	19.53	7.5/100	—	Tebrau	Malaya
15.360	19.53	50/100	—	Overseas Service*	U.K.

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Mc/s	Metres	kW	Call	Station and Country
15.365	19.53	40	—	Lopik Netherlands
x 15.370	19.52	25	ZYC9	Rio de Janeiro <i>R. Tupi</i> 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	Juelich Germany (West)
15.375	19.51	50/100	—	Overseas Service* U.K.
x 15.380	19.51	35/100	—	Tangier (V.o.A.) Morocco
x 15.380	19.51	35	—	Okinawa (V.o.A.) Okinawa Island
15.380	19.51	100	—	Lisbon Portugal
15.385	19.49	35/100	—	Tangier (V.o.A.) Morocco
15.386	19.49	50/100	—	Cairo Egypt
15.390	19.49	15/240	—	Peking China
15.390	19.49	50/100	—	Overseas Service* U.K.
15.390	19.49	20/80	WRUL	Boston, Mass. U.S.A.
15.390	19.49	50	WBOU	Bound Brook, N.J. U.S.A.
x 15.390	19.49	15/120	—	Moscow, Russia U.S.S.R.
15.390	19.49	10	CXA60	Montevideo Uruguay
15.392	19.49	50	—	Quito Ecuador
15.395	19.49	50/100	—	Cairo Egypt
15.400	19.48	100	—	Allouis France
15.400	19.48	50/100	—	Rome Italy
15.400	19.48	50/100	—	Overseas Service* U.K.
15.400	19.48	15/120	—	Moscow, Russia U.S.S.R.
15.405	19.48	50	CKLX	Sackville, N.B. Canada
15.405	19.48	100	DMQ15	Norden Germany (West)
15.405	19.48	35/100	—	Tangier (V.o.A.) Morocco
15.405	19.48	15/120	—	Moscow, Russia U.S.S.R.
15.407	19.47	5	PZC	Paramaribo Dutch Guiana
15.410	19.47	8/100	—	Munich (V.o.A.) Germany (West)
15.410	19.47	35/100	—	Tangier (V.o.A.) Morocco
15.410	19.47	1	OBX4C	Lima Peru
15.410	19.47	15/120	—	Moscow, Russia U.S.S.R.
15.413	19.47	15/240	—	Peking China
15.420	19.45	100	—	Allouis France
15.420	19.45	50	—	Brazzaville French Eq. Africa
15.420	19.45	50/100	—	Overseas Service* U.K.
15.420	19.45	15/120	—	Moscow, Russia U.S.S.R.
15.422	19.45	50/200	—	Madrid Spain
15.425	19.45	15	—	Kootwijk Netherlands
15.425	19.45	15/120	—	Moscow, Russia U.S.S.R.
15.430	19.44	35/100	—	Tangier (V.o.A.) Morocco
15.430	19.44	15/120	—	Moscow, Russia U.S.S.R.
15.435	19.44	3.5/50	—	Taipei Formosa
15.435	19.44	7.5/100	—	Tebrau Malaya
15445? 15.435	19.44	100	—	Lopik Netherlands
15.435	19.44	50/100	GWE	Overseas Service* U.K.
15.440	19.43	1.5	—	Brazzaville French Eq. Africa
15.440	19.43	8/100	—	Munich (V.o.A.) Germany (West)
15.440	19.43	20/100	VUD	Delhi India
15.440	19.43	50	WBOU	Bound Brook, N.J. U.S.A.
15.440	19.43	15/120	—	Moscow, Russia U.S.S.R.
15.445	19.42	15/240	—	Peking China
15.447	19.42	50/100	GRD	Overseas Service* U.K.
15.450	19.42	15/240	—	Peking China
15.455? 19.41	40	—	—	Kiev, Ukraine U.S.S.R.
15.465	19.40	50/100	—	Cairo Egypt

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Mc/s	Metres	kW	Call	Station and Country	
15.470	19.39	15/120	—	Moscow, Russia	U.S.S.R.
15.480	19.38	15/240	—	Peking	China
15.480	19.38	20/100	VUD	Delhi	India
15.520	19.33	8/100	—	Munich (V.o.A.)	Germany (West)
15.575	19.26	15/240	—	Peking	China
15.590	19.24	15/240	—	Peking	China
15.595	19.24	50	FZI	Brazzaville	French Eq. Africa
15.600	19.23	1	HSK	Bangkok	Thailand
15.610	19.22	15/240	—	Peking	China
15.710	19.10	15/240	—	Peking	China
15.875	18.90	8/100	—	Munich (V.o.A.)	Germany (West)
15.880	18.92	15/240	—	Peking	China
16.110	18.62	15/240	—	Peking	China
16.355	18.34	15/240	—	Peking	China
17.494	17.15	15/240	—	Peking	China
17.530	17.11	15/240	—	Peking	China
17.605	17.04	15/240	—	Peking	China
17.677	16.97	1	CR5SB	Sao Thome	St. Thomas Island
17.680	16.97	15/240	—	Peking	China
17.700	16.95	50/100	GVP	Overseas Service*	U.K.
17.700	16.95	15/120	—	Moscow, Russia	U.S.S.R.
17.705	16.94	10	ZYA56	Sao Paulo	Brazil
17.705	16.94	20/100	VUD	Delhi	India
17.705	16.94	35/100	—	Tangier (V.o.A.)	Morocco
17.705	16.94	50/100	—	Overseas Service*	U.K.
17.710	16.94	50	CHSB	Sackville, N.B.	Canada
17.710	16.94	100	—	Allouis	France
17.710	16.94	20/100	VUD	Delhi	India
17.710	16.94	35/100	—	Tangier (V.o.A.)	Morocco
17.710	16.94	20/80	WRUL	Boston, Mass.	U.S.A.
17.710	16.94	40	—	Kiev, Ukraine	U.S.S.R.
17.711	16.94	7.5	APD	Dacca	Pakistan
17.715	16.93	100	—	Allouis	France
17.715	16.93	50/100	GRA	Overseas Service*	U.K.
17.715	16.93	40	—	Kiev, Ukraine	U.S.S.R.
17.720	16.93	100	—	Allouis	France
17.720	16.93	35	—	Salonika (V.o.A.)	Greece
17.720	16.93	100	HEU7	Schwarzenburg	Switzerland
17.720	16.93	35/100	—	Tangier (V.o.A.)	Morocco
17.730	16.92	7.5	—	Colombo	Ceylon
17.730	16.92	20/100	VUD	Delhi	India
17.730	16.92	50/100	GVQ	Overseas Service*	U.K.
17.735	16.92	20/100	VUD	Delhi	India
17.735	16.92	50	APK	Karachi	Pakistan
17.740	16.91	50/100	—	Rome	Italy
17.740	16.91	50/100	GRQ	Overseas Service*	U.K.
17.740	16.91	110	WLWO	Cincinnati, Ohio	U.S.A.
17.740	16.91	15/120	—	Moscow, Russia	U.S.S.R.
17.745	16.90	7.5	—	Athens	Greece
17.745	16.90	50/100	—	Overseas Service*	U.K.
17.745	16.90	5	—	St. Georges, Grenada	West Indies
17.746	16.90	15/240	—	Peking	China
17.750	16.90	50	APK	Karachi	Pakistan
17.750	16.90	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
17.750	16.90	35/100	—	Tangier (V.o.A.)	Morocco
17.750	16.90	20/80	WRUL	Boston, Mass.	U.S.A.

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HUIZEN - LOPIK

NEDERLAND

Mc/s	Metres	kW	Call	Station and Country	
17.750	16.90	15/120	—	Moscow, Russia	U.S.S.R.
17.753	16.90	30	—	Podebrady	Czechoslovakia
17.755	16.90	7.5/100	—	Tebrau	Malaya
17.755	16.90	5/100	LKW	Fredrikstad	Norway
X 17.755	16.90	20/80	WBOU	Boston, Mass.	U.S.A.
17.755	16.90	15/120	—	Moscow, Russia	U.S.S.R.
17.756	16.90	20/100	VUD	Delhi	India
17.760	16.89	50/100	—	Cairo	Egypt
17.760	16.89	50	WBOU	Bound Brook, N.J.	U.S.A.
17.760	16.89	50/200	KNBH	Dixon, Cal.	U.S.A.
17.760	16.89	25/100	WGEO	Schenectady, N.Y.	U.S.A.
17.765	16.89	20/100	VUD	Delhi	India
17.765	16.89	15/120	—	Moscow, Russia	U.S.S.R.
17.767	16.89	100	—	Allouis	France
17.770	16.88	50/100	—	Rome	Italy
17.770	16.88	7.5	ZL5	Wellington	New Zealand
17.770	16.88	50	APK	Karachi	Pakistan
17.770	16.88	100	—	Horby	Sweden
X 17.770	16.88	50/200	KCBR	Delano, Cal.	U.S.A.
X 17.773	16.88	7.5	—	Athens	Greece
X 17.775	16.88	5	PHI	Lopik	Netherlands
17.780	16.87	15/240	—	Peking	China
17.780	16.87	20/100	VUD	Delhi	India
X 17.780	16.87	50	WBOU	Bound Brook, N.J.	U.S.A.
17.780	16.87	15/120	—	Moscow, Russia	U.S.S.R.
17.784	16.87	5/25	—	Saigon, Vietnam	Indo-China
X 17.784	16.87	100	HER7	Schwarzenburg	Switzerland
17.785	16.87	50/100	JOA9	Tokio	Japan
17.785	16.87	15/120	—	Moscow, Russia	U.S.S.R.
17.786	16.87	50	APK	Karachi	Pakistan
17.790	16.86	100	VLB17	Shepparton, Victoria	Australia
17.790	16.86	20/100	VUD	Delhi	India
17.790	16.86	10	—	Lourenco Marques	Mozambique
17.790	16.86	50/100	GSG	Overseas Service*	U.K.
17.790	16.86	15/120	—	Moscow, Russia	U.S.S.R.
X 17.795	16.86	3	OEI37	Vienna	Austria
17.795	16.86	100	OLR	Podebrady	Czechoslovakia
17.795	16.86	8/100	—	Munich (V.o.A.)	Germany (West)
17.795	16.86	20/100	VUD	Delhi	India
17.795	16.86	50/100	JOA22	Tokio	Japan
17.795	16.86	35	—	Okinawa (V.o.A.)	Okinawa Island
17.795	16.86	110	WLWO	Cincinnati, Ohio	U.S.A.
X 17.797	16.85	10	OIX5	Pori	Finland
17.800	16.85	100	VLB17	Shepparton, Victoria	Australia
17.800	16.85	35	—	Colombo	Ceylon
17.800	16.85	20/100	VUD	Delhi	India
X 17.800	16.85	50/100	—	Rome	Italy
17.800	16.85	7.5/100	—	Warsaw	Poland
17.800	16.85	50/200	KNBH	Dixon, Cal.	U.S.A.
17.800	16.85	15/120	—	Moscow, Russia	U.S.S.R.
17.805	16.85	1.5	DZI6	Manila, Luzon	Philippines
17.805	16.85	5	—	St. Georges, Grenada	West Indies
17.810	16.84	3.5/50	—	Taipei	Formosa
17.810	16.84	35	—	Salonika (V.o.A.)	Greece
17.810	16.84	50/100	GSV	Overseas Service*	U.K.
17.815	16.84	30	OLR	Podebrady	Czechoslovakia

Mc/s	Metres	kW	Call	Station and Country	
17.815	16.84	20/100	DMQ17	Juelich	Germany (West)
17.815	16.84	100	DMR50	Norden	Germany (West)
17.815	16.84	35/100	—	Tangier (V.o.A.)	Morocco
17.815	16.84	15/120	—	Moscow, Russia	U.S.S.R.
✕17.820	16.84	50	CKNC	Sackville, N.B.	Canada
17.820	16.84	7.5	—	Colombo	Ceylon
17.820	16.84	20/100	VUD	Delhi	India
17.820	16.84	7.5	ZL14	Wellington	New Zealand
17.825	16.83	50/100	JOA20	Tokio	Japan
17.825	16.83	10	LLN	Fredrikstad	Norway
✕17.825	16.83	100	TAV	Ankara	Turkey
17.825	16.83	15/120	—	Moscow, Russia	U.S.S.R.
17.830	16.83	30	—	Podebrady	Czechoslovakia
17.830	16.83	20/100	VUD	Delhi	India
17.830	16.83	35	—	Okinawa (V.o.A.)	Okinawa Island
17.830	16.83	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
17.830	16.83	50	WDSI	Brentwood, N.Y.	U.S.A.
17.830	16.83	50/200	KNBH	Dixon, Cal.	U.S.A.
17.830	16.83	15/120	—	Moscow, Russia	U.S.S.R.
✕17.835	16.82	15/240	—	Peking	China
17.835	16.82	20	—	Taipei	Formosa
17.835	16.82	7	FZI	Brazzaville	French Eq. Africa
17.835	16.82	20/100	VUD	Delhi	India
17.835	16.82	100	CSA	Lisbon	Portugal
17.835	16.82	35/100	—	Tangier (V.o.A.)	Morocco
17.840	16.82	10	VLG17	Lyndhurst, Victoria	Australia
17.840	16.82	100	VLB17	Shepparton, Victoria	Australia
✕17.840	16.82	100	—	Horby	Sweden
17.840	16.82	35/100	—	Tangier (V.o.A.)	Morocco
17.840	16.82	50/100	—	Overseas Service*	U.K.
17.840	16.82	15/120	—	Moscow, Russia	U.S.S.R.
17.840	16.82	5/100	HVJ	Vatican City	Vatican City
17.845	16.81	100	ORU	Wavre	Belgium
17.845	16.81	100	—	Colombo	Ceylon
17.845	16.81	20/100	DMQ17	Juelich	Germany (West)
17.845	16.81	50/100	JOA21	Tokio	Japan
17.845	16.81	35/100	—	Tangier (V.o.A.)	Morocco
17.845	16.81	7.5/50	—	Manila, Luzon (V.o.A.)	Philippines
17.850	16.81	10	PRL9	Rio de Janeiro	Brazil
17.850	16.81	100	—	Allouis	France
✕17.850	16.81	20/100	VUD	Delhi	India
17.850	16.81	50/200	KCBR	Delano, Cal.	U.S.A.
17.850	16.81	40	—	Kiev, Ukraine	U.S.S.R.
17.855	16.81	35/100	—	Tangier (V.o.A.)	Morocco
✕17.855	16.81	50/100	JOA24	Tokio	Japan
17.860	16.80	15/240	—	Peking	China
17.860	16.80	20	—	Damascus	Syria
17.860	16.80	50/100	—	Overseas Service*	U.K.
17.865	16.79	20/100	VUD	Delhi	India
17.865	16.79	15/120	—	Moscow, Russia	U.S.S.R.
17.870	16.79	7.5/100	—	Tebrau	Malaya
17.870	16.79	50/100	GRP	Overseas Service*	U.K.
17.870	16.79	15/120	—	Moscow, Russia	U.S.S.R.
17.875	16.78	1	PRL4	Rio de Janeiro	Brazil
17.875	16.78	20/100	DMQ17	Juelich	Germany (West)
17.875	16.78	50	WDSI	Brentwood, N.Y.	U.S.A.

21-484 13-96

Athens

Greece

Mc/s	Metres	kW	Call	Station and Country	Station and Country
17.875	16.78N	15/120	—	Moscow, Russia	U.S.S.R.
17.880	16.78	50	APK	Karachi	Pakistan
17.880	16.78	100	CSA	Lisbon	Portugal
17.880	16.78	50/100	—	Overseas Service*	U.K.
17.880	16.78	110	WLWO	Cincinnati, Ohio	U.S.A.
17.880	16.78	50/200	KCBR	Delano, Cal.	U.S.A.
17.880	16.78NT	50	—	Komsomolsk, Russia	U.S.S.R.
*17.890	16.77NF	10	HCJB	Quito	Ecuador
17.890	16.77	7.5/100	—	Tebrau	Malaya
17.890	16.77N	7.5	APD	Dacca	Pakistan
17.890	16.77	50/100	GVO	Overseas Service*	U.K.
17.895	16.76N	8/100	—	Munich (V.o.A.)	Germany (West)
17.895	16.76	50/100	CSA43	Lisbon	Portugal
17.895	16.76	15/120	—	Moscow, Russia	U.S.S.R.
17.900	16.76N	15/240	—	Peking	China
17.900	16.76	15/120	—	Moscow, Russia	U.S.S.R.
17.910	16.75	15/120	—	Moscow, Russia	U.S.S.R.
X 17.910	16.75N	5	—	St. Georges, Grenada	West Indies
X 17.915	16.75N	50/100	—	Cairo	Egypt
17.920	16.74N	100	—	Allouis	France
17.941	16.72N	10	OIX5	Pori	Finland
X 18.640	16.10N	20	—	Kabul	Afghanistan
20.013	14.99NF	8/100	—	Munich (V.o.A.)	Germany (West)
X 21.450	13.99N	100	OLR	Podebrady	Czechoslovakia
X 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	13.98N	50/200	KCBR	Delano, Cal.	U.S.A.
21.460	13.98	50/200	KNBH	Dixon, Cal.	U.S.A.
21.470	13.97	7.5/100	—	Tebrau	Malaya
21.470	13.97	50/100	GSH	Overseas Service*	U.K.
X 21.480	13.97N	100	—	Lopik	Netherlands
21.485	13.96	110	WLWO	Cincinnati, Ohio	U.S.A.
21.490	13.96	20/100	—	Juelich	Germany (West)
21.490	13.96	50/100	—	Overseas Service*	U.K.
21.490	13.96	15/120	—	Moscow, Russia	U.S.S.R.
21.495	13.95	100	CSA67	Lisbon	Portugal
X 21.500	13.95	35/100	—	Tangier (V.o.A.)	Morocco
21.500	13.95N	100	CSA	Lisbon	Portugal
X 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	50/200	KNBH	Dixon, Cal.	U.S.A.
21.505	13.95	20/100	VUD	Delhi	India
X 21.509	13.95N	20	ELWA	Monrovia	Liberia
21.510	13.95	100	ORU	Wavre	Belgium
21.515	13.94N	2	DZI8	Manila, Luzon	Philippines
21.515	13.94	110	WLWO	Cincinnati, Ohio	U.S.A.
21.515	13.94N	5/100	HVJ	Vatican City	Vatican City
X 21.520	13.94	100	HER8	Schwarzenburg	Switzerland
X 21.530	13.93	50/100	GSJ	Overseas Service*	U.K.
X 21.540	13.93	100	VLB21	Shepparton, Victoria	Australia
21.540	13.93	50	WBOU	Bound Brook, N.J.	U.S.A.
X 21.550	13.92	50/100	GST	Overseas Service*	U.K.
21.554	13.92	50	APK	Karachi	Pakistan
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

X 21.735 13.81 20/100
 X 21.620 13.87 20/100

Juelich
 Tokio

B. Deutschland
 Japan

Mc/s	Metres	kW	Call	Station and Country
21.560	13.91N	15/120	—	Moscow, Russia U.S.S.R.
X21.570	13.91	20/100	VUD	Delhi India
21.570	13.91NT	50	WBOU	Bound Brook, N.J. U.S.A.
21.570	13.91NT	110	WLWO	Cincinnati, Ohio U.S.A.
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
X21.585	13.90N	10/100	VUB	Bombay India
21.585	13.90	20	—	Paradys South Africa
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	100	VLB21	Shepparton, Victoria Australia
X21.600	13.89	50	CKRP	Sackville, N.B. Canada
21.605	13.88	100	HEIR	Schwarzenburg Switzerland
21.610	13.88	35/100	—	Tangier (V.o.A.) Morocco
21.610	13.88	110	WLWO	Cincinnati, Ohio U.S.A.
21.610	13.88N	50/200	KCBR	Delano, Cal. U.S.A.
21.610	13.88	50/200	KNBH	Dixon, Cal. U.S.A.
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
21.625	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.
21.640	13.86	50/100	GRZ	Overseas Service* U.K.
21.640	13.86N	15/120	—	Moscow, Russia U.S.S.R.
21.648	13.86N	F100	CSA	Lisbon Portugal
X21.650	13.86	20/100	DMQ21	Juelich Germany (West)
21.650	13.86	20/100	VUD	Delhi India
21.650	13.85NT	50	WDSI	Brentwood, N.Y. U.S.A.
21.655	13.85N	7.5/100	—	Tebrau Malaya
21.660	13.85	50/100	MCX	Overseas Service* U.K.
21.670	13.84	5	LLP	Oslo Norway
21.670	13.84	15/120	—	Moscow, Russia U.S.S.R.
21.675	13.84	50/100	GVR	Overseas Service* U.K.
21.680	13.84	100	VLD21	Shepparton, Victoria Australia
21.680	13.84N	50	—	Leopoldville Belgian Congo
21.680	13.84N	35/100	—	Tangier (V.o.A.) Morocco
21.680	13.84	15/120	—	Moscow, Russia U.S.S.R.
21.690	13.83N	20/100	VUD	Delhi India
21.690	13.83	35/100	—	Tangier (V.o.A.) Morocco
21.690	13.83N	50	CSA	Lisbon Portugal
21.690	13.83	100	—	Horby Sweden
21.690	13.83N	50	WDSI	Brentwood, N.Y. U.S.A.
21.700	13.83	20/100	VUD	Delhi India
X21.700	13.83N	50	CSA49	Lisbon Portugal
21.705	13.82N	35/100	—	Tangier (V.o.A.) Morocco
21.710	13.82N	F100	ORU	Wavre - Overijse Belgium
21.710	13.82	50/100	GVS	Overseas Service* U.K.
21.720	13.81	100	—	Allouis France
21.720	13.81	7.5/100	—	Tebrau Malaya
21.720	13.81	100	—	Horby Sweden
21.730	13.81	5	LLQ	Oslo Norway
21.730	13.81NT	110	WLWO	Cincinnati, Ohio U.S.A.

X Q1.725

Colo. m
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Mc/s	Metres	kW	Call	Station and Country
21.740	13.80	50/100	MCY BBC	Overseas Service* U.K.
21.740	13.80	50/200	KCBR	Delano, Cal. U.S.A.
21.740	13.80	5/100	HVJ RV	Vatican City Vatican City
X 25.610	11.71N	100	— RNW	Lopik Netherlands
X 25.615	11.71	3	OEI38OR	Vienna Austria
? OUT OF NOW X 25.640	11.70	100	HER9 SBC	Schwarzenburg Switzerland
25.640	11.70	35/100	— VOA	Tangier (V.o.A.) Morocco
25.650	11.70N	50/100	— BBC	Overseas Service* U.K.
25.670	11.69	35/100	— VOA	Tangier (V.o.A.) Morocco
25.670	11.69N	50/100	— BBC	Overseas Service* U.K.
25.675	11.69	50	VLC25 ABC	Shepparton, Victoria Australia
25.683	11.68N	20/100	DMQ25 DW	Juelich Germany (West)
25.700	11.67N	7.5/50	— VOA	Manila, Luzon (V.o.A.) Philippines
25.720	11.67	50/100	GSR BBC	Overseas Service* U.K.
25.735	11.66	50	VLC25 ABC	Shepparton, Victoria Australia
25.750	11.65	50/100	GSQ BBC	Overseas Service* U.K.
25.760	11.65	20	— SABC	Paradys South Africa
25.780	11.64N	35/100	— VOA	Tangier (V.o.A.) Morocco
X 25.801	11.63	20	— SABC	Paradys South Africa
25.820	11.62	20	— SABC	Paradys South Africa
X 25.840	11.62	50/100	GSS BBC	Overseas Service* U.K.
25.880	11.60	35/100	— VOA	Tangier (V.o.A.) Morocco
25.890	11.59	35/100	— VOA	Tangier (V.o.A.) Morocco
25.900	11.59	100	DMR61 DW	Norden Germany (West)
25.900	11.59	5/100	LLA NR	Oslo Norway
25.920	11.57N	50/100	— BBC	Overseas Service* U.K.
X 25.945	11.56	3	OEI39OR	Vienna Austria
25.950	11.56	50	WBOU	Bound Brook, N.J. U.S.A.
25.999	11.54	100	ORU RNB	Wavre Belgium
26.040	11.52N	50/100	— BBC	Overseas Service* U.K.
26.040	11.52	50	WBOU	Bound Brook, N.J. U.S.A.
X 26.080	11.50	50/100	GSK BBC	Overseas Service* U.K.

scheduled ops to NR 0215-1815

Short-wave Broadcasting Bands

By international agreement, reached at Atlantic City in 1947, broadcasting on the short waves is limited to certain bands; these are listed below. It will be seen, however, from the foregoing list that many stations are operating outside these bands. Some bands are officially shared with other services and the use of others (marked T) is officially limited to the Tropical Zone.

2.300 — 2.498	Mc/s	(T)	} Shared with fixed and mobile services.
3.200 — 3.400		(T)	
3.950 — 4.000			Shared with fixed service.
4.750 — 4.995		(T)	} Shared with fixed and mobile services.
5.005 — 5.060		(T)	
5.950 — 6.200			
7.100 — 7.300			
9.500 — 9.775			First 50 kc/s shared with amateurs.
11.700 — 11.975			
15.100 — 15.450			
17.700 — 17.900			
21.450 — 21.750			
25.600 — 26.100			

Geographical List of Short-wave Stations of the World

	Mc/s		Mc/s		Mc/s
ADEN	7.170	Luanda	4.957	Shepparton, Vic.	15.210X
AFGHANISTAN		"	6.036	"	15.220 ²⁴
Kabul	9.973	"	6.355	"	15.315X
"	18.640	"	9.632	"	15.320X ^{OK}
AFRICA,		"	11.745	"	17.790
FRENCH EQ.		"	11.862	"	17.800
Brazzaville	3.232	Lubango	5.022	"	17.840X
"	4.729	Mossamedes	7.230	"	21.540X
"	4.792	Nova Lisboa	4.852	"	21.600
"	4.975	"	7.150	"	21.680X
"	✓ 5.967	"	11.924	"	25.675
"	✓ 9.625	Sa da Bandeira	5.022	"	25.735
"	✓ 9.730	"	9.755	Sydney, N.S.W.	6.090
"	9.937	Silva Porto	4.842	AUSTRIA	
"	11.454	ARGENTINA		Vienna	5.984X
"	7 ²⁵ ✓ 11.930	Buenos Aires	5.986	"	6.155X
"	11.960	"	6.065	"	7.135X
"	✓ 11.971	"	6.090	"	7.245X
"	15.187	"	X 6.120	"	7.260
"	✓ 15.420	"	6.180	"	9.505
"	15.440	"	X 9.660	"	9.615
"	15.595	"	X 9.690	"	9.645
"	17.835	"	9.740	"	9.665
Fort Lamy	4.905	"	9.760	"	11.775X
"	6.200	"	11.880	"	11.785
AFRICA,		"	X 15.290	"	11.935
FRENCH WEST		"	X 15.346	"	17.795X
(See Dahomey, Ivory Coast, Senegal, Sudan and Togoland)		AUSTRALIA		"	25.615
AFRICA,		Brisbane, Qld.	4.920	"	25.945
PORT. EAST		"	9.660	AZORES	
(See Mozambique)		Lyndhurst, Vic.	6.150	Punta Delgada	4.846 ⁽²⁴⁾ } 1
AFRICA,		"	9.680	"	11.925 ² }
PORT. WEST		"	11.850	BALI	
(See Angola)		"	11.880	(See Indonesia)	
ALBANIA		"	15.230	BELGIUM	
Scutari	8.215	"	17.840	Wavre	9.705
Tirana	6.900	Perth, W.A.	4.897	"	9.745
"	7.848	"	6.140	"	9.767
ALGERIA		"	9.610	"	11.720
Algiers	6.160	"	11.840	"	11.850
ANDORRA		Shepparton, Vic.	7.220X	"	15.285
Andorra	5.979	"	7.280	"	15.335
ANGOLA		"	9.500	"	17.845
Benguela	5.042	"	9.580X	"	21.510
"	9.502	"	9.615	"	21.710
Dondo	4.775	"	11.710X	"	25.999
Luanda	4.843	"	11.740X	BOLIVIA	
"	4.855	"	767 11.770	Cochabamba	1 6.160 CP 40
"	4.868	"	11.810X	La Paz	1 6.150 CP 12
		"	15.160X	"	1 9.437 CP 36
		"	15.200X	"	10 9.555 CP 5

	Mc/s		Mc/s		Mc/s
BORNEO		✓ Rio de Janeiro	15.370	Sackville, N.B.	11.900
(See Indonesia)		" "	17.850	" "	11.945
BORNEO, BRIT. N.		✓ Salvador	17.875	" "	15.090
Jesselton	4.970	" "	9.595	" "	15.105
"	5.980	✓ Sao Luiz	11.875	" "	15.190
"	6.090	✓ Sao Paulo	4.975	" "	15.320
"	7.180	" "	4.755	" "	15.255
"	7.240	" "	5.955	" "	15.405
"	9.660	" "	6.025	" "	17.710
"	9.740	" "	6.035	" "	17.820
BRAZIL		" "	6.055	" "	21.595
Aparecida	9.635	" "	6.095	" "	21.600
✓ Bahia	3.345	" "	6.125	Sydney, N.S.	6.010
✓ Belem	4.865	" "	6.165	Toronto, Ont.	6.070
✓ Belo Horizonte	6.000	" "	6.185	Vercheres,	
"	15.190	" "	9.505	Quebec	11.720
✓ Curitiba	6.045	" "	9.585	Winnipeg,	
"	9.545	" "	9.620	Manitoba	6.150
✓ Espirito Santo	5.055	" "	9.685	" "	11.720
✓ Fortaleza	6.103	" "	9.745	CANARY IS.	
"	15.165	" "	11.765	Las Palmas	9.475
Goiana	4.995	" "	11.855	Teneriffe	7.295
"	9.755	" "	11.924	CEBU	
"	11.815	" "	11.965	(See Philippines)	
Macara	4.815	" "	15.135	CELEBES	
✓ Manaus	4.805	" "	15.150	(See Indonesia)	
"	4.895	BULGARIA	17.705	CEYLON	
✓ Natal	4.925	Sofia	6.070	Colombo	3.395
✓ Nictheroy	6.195	"	7.255	"	4.870
Pocos de Caldas	9.645	"	7.670	"	4.900
✓ Porto Alegre	6.135	"	9.700	"	4.940
"	9.675	BURMA		"	4.965
"	11.785	Rangoon	6.018	"	5.020
"	15.335	"	9.538	"	6.004
✓ Recife	3.265	CAMBODIA		"	6.095
"	6.015	(See Indo-China)		"	7.110
"	6.085	CAMEROONS		"	7.190
"	9.565	Duala	6.115	"	9.520
"	11.825	Garoua	9.900	"	11.770
"	11.864	Yaounde	4.975	"	11.835
"	15.145	CANADA		"	11.875
✓ Rio de Janeiro	4.905	Halifax, N.S.	6.130	"	11.975
"	5.015	Montreal,		"	15.120
"	5.045	Quebec	6.005	"	15.230
"	6.147	Sackville, N.B.	5.970	"	15.265
"	9.302	"	6.060	"	17.730
"	9.575	"	6.090	"	17.800
"	9.610	"	6.160	"	17.820
"	9.705	"	9.585	"	17.845
"	9.720	"	9.610	"	21.620
"	9.775	"	9.625	CHILE	
"	11.720	"	9.710	Antofagasta	5 6.010 CE 601
"	11.735	"	11.705	Santiago	1 5.750 CE 600
"	11.775	"	11.720	"	5 6.070 CE 607
"	11.935	"	11.720	"	1 6.190 CE 609
"	11.950	"	11.760	"	1 7.660 CE 766

	Mc/s		Mc/s		Mc/s
Chile—cont.		Peking	11.515	Bogota	5.010
2.5 Santiago CE 960	9.597	"	11.590	"	5.960
5 " CE 970	9.737	"	11.600	"	6.000
7.4 " CE 1174	11.743	"	11.650	"	6.020
2.5 " '1197	11.960	"	11.678	"	6.155
1 " '1180	12.000	"	11.801	"	6.163
1 " '1515	15.149	"	11.818	"	6.183
5 Valparaiso '615	6.150	"	11.895	✓Bucaramanga	4.845
5 " '1196	11.938	"	11.925	✓Cali	4.767
		"	11.935	"	6.040
CHINA		"	11.945	"	6.053
Chungking	11.203	"	11.960	"	6.135
Peking	3.914	"	11.975	"	6.195
"	3.985	"	12.123	✓Cartagena	4.930
"	4.065	"	13.845	"	4.965
"	5.125	"	15.027	✓Cucuta	4.815
"	5.220	"	15.060	"	4.887
"	5.880	"	15.095	✓Ibague	4.935
"	6.066	"	15.105	"	6.040
"	6.086	"	15.115	✓Manizales	5.027
"	6.100	"	15.175	"	6.105
"	6.225	"	15.190	✓Medellin	5.055
"	6.790	"	15.222	"	5.979
"	6.890	"	15.240	"	6.145
"	6.995	"	15.250	✓Neiva	4.875
"	7.080	"	15.353	Pasto	4.825
"	7.170	"	15.370	✓Pereira	4.867
"	7.200	"	15.390	✓Popayan	4.915
"	7.225	"	15.413	Sutatenza	5.075
"	7.245	"	15.445	CONGO, BELGIAN	
"	7.265	"	15.450	Elizabethville	6.030
"	7.297	"	15.480	Leopoldville	3.250
"	7.370	"	15.575	"	4.760 ✓
"	7.480	"	15.590	"	5.981
"	7.526	"	15.610	"	6.142
"	7.790	"	15.710	"	9.210
"	9.065	"	15.880	"	9.380 ✓
"	9.135	"	16.110	"	9.655
"	9.170	"	16.355	"	11.670
"	9.340	"	17.494	"	11.720 ✓
"	9.390	"	17.530	"	15.165
"	9.456	"	17.605	"	21.680
"	9.510	"	17.680	Stanleyville	6.085
"	9.530	"	17.746	COSTA RICA	
"	9.655	"	17.780	Limon	5.990
"	9.682	"	17.835	San Jose	6.007
"	9.704	"	17.860	"	6.035
"	9.715	"	17.900	"	6.036
"	9.736	"		"	6.152
"	9.756	COLOMBIA		"	6.165
"	9.773	Armenia	4.795	"	9.619
"	9.825	"	4.875	"	9.645
"	9.973	✓Barranquilla	4.779	"	
"	10.070	"	4.897	CUBA	
"	10.262	✓Bogota	4.834	Camaguey	9.620
"	11.110	"	4.895	Havana	5.085
"	11.290	"	4.945	"	6.130
"	11.420	"	4.957	"	9.025

	Mc/s		Mc/s		Mc/s
Cuba—cont.					
Havana	9.362	Podebrady	17.830	FIJI ISLANDS	
"	9.531	"	X 21.450	Suva	3.980
"	9.670	DAHOMEY		FINLAND	
"	9.832	Cotonou	4.900	Pori	6.120 X
"	11.750	DENMARK		"	9.555 X
"	11.800	Copenhagen	6.060	"	15.190 X
Santiago	9.740	"	7.306	"	17.797 X
CURACAO		"	X 9.520	"	17.941
Willemstad	2.460	"	X 15.165	FORMOSA	
CYPRUS		"	15.180	Taipei	5.955
Limassol	✓ 6.120	DOMINICAN		"	5.985
"	✓ 6.170	REPUBLIC		"	6.070
"	6.790	Ciudad Trujillo	3.285	"	6.105
"	✓ 9.650	"	5.970	"	7.293
"	✓ 11.718	"	6.115	"	7.340
CZECHOSLOVAKIA		"	9.735	"	9.575
Kostalany	X 6.172	/La Romana	4.815	"	9.775
Podebrady	3.175	ECUADOR		"	X 11.815
"	6.010	✓Guayaquil	4.650	"	11.840
"	X 6.025	"	6.065	"	11.968
"	X 6.055	✓Portoviejo	4.700	"	15.225
"	6.105	Quevedo	4.725	"	15.235
"	6.155	✓Quito	4.910	"	15.340
"	6.230	"	4.930	"	X 15.345
"	7.235	"	6.050	"	15.435
"	7.255	"	X 9.744	"	17.810
"	7.280	"	X 11.915	"	17.835
"	X 9.370	"	15.115	Tsoying	5.980
"	9.498	"	15.220	FRANCE	
"	X 9.504	"	15.392	Allouis	3.940
"	9.518	"	X 17.890	"	3.965
"	9.530	EGYPT		"	5.965
"	X 9.550	Cairo	7.055	"	5.993
"	9.590	"	7.141	"	6.045
"	X 9.671	"	9.475	"	6.145
"	11.711	"	9.646	"	6.200
"	X 11.720	"	9.740	"	6.665
"	X 11.745	"	9.750	"	7.050
"	11.835	"	9.762	"	7.105
"	11.875	"	9.770	"	7.120
"	11.900	"	9.790	"	7.160 X
"	11.925	"	11.710	"	7.220
"	11.935	"	11.720	"	7.240
"	11.975	"	X 11.990	"	7.245
"	15.111	"	12.029	"	7.260
"	15.120	"	15.320	"	7.280
"	X 15.125	"	15.330	"	7.625
"	15.143	"	15.386	"	7.650
"	15.167	"	15.395	"	9.540
"	X 15.183	"	15.465	"	9.550
"	15.191	"	17.760	"	9.560
"	X 15.230	"	X 17.915	"	9.585
"	X 15.285	ETHIOPIA		"	9.620
"	X 17.753	Addis Ababa	7.290	"	9.675
"	X 17.795	"	9.642	"	9.680
"	17.815	"	15.345	"	9.755
		"		"	9.765

	Mc/s		Mc/s		Mc/s
France—cont.		Munich	11.760	Salonika	7.265
Allouis	9.792	"	11.805	"	9.520
"	10.430	"	11.830	"	9.530
"	11.670	"	11.840	"	11.760
"	11.700	"	11.890	"	11.845
"	11.721	"	15.150	"	11.850
"	11.730	"	15.155	"	11.880
"	11.845	"	15.160	"	11.895
"	11.855	"	15.210	"	15.195
"	11.900	"	15.220	"	15.285
"	11.920	"	15.285	"	15.295
"	12.029	"	15.340	"	15.315
"	15.100	"	15.370	"	17.720
"	15.123	"	15.410	"	17.810
"	15.160	"	15.440		
"	15.190	"	15.520	GREENLAND	
"	15.240	"	15.875	Godthaab	9.525
"	15.295	"	17.795	GUATEMALA	
"	15.330	"	17.895	Guatemala City	5.952
"	15.350	"	21.013	"	5.979
"	15.400	Norden DWL	3.970	"	5.990
"	15.420	"	5.980	"	6.028
"	17.715	"	6.075	"	6.060
"	17.720	"	7.205	"	6.101
"	17.767	"	7.290	"	6.180
"	17.850	"	9.640	"	9.666
"	17.892	"	9.735	"	9.760
"	17.920	"	11.945	"	11.850
"	21.580	"	15.275	"	15.170
GERMANY, EAST		"	15.405	Quezaltenango	6.110
Berlin	6.115	"	17.815	"	6.210
"	7.150	"	25.920	GUIANA, BRITISH	
Leipzig	9.728	Stuttgart SDP	6.030	Georgetown	3.255
GERMANY, WEST				"	5.981
SWF Bad Durrheim	7.265	GHANA		GUIANA, DUTCH	
RIAS Berlin	6.005	Accra	3.365	Paramaribo	15.046
Frankfurt AFN	5.470	"	4.915	"	15.407
Juelich DW	11.795	"	9.640	GUINEA, FRENCH	
"	15.375	GOA		Conakry	4.910
"	17.845	Goa	4.886	"	6.155
"	17.875	"	4.930	GUINEA, PORT.	
"	21.490	"	7.071	Bissao	3.975
"	21.650	"	9.610	GUINEA, SPANISH	
"	25.683	GREECE		Santa Isabel	7.160
Munich	6.040	Athens	5.960	HAITI	
"	6.080	"	6.073	Cap Haitien	6.104
"	6.085	"	7.420	"	6.135
"	6.120	"	9.606	"	6.150
"	6.140	"	11.715	"	6.598
"	6.170	"	11.926	"	9.644
"	7.110	"	15.343	"	9.648
"	7.155	"	17.745	"	9.648
"	7.250	"	17.773	Les Gonaires	5.060
"	7.295	Mytilene	6.268	Port au Prince	5.755
"	9.545	Salonika	6.015	"	6.012
"	9.620	"	6.155	"	6.200
"	9.670	"	7.260	"	

	Mc/s	Delhi	Mc/s	Delhi	Mc/s
HAWAII			7.135		15.440
Honolulu	9.650	"	7.140	"	15.480
"	11.775	"	7.180	"	17.705
"	11.850	"	7.230	"	17.710
"	11.890	"	7.275	"	17.730
"	15.330	"	7.285	"	17.735
HONDURAS, BRIT.		"	7.290	"	17.756
Belize	3.300	"	9.505	"	17.765
"	4.950	"	9.520	"	17.780
"	6.100	"	9.545	"	17.790
HONDURAS REPUBLIC		"	9.560	"	17.795
Comayagua	6.110	"	9.585	"	17.800
San Pedro Sula	5.973	"	9.590	"	17.820
" " "	5.990	"	9.595	"	17.830
" " "	6.061	"	9.600	"	17.835
" " "	6.124	"	9.605	"	17.850
Tegucigalpa	5.875	"	9.615	"	17.865
"	5.960	"	9.620	"	21.505
"	6.087	"	9.630	"	21.570
"	6.175	"	9.635	" 21585	21.580
Tela	6.035	"	9.675	"	21.660
		"	9.705	"	21.690
HONG KONG		"	9.715	"	21.700
Victoria	3.940	"	9.720	Gauhati -	3.335
		"	9.725	"	4.775
HUNGARY		"	9.745	"	7.125
Budapest	6.195	"	9.850	"	9.575
"	7.222	"	11.630	Madras VUM	4.920
"	9.832	"	11.715	"	6.085
"	11.911	"	11.725	"	6.190
ICELAND		"	11.730	"	7.260
Reykjavik	12.177	"	11.745	" 21575	9.590
		"	11.755	"	9.765
INDIA		"	11.780	"	15.190
Bombay VUB	4.840	"	11.790	"	15.265
"	6.150	"	11.800	Simla	3.223
"	7.240	"	11.860	"	4.760
"	9.550	"	11.895	"	6.040
"	11.955	"	11.900	"	7.170
"	21.585	"	11.905		
Calcutta VUC	3.245	"	11.920	INDO-CHINA	
"	3.305	"	11.960	Dalat, Vietnam	7.268 "
"	6.010	"	12.020	Hanoi, Vietnam	7.372
"	7.210	"	15.040	" "	9.464
"	9.530	"	15.105	" "	9.940
Delhi VUD	4.815	"	15.130	" "	11.998
"	4.876	"	15.150	Hue, Vietnam	7.208
"	4.960	"	15.160	Pnompenh,	
"	5.990	"	15.170	Cambodia	6.090
"	6.040	"	15.225	" "	7.290
"	6.060	"	15.235	" "	9.755
"	6.190	"	15.240	" "	
"	7.080	"	15.285	Saigon, Vietnam	6.125
"	7.105	"	15.290	" "	7.260
"	7.120	"	15.310	" "	9.620
"	7.125	"	15.325	" "	17.784
"	7.130	"	15.350	Vientiane, Laos	4.520
		"		" "	7.145

	Mc/s		Mc/s		Mc/s
INDONESIA		IRAQ		Tokio 36A 9	17.785
Ambon,		Baghdad	3.297	" 36A 22	17.795
Moluccas	3.240	"	6.188	" 36A 20	17.825
" "	3.295	"	7.180	" 36A 21	17.845
" "	4.865	"	11.700	" 36A 24	17.855x
Bandjermassin,		ISRAEL		Yamata 36B 2	109.560
Borneo	3.250	Tel Aviv 75	6.719		
" "	5.970	" 44 50	7.189	JAVA (See Indonesia)	
Bandoeng, Java	4.945	" 21 2.5	7.192	JORDAN	
Bukittinggi,		" 31 50	9.009	Amman	6.047
Sumatra	5.067	" "	15.250	KASHMIR	
Den Pasar, Bali	3.395	ITALY		Srinagar	3.277
Djakarta, Java	2.240	Caltanissetta	6.060	"	4.860
" "	3.277	"	7.175	"	6.110
" "	3.936	"	9.515	"	9.660
" "	4.910	Rome	3.995	KENYA	
" "	6.045	"	5.960	Nairobi	3.315
" "	7.270	"	6.010	"	4.885
" "	9.710	"	7.275	"	4.933
" "	9.865	"	7.290	"	6.060
" "	11.770	"	9.575	"	7.172
" "	11.795	"	9.630	"	7.240
" "	15.150	"	9.710	"	
Djokjakarta,		"	9.780	KOREA	
Java	2.350	"	11.805	Pusan	7.936
" "	5.060	"	11.810	Pyongyang	5.700
" "	7.100	"	11.905	"	6.195
Kutaradja,		"	15.120	"	6.245
Sumatra	4.982	"	15.130	Seoul HLKA	20 3.910
Macassar,		"	15.325	" HLKA	100 5.980
Celebes	2.280	"	15.400	" HLKA	100 7.180
" "	4.752	"	17.740	" HLKA	100 9.638
" "	7.295	"	17.770	LAOS	
" "	9.554	"	17.800	(See Indo-China)	
Madium, Java	3.286	"	21.560	LEBANON	
Medan,		IVORY COAST		Beirut	6.500
Sumatra	4.928	Abidjan	4.824	"	8.000
" "	7.250	"	4.940	LIBERIA	
Menado,		JAMAICA		Monrovia	4.770
Celebes	2.700	(See West Indies)		"	9.652
" "	5.990	JAPAN		"	11.798
Padang,		Osaka 36B 3	7.515.225	"	11.986
Sumatra	2.480	Tokio 30Z 2	5 6.055	"	15.196
" "	4.301	" 3KH	5 7.257	"	21.509
" "	4.635	" 3K1	5 7.285	LIBYA	
" "	6.170	" 36B	50/100 9.505x	Benghazi	4.930
Palembang,		" 30B 20	" 9.525x	"	7.180
Java	2.430	" 30Z 3	10 9.595	"	7.220
" "	4.855	" 3K1 2	5 9.655	Tripoli	3.305
Pontianak,		" 30B 3	50/100 9.675	"	6.140
Borneo	3.375	" 36A 4	" 11.705x	"	6.188
Semarang, Java	2.490	" 3K1 3	50 11.800x	LUXEMBOURG	
" "	3.260	" 30B 22	50/100 11.965x	Luxembourg	6.090
Surabaya, Java	3.356	" 36A 6	" 15.135	"	15.345
" "	3.980	" 36B 5	" 15.235x		
Surakarta, Java	4.880	" 30B 21	15.325		
" "	7.250				

	Mc/s	MOLUCCAS (See Indonesia)	Mc/s	Tangier	Mc/s
LUZON (See Philippines)					11.895
MADAGASCAR		MONACO		"	11.900
Tananarive-	5 3.232	Monte Carlo	6.035	"	11.941
"	1 3.386	"	7.132	"	11.960
"	1 6.172	MOROCCO		"	14.858
"	1 7.155	Rabat 50	5.968	"	15.018
"	1 9.514	"	6.006	"	15.040
MALAYA		"	7.214	"	15.130
Kuala Lumpur	6.025	"	7.214	"	15.150
Singapore	4.780	Tangier	3.980	"	15.160
"	4.820	"	6.025	"	15.185
"	6.135	"	6.113	"	15.190
"	7.200	"	6.140	"	15.205
"	7.250	"	7.100	"	15.235
"	7.280	"	7.127	"	15.285
"	9.545	"	7.150	"	15.290
"	9.615	"	7.185	"	15.295
Tebrau	6.110	"	7.230	"	15.310
"	6.175	"	7.235	"	15.330
"	7.120	"	8.948	"	15.340
"	9.625	"	9.300	"	15.345
"	9.690	"	9.328	"	15.350
"	9.725	"	9.430	"	15.380
"	11.700	"	9.485	"	15.385
"	11.725	"	9.500	"	15.405
"	11.730	"	9.505	"	15.410
"	11.820	"	9.570	"	15.430
"	11.880	"	9.600	"	17.705
"	11.930	"	9.605	"	17.710
"	11.955	"	9.610	"	17.720
"	15.300	"	9.615	"	17.750
"	15.310	"	9.620	"	17.815
"	15.360	"	9.635	"	17.835
"	15.435	"	9.667	"	17.840
"	17.755	"	9.685	"	17.845
"	17.870	"	9.705	"	17.855
"	17.890	"	9.740	"	21.455
"	21.470	"	9.760	"	21.500
"	21.655	"	9.780	"	21.610
"	21.720	"	9.900	"	21.680
"		"	11.342	"	21.690
MARTINIQUE		"	11.458	"	21.705
Fort de France	9.704	"	11.715	"	25.640
MAURITIUS		"	11.719	"	25.670
Forest Side	15.038	"	11.730	"	25.780
MEXICO		"	11.740	"	25.880
Mexico City	10 56.111	"	11.760	"	25.890
"	XENW 109.500	"	11.765	Tetuan	5.950
"	ER 59.610	"	11.780	MOZAMBIQUE	
"	BT 109.625	"	11.785	Lourenco	
"	QQ 1 9.680	"	11.790	Marques	3.226
"	HH 11.880	"	11.805	"	4.868
"	WN 15.160	"	11.830	"	4.970
Morelia	KW 1 6.030	"	11.870	"	4.926
Tampico	TW 5 6.045	"	11.875	"	7.211
		"	11.890	"	9.765

	Mc/s		Mc/s		Mc/s
Mozambique—cont.		NORWAY		Karachi	15.155
Lourenco		Fredrikstad	6.130	"	15.205
Marques	11.765	"	9.610	"	15.235
"	11.985	"	11.735	"	15.245
"	15.110	"	11.850	"	15.255
"	17.790	"	15.170	"	15.270
Niassa	3.242	"	15.175	"	15.285
NEPAL		"	17.755	"	15.305
Katmandu	7.100	"	17.825	"	15.335
NETHERLANDS		Oslo	21.670	"	17.735
Huizen	9.590	"	21.730	"	17.755
"	9.745	"	25.900	"	17.770
"	11.950	Tromso	7.210	"	17.786
"	15.220	"	9.540	"	17.880
Kootwijk	15.425	"	9.550	"	21.554
Lopik	6.020			"	21.590
"	6.025	OKINAWA ISLAND		"	21.626
"	9.715	Okinawa	6.145	Lahore	3.395
"	11.730	"	7.160	"	3.914
"	11.915	"	9.630	"	4.800
"	15.365	"	11.830	"	4.807
"	15.435	"	15.380	"	6.030
"	17.775	"	17.795	"	6.075
"	21.480	"	17.830	"	7.225
"	25.610				
NEW CALEDONIA		PAKISTAN		PANAMA	
Noumea	6.035	Dacca	3.955	Colon	6.005
NEW GUINEA,		"	3.965	"	9.502
DUTCH		"	4.790	Panama City	5.990
Bosnek, Biak	5.045	"	5.970	"	6.060
NEW ZEALAND		"	5.980	"	6.045
Wellington	6.020	"	7.140	PARAGUAY	
7-5 " 2L 7	6.080	"	7.280	Ascuncion	5 5.970 ZPA 1
" 2L 18	9.520	"	9.615	"	1 9.737 ZPA 4
" 2L 2	9.540	"	15.265	"	1-2 11.850 ZPA 3
" 2L 8	9.620	"	17.711	"	5 11.973 ZPA 5
" 2L 3	11.780	"	17.890	"	3 15.196 ZPA 7
" 2L 19	11.830	Karachi	4.910		
" 2L 10	15.220	"	5.990	PERSIA	
" 2L 4	15.280	"	6.070	Ahwaz	7.950
" 2L 5	17.770	"	6.090	Isfahan	6.155
" 2L 14	17.820	"	6.220	Tabriz	6.086
NICARAGUA		"	6.235	Teheran	3.790
Granada	5.966	"	7.008	"	6.155
Leon	5.995	"	7.285	"	9.680
Managua	6.065	"	7.295	"	15.100
"	6.140	"	9.484		
NIGERIA		"	9.645	PERU	
Enugu	3.965	"	9.704	Arequipa	1 6.320 OAX 6E
"	6.101	"	9.738	Cuzco	1 6.130 OAX 7A
"	6.145	"	11.670	David	6.045
"	6.175	"	11.710	Lima	2 5.970 OAX 4Q
Ibadan	4.000	"	11.740	"	1 6.019 OAX 4Q
Lagos	4.800	"	11.780	"	156.082 OAX 4Z
"	4.901	"	11.840	"	1 6.098 OAX 4G
"	4.990	"	11.855	"	1 6.297 OAX 4B (OAX 4H)
"	9.655	"	11.885	"	19.336 OAX 4J
		"	11.915	"	2 9.420 OAX 4W

	Mc/s		Mc/s		Mc/s
SOMALIA		Madrid	15.117	Damascus	9.555
Mogadishu	4.978	"	15.422	"	11.664
SOMALILAND,		Malaga	6.208	"	11.750
BRITISH		Valencia	6.995	"	11.915
Hargeisa	7.127	Valladolid	7.005	"	15.165
SOMALILAND,		SUDAN		"	17.860
FRENCH		Khartoum	5.007	"	21.560
Djibouti	4.780	"	6.165	TAHITI	
SOUTH AFRICA		SUDAN, FRENCH		Papeete	6.135
Cape Town	5.892	Bamako	4.836	"	7.025
Paradys	3.290	SUMATRA (See		"	7.125
"	X3.316	Indonesia)		TAIWAN (See	
"	3.356	SURINAM (See		Formosa)	
"	X3.375	Guiana, Dutch)		TANGANYIKA	
"	4.800	SWEDEN		Dar-es-Salaam	5.050
"	4.810	Horby	6.065	"	7.167
"	4.875	"	6.095	TANGIER	
"	X 4.895	"	7.210	(See Morocco)	
"	4.945	"	9.535	THAILAND	
"	6.005	"	9.620	Bangkok	4.830
"	X 7.230	"	11.705	"	6.062
"	X 7.275	"	11.810	"	7.105
"	7.295	"	11.880	"	11.671
"	X 9.523	"	15.155	"	15.600
"	9.600	"	15.240	TOGOLAND	
"	X 9.680	"	17.770	Lome	5.036
"	9.720	"	17.840	TRIPOLITANIA	
"	11.750	"	21.690	(See Libya)	
"	X 11.840	"	21.720	TURKEY	
"	11.890	Motala	7.270	Ankara	7.285
"	11.945	SWITZERLAND		"	8.464
"	15.230	Schwarzenburg	3.955	"	9.515
"	21.585	"	3.985	"	15.160
"	25.760	"	6.055	"	15.195
"	25.801	"	6.165	"	17.825
"	25.820	"	7.210	"	6.267
SPAIN		"	9.520	"	7.082
Madrid	5.995	"	9.535	Istanbul	
"	6.130	"	9.655	"	
"	6.146	"	9.665	U.K.	
"	7.090	"	11.715	Overseas	
"	7.100	"	11.865	Service*	3.955
"	7.237	"	15.305	"	3.975
"	9.360	"	15.315	"	5.975
"	9.370	"	17.720	"	5.990
"	9.585	"	17.784	"	6.010
"	9.610	"	21.520	"	6.035
"	9.675	"	21.605	"	6.040
"	9.680	"	25.640	"	6.050
"	9.695	SYRIA		"	6.060
"	11.814	Damascus	6.165	"	6.070
"	11.986	"	7.145	"	6.080
"	12.045	"	7.238	"	

* 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.K.—cont.	Mc/s	Overseas	Mc/s	Overseas	Mc/s
Overseas		Service*	11.820	Service*	25.720
Service*	6.090	" "	11.840	" "	25.750
" "	6.110	" "	11.860	" "	25.840
" "	6.125	" "	11.880	" "	25.920
" "	6.140	" "	11.890	" "	26.040
" "	6.150	" "	11.910	" "	26.080
" "	6.165	" "	11.920		
" "	6.170	" "	11.930	U.S.A.	
" "	6.180	" "	11.945	Boston, Mass.	9.530 WRUL
" "	6.195	" "	11.955	" "	11.730
" "	7.110	" "	11.960	" "	11.780
" "	7.120	" "	11.970	" "	*15.130
" "	7.130	" "	12.040	" "	15.200
" "	7.135	" "	12.095	" "	*15.230
" "	7.150	" "	15.070	" "	15.350
" "	7.185	" "	15.110	" "	15.390
" "	7.200	" "	15.140	" "	*17.710
" "	7.210	" "	15.180	" "	*17.750
" "	7.220	" "	15.210	" "	*17.755
" "	7.230	" "	15.230	" "	*21.460
" "	7.250	" "	15.260	" "	*21.500
" "	7.260	" "	15.300	Bound Brook,	
" "	7.280	" "	15.310	N.J.	9.530 WJ30V
" "	7.320	" "	15.360	" "	9.550
" "	7.325	" "	15.375	" "	11.710
" "	9.410	" "	15.390	" "	11.790
" "	9.510	" "	15.400	" "	11.830
" "	9.525	" "	15.420	" "	11.870
" "	9.550	" "	15.435	" "	11.900
" "	9.560	" "	15.447	" "	15.130
" "	9.570	" "	17.700	" "	15.150
" "	9.580	" "	17.705	" "	15.155
" "	9.600	" "	17.715	" "	15.190
" "	9.625	" "	17.730	" "	15.200
" "	9.640	" "	17.740	" "	15.240
" "	9.660	" "	17.745	" "	15.270
" "	9.675	" "	17.790	" "	15.390
" "	9.690	" "	17.810	" "	15.440
" "	9.700	" "	17.840	" "	17.760
" "	9.710	" "	17.860	" "	17.780
" "	9.725	" "	17.870	" "	17.880
" "	9.735	" "	17.880	" "	21.540
" "	9.750	" "	17.890	" "	21.570
" "	9.760	" "	21.470	" "	25.950
" "	9.770	" "	21.490	Brentwood, N.Y.	9.530 WJ25V
" "	9.825	" "	21.530	" "	26.040
" "	9.915	" "	21.550	" "	9.590
" "	11.680	" "	21.615	" "	9.650
" "	11.700	" "	21.630	" "	9.670
" "	11.725	" "	21.640	" "	11.790
" "	11.730	" "	21.660	" "	11.830
" "	11.750	" "	21.675	" "	11.870
" "	11.770	" "	21.710	" "	15.210
" "	11.780	" "	21.740	" "	15.270
" "	11.790	" "	25.650	" "	15.275
" "	11.800	" "	25.670	" "	15.285
				" "	15.360
				" "	17.784

	Mc/s	Mc/s	Mc/s
U.S.A.—cont.			
Brentwood, N.Y.	17.830	Dixon, Cal.	11.900
" "	17.875	" "	15.150
" "	21.500	" "	15.230
" "	21.650	" "	15.250
" "	21.690	" "	15.290
W&W Cincinnati,		" "	17.760
Ohio	9.545	" "	17.800
" "	9.560	" "	17.830
" "	9.725	" "	21.460
" "	11.785	" "	21.500
" "	11.810	" "	21.610
" "	11.830	Schenectady, WGE0	
" "	11.850	N.Y.	9.530
" "	11.855	" "	15.330
" "	11.890	" "	17.760
" "	11.900	" "	21.590
" "	11.970		
" "	15.150	U.S.S.R.	
" "	15.165	Achkhabad, 10	
" "	15.230	Turkmenia	4.235
" "	15.240	" "	6.180
" "	15.250	" "	
" "	15.330	Alma Ata, 15	
" "	17.740	Kazak	4.625
" "	17.795	" "	5.260
" "	17.880	" "	5.900
" "	21.485	" "	6.790
" "	21.515	" "	9.250
" "	21.570	" "	9.480
" "	21.610	" "	9.625
" "	21.730	" "	10.530
K&S Delano, Cal.	6.185	Baku, 2	
" "	9.570	Azerbaidjan	4.957
" "	9.600	" "	9.840
" "	9.700	Blagoveshchensk, 1	
" "	11.710	Russia	4.956
" "	11.830	2 Erivan, Armenia	5.740
" "	11.870	" "	6.075
" "	15.130	" "	9.595
" "	15.290	" "	9.720
" "	15.315	25 Frunze, Kirghiz	4.010
" "	15.340	1 Guryev, Kazak	4.560
" "	17.770	- Kaunas,	
" "	17.850	Lithuania	6.135
" "	17.880	" "	11.950
" "	21.460	" "	15.320
" "	21.610	Khabarovsk,	
" "	21.740	20 Russia	3.900
K&S H Dixon, Cal.	6.020	" "	4.273
" "	9.515	" "	5.110
" "	9.550	" "	5.560
" "	9.590	" "	6.115
" "	11.710	" "	7.150
" "	11.740	" "	7.210
" "	11.775	" "	9.380
" "	11.870	" "	9.905
" "		" "	11.815
		Kiev, Ukraine	404.940
		" "	4.970
		" "	6.020
		" "	7.137
		" "	7.185
		" "	7.200
		" "	7.260
		" "	7.400
		" "	9.450
		" "	9.470
		" "	9.595
		" "	9.640
		" "	9.665
		" "	9.685
		" "	9.730
		" "	9.740
		" "	11.740
		" "	11.825
		" "	11.840
		" "	11.890
		" "	15.175
		" "	15.220
		" "	15.252
		" "	15.455
		" "	17.710
		" "	17.715
		" "	17.850
		Komsomolsk,	
		50 Russia	5.990
		" "	6.020
		" "	6.050
		" "	6.115
		" "	7.150
		" "	9.630
		" "	9.660
		" "	9.669
		" "	9.750
		" "	11.692
		" "	11.754
		" "	11.815
		" "	11.900
		" "	15.235
		" "	17.880
		" "	21.630
		Krasnoyarsk, -	
		Russia	5.290
		Leningrad, -	
		Russia	6.110
		" "	6.195
		" "	7.400
		" "	9.790
		" "	11.630
		Magadan, 10	
		Russia	4.995
		" "	7.270
		" "	9.498

U.S.S.R.—cont.	Mc/s	Moscow, Russia	Mc/s	Moscow, Russia	Mc/s
Moscow, Russia	3.936	Moscow, Russia	7.330	Moscow, Russia	11.800
"	5.210	"	7.340	"	11.805
"	5.230	"	7.350	"	11.825
"	5.270	"	7.360	"	11.835
"	5.455	"	7.365	"	11.840
"	5.740	"	7.370	"	11.845
"	5.905	"	7.375	"	11.860
"	5.915	"	7.385	"	11.865
"	5.930	"	7.380	"	11.870
"	5.940	"	7.440	"	11.875
"	5.960	"	9.149	"	11.890
"	5.965	"	9.420	"	11.900
"	5.975	"	9.480	"	11.905
"	5.980	"	9.490	"	11.910
"	5.995	"	9.500	"	11.925
"	6.000	"	9.510	"	11.930
"	6.030	"	9.535	"	11.940
"	6.035	"	9.545	"	11.945
"	6.040	"	9.555	"	11.960
"	6.045	"	9.559	"	11.965
"	6.050	"	9.580	"	11.975
"	6.065	"	9.585	"	11.985
"	6.075	"	9.610	"	12.000
"	6.105	"	9.620	"	12.005
"	6.120	"	9.625	"	12.020
"	6.150	"	9.650	"	12.075
"	6.165	"	9.670	"	12.100
"	6.180	"	9.675	"	12.140
"	6.200	"	9.680	"	14.860
"	6.930	"	9.690	"	15.040
"	6.975	"	9.700	"	15.045
"	6.980	"	9.715	"	15.053
"	7.095	"	9.720	"	15.060
"	7.100	"	9.745	"	15.070
"	7.105	"	9.750	"	15.080
"	7.115	"	9.760	"	15.090
"	7.125	"	9.765	"	15.100
"	7.135	"	9.775	"	15.105
"	7.140	"	9.780	"	15.110
"	7.145	"	9.800	"	15.135
"	7.150	"	9.810	"	15.150
"	7.155	"	9.850	"	15.155
"	7.170	"	9.880	"	15.160
"	7.175	"	11.570	"	15.165
"	7.215	"	11.690	"	15.180
"	7.230	"	11.705	"	15.195
"	7.235	"	11.710	"	15.205
"	7.245	"	11.715	"	15.210
"	7.265	"	11.720	"	15.230
"	7.270	"	11.730	"	15.235
"	7.280	"	11.750	"	15.240
"	7.285	"	11.755	"	15.245
"	7.290	"	11.760	"	15.250
"	7.298	"	11.770	"	15.260
"	7.310	"	11.780	"	15.265
"	7.320	"	11.785	"	15.270
"	7.325	"	11.790	"	15.275

U.S.S.R.—cont.		Mc/s	Petrozavodsk, Karelia	Mc/s	Caracas	Mc/s
Moscow,				5.065		4.923 ✓
Russia	15.290		"	6.055	"	4.972
"	"	15.300	Stalinabad, 25		"	5.029
"	"	15.305	Tadzhik	4.635	"	5.047
"	"	15.335	"	7.330	"	6.170
"	"	15.340	Tashkent, 5		"	9.640
"	"	15.355	Uzbek	6.730	Carora	3.334 ?
"	"	15.350	"	6.825	✓ Ciudad Bolivar	4.900 ✓
"	"	15.390	"	6.875	Coro	4.820
"	"	15.395	"	7.100	"	4.950
"	"	15.400	"	7.100	Cumana	4.960 ✓
"	"	15.410	Tiflis, Georgia 2	5.040	El Tigre	3.255
"	"	15.420	"	6.050	✓ Maracaibo	3.275 ✓
"	"	15.425	Ulan Ude, —		"	4.800
"	"	15.430	Russia	6.135	"	4.810
"	"	15.430	Vladivostok, 20		"	5.035
"	"	15.440	Russia	5.016	"	9.528
"	"	15.470	Yakutsk, Russia 24.534		✓ Maracay	2.240
"	"	17.700	UGANDA		"	2.440
"	"	17.740	Kampala	5.027	"	3.315
"	"	17.750	"	7.110	✓ Maturin	3.325 ✓
"	"	17.755	URUGUAY		✓ Merida	3.395 ✓
"	"	17.765	Montevideo	6.000	✓ Puerto Cabello	3.285
"	"	17.780	"	6.035	Puerto la Cruz	4.791
"	"	17.785	"	6.055	Punta Fijo	4.770
"	"	17.790	"	6.075	✓ San Cristobal	3.267 ✓
"	"	17.800	"	6.130	"	4.830
"	"	17.815	"	6.156	"	9.570
"	"	17.825	"	6.170	✓ San Felipe	4.860 ✓
"	"	17.830	"	9.516	✓ Trujillo	3.295 ✓
"	"	17.840	"	11.835	✓ Valencia	3.355
"	"	17.865	"	11.896	"	4.780
"	"	17.870	"	15.390	✓ Valera	4.841 ✓
"	"	17.875	VATICAN CITY		VIETNAM	
"	"	17.895	Vatican City	6.190	(See Indo-China)	
"	"	17.900	"	7.280	WEST INDIES,	
"	"	17.910	"	9.550	Kingston	
"	"	21.490	"	9.645	Jamaica	3.360
"	"	21.555	"	9.660	"	4.950
"	"	21.560	"	11.885	St. Georges,	
"	"	21.575	"	11.740	Grenada	3.362
"	"	21.610	"	15.120	"	5.010
"	"	21.670	"	17.840	"	5.980
"	"	21.680	"	21.515	"	15.055
Murmansk, —			"	21.740	"	17.745
Russia	7.650		VENEZUELA		"	17.805
Novosibirsk, —			✓ Barcelona	3.385	"	17.910
Russia	5.225		✓ Barquisimeto	4.850	YEMEN	
Petropavlovsk,			"	4.940	Sana'a	5.985
50 Russia	4.055		"	4.989	"	9.705
"	"	5.050	"	9.505	"	11.905
"	"	6.080	Cabimas ?	2.490	YUGOSLAVIA	
"	"	9.500	✓ Caracas	3.245	Belgrade	6.100
"	"	11.850	"	3.305	"	6.100
"	"	15.140	"	3.345	"	7.200
"	"	15.195	"	3.390	"	9.505
Petrozavodsk, 10			"	4.880	"	15.205
Karelia	4.995		"	4.890	"	15.238

U.K. Television Stations

Chan- nel	Frequency (Mc/s)		Vision e.r.p. (kW)	Pol- ar'n	
	Vision	Sound			
1	45.0	41.5	200	V	Crystal Palace, London
2	51.75	48.25	12	H	Divis, N. Ireland
			100	V	Holme Moss, Yorks.
			1-15	V	N. Hessary Tor, S. Devon B.B.C.
			1.5	H	Rosemarkie, Inverness.
			1	H	Londonderry, N. Ireland
3	56.75	53.25	0.25-1	V	Dover, Kent
			0.2	V	Brighton (Temporary)
			100	V	Kirk o'Shotts, Lanarks.
			1-10	H	Tacolneston, Norfolk
			1-32	V	Rowridge, Isle of Wight B.B.C.
4	61.75	58.25	1	H	Blaen Plwyf, Cardigan.
			100	V	Sutton Coldfield, Warwick.
			16	H	Sandale, Cumberland
			4-17	H	Meldrum, Aberdeen.
5	66.75	63.25	1	H	Jersey, Channel Islands B.B.C.
			0.01	H	Folkestone, Kent
			100	V	Wenvoe, Glamorgan
			12	H	Pontop Pike, Durham
			2.8	V	Douglas, Isle of Man
8	189.75	186.25	4	V	Orkneys
			1-2	H	Peterborough
			200	V	Lichfield, Staffs.
			7.5-100	H	Burnhope, Durham
9	194.75	191.25	100	V	Winter Hill, Lancs.
			120	V	Croydon, London
10	199.75	196.25	10-200	V	Emley Moor, Yorks.
			65-475	V	Black Hill, Lanarks.
			200	V	St. Hilary, Glamorgan
11	204.75	201.25	10-100	V	Chillerton Down, I. of Wight 1.F.4.
			10-200	H	Mendlesham, Suffolk

Where a directional aerial is used both the minimum and maximum e.r.p. are given.

Acknowledgement.—We are grateful to the B.B.C. for allowing us to check the information given in this edition against frequency measurements made at the Tatsfield Station.

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You are tuned to the 1530 Far Eastern Station

Radio ~~Amoy~~ ^{India Pakistan Ceylon}
^{Burma Thailand Indo China}
25 & 31 m

3 XMSOS IN ENGLISH DAILY 11.725

13

0910 - 11.30

I

9-69

II West, Europe, & Pacific 21.00 - 21.45 TAP4

III North America 23.15 - 24.00 TAT

- 2) Who was ^{the woman} Louis & Thair (love)
- 3) Who invented the steam engine and in what year.
- 4) What is a tidal gauge
- 5) From what bird comes the light blue feathers with black dots that hunters like to wear in their hats
- 6) What is the music played between these questions //

Burmes 13

Abdefghykinopqr

The present name of the city that was formerly called Smyrna is

A WORLD OF LISTENING AT YOUR COMMAND

585

S6BS TUNER

31.730 ?
11 800



9 band (6 Electrically band spread) with RF., FC., 2IF. Delayed amplified A.V.C. Variable selectivity. Tropicalised. Suitable for use with any high quality Amplifier

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216 8
457
198-54
202
201
214
288
298

SMOOR
SLEEF
ION

501

15
8/0

1
The Shagbark Bush