

# ANSWERS



## WORLD RADIO ATLAS, GAZETTEER AND LOG BOOK



# THE "CONCERTS" OF EUROPE

NOTE:—The wavelengths given below are the new ones allotted by the recent Lucerne Wavelength Conference, but experimental changes may be made during the early part of 1934.

Name of Station	Country	Page No. and Map Ref.	Station Information	Wavelength (metres)	Your Dial Readings
Aberdeen ...	Gt. Britain ...	6 D 1	Generally Relays Sootish Regional Prog.	222.6	
Algiers ...	Algeria ...	10 D 3	Usually announces in French. Pronounces name of station as "Alzhay"	318.8	
Ankara ...	Turkey ...	8 B 5	Turkish and French languages	1639	
Athlone ...	Irish Free State	6 C 2	Relays the programme from the Dublin Studio	531	
Barcelona Radio Club ...	Spain ...	6 E 4	Call EAJ 25. Only Sats. 8.30—9.30 p.m.	50	
Barcelona ...	Spain ...	" "	"Radio Barcelona." Man announcer. Closes down with "Buenos Noches" (Goodnight)	274	
Bari ...	Italy ...	7 H 4	Usually relays Rome programmes	283.3	
Belfast ...	Gt. Britain ...	6 C 2	Uses low power, but a new Belfast station is planned	267.4	
Belgrade ...	Yugoslavia ...	7 J 4	Name sounds like "Baograd." Clock ticks in interval—60 per minute	437.3	
Bergen ...	Norway ...	8 A 2	Announces "Bergen Her"	352.9	
Berlin ...	Germany ...	7 G 2	(See also Konigswusterhausen	356.7	
Berlunster ...	Switzerland ...	6 F 3	Announces in German. Refers to station as "Schweizerischer Landessender"	539.6	
Boden ...	Sweden ...	8 A 2	Generally relays the Stockholm programme. Is shortly to increase power	726	
Bolzano ...	Italy ...	7 G 3	Low powered station seldom heard in Britain	559.7	
Bordeaux ...	France ...	6 D 4	Frequently Relays Paris and other French stations. Announces "Bordeaux Lafayette"	278.6	
Bournemouth ...	Gt. Britain ...	6 D 2	Generally Relays London Regional...	285.7	
Brasov ...	Roumania ...	7 K 3	New low-powered station	1875	
Bratislava ...	Czecho Slovakia	7 H 3	Name pronounced as in English. Man and Woman announcers	298.8	
Breslau ...	Germany ...	7 H 2	Uses metronome sometimes in intervals. Works with Gleiwitz	315.8	
Brno ...	Czecho Slovakia	7 H 3	Pronounced "Birno" ("Dobrou Noc" means "Good Night")	325.4	
Brussels I ...	Belgium ...	6 E 2	Announces in French	483.9	
Brussels II ...	Belgium ...	" "	Announces in Flemish	321.9	
Bucharest ...	Roumania ...	7 K 4	Metronome flashes 160 ticks per minute	212.6	
Bucharest ...	Roumania ...	" "	" "	50	
Budapest I ...	Hungary ...	7 H 3	New station, name pronounced "Bodapest" Uses tuneful interval signal, nine notes, G sharp, B, A, B, G sharp, B, A, B, G sharp	549.5	
Budapest II ...	Hungary ...	" "	Low power alternative station	227.1	
Casablanca ...	N. Africa ...	10 C 3	Call CN8MC (Relays Rabat) Mons. 8—9 p.m., Tues. midnight to 1 a.m. and 8—9	48	
Constantine ...	Algeria ...	10 C 3	Call 8KR	45	
Copenhagen ...	Denmark ...	7 G 1	Relayed on long waves by Kalundborg. Closes down with Danish melody and three strokes of gong	255.1	
Cork ...	Irish Free State	6 C 2	Relays the Dublin programme	209.9	
Coruna ...	Spain ...	6 C 4	Seldom if ever heard in Britain	377.4	
Cracow ...	Poland ...	7 H 2	Announces "Hallo! Polskie Radio, Krakow" Sleigh Bells sometimes used as interval signal	219.6	
Danzig ...	Danzig, Free City ...	7 H 2	Relays the Heilsberg programme	230.2	
Daventry 5XX ...	Gt. Britain ...	6 D 2	National Programme. New station now being erected (at Droitwich), to use greatly increased power	1500	
Daventry ...	Gt. Britain ...	" "	Empire Service. Call GSA	49.59	
Daventry ...	Gt. Britain ...	" "	" " " GSB	31.55	
Daventry ...	Gt. Britain ...	" "	" " " GSC	31.3	
Daventry ...	Gt. Britain ...	" "	" " " GSD	25.53	
Daventry ...	Gt. Britain ...	" "	" " " GSE	25.28	
Daventry ...	Gt. Britain ...	" "	" " " GSF	19.82	
Daventry ...	Gt. Britain ...	" "	" " " GSG	16.83	

(At present the various Empire transmitter wavelengths are being altered experimentally).

## THE "CONCERTS" OF EUROPE, continued.

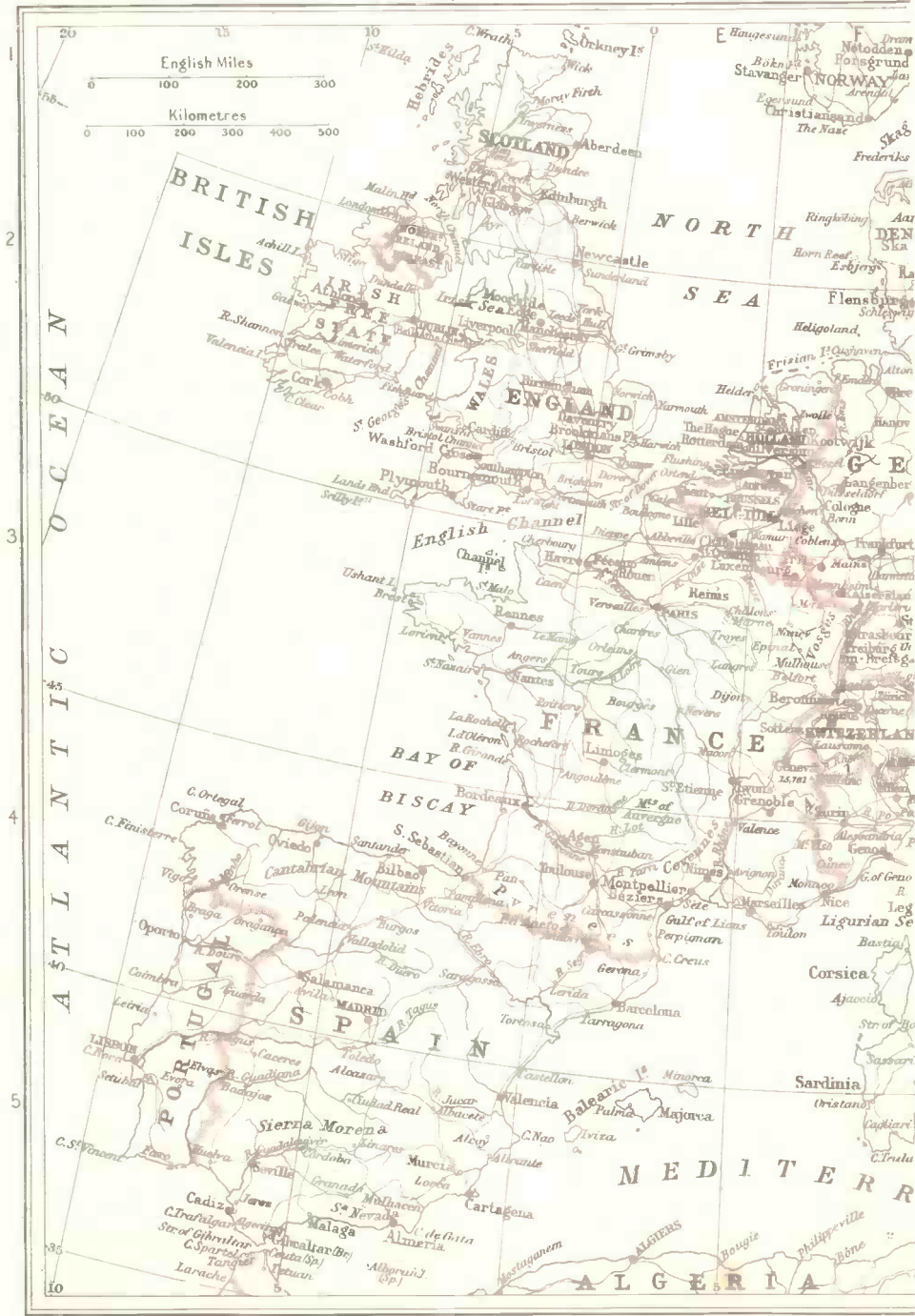
Name of Station	Country	Page No. and Map Ref.	Station Information	Wave-length (metres)	Your Dial Readings
Dnepropetrovsk	U.S.S.R.	8 B 4	Shares wavelength with Limoges France	328.6	
Dublin	Irish Free State	6 C 2	Low powered relay. See Athlone	222.6	
Eindhoven	Holland	6 F 2	Call PHI. Hours 1—3 p.m.	25.57	
Eindhoven	Holland	" "	Mon., Thurs. and Fri. 12.30—2.30 p.m. Sat. and Sun. 12.30—3 p.m.	16.88	
Falun	Sweden	—	Works on low power	276.2	
Finmark	Norway	—	Do. Neither of these stations are often heard outside their own areas	845	
Florence	Italy	7 G 4	Relays the Turin programme. Name Florence is given in Italian as "Firenze"	491.8	
Frankfurt-am-Main	Germany	6 F 2	Wavelength shared by other German stations so programme not clearly receivable	251	
Geneva	Switzerland	6 F 3	Low powered relay of Sottens. Song of nightingale as interval signal.	748	
Genoa	Italy	6 F 4	Linked with Milan and Turin (the names are pronounced in Italian as "Milano, Torino, Genova")	304.3	
Gleitwitz	Germany	7 H 2	See Breslau, with which this station is usually linked	243.7	
Gomel	U.S.S.R.	7 L 2	Run by the Soviet Government	312.8	
Goteborg	Sweden	7 G 1	Name sounds like "Zhorteborg." "Good-night" given as "Godnatt"	318.8	
Graz	Austria	7 H 3	"Halo I Radio Graz" Letter K in Morse (— —) is sometimes given in intervals; and also ticks of metronome, 200 per min.	338.6	
Grenoble	France	6 F 3	Announces as "Region des Alpes à Grenoble"	309.9	
Hamar	Norway	—	Relays Oslo	578	
Hamburg	Germany	7 G 2	Sometimes sends Morse letters HA (— —) in interval. Often strikes gong before announcing	331.9	
Heilsberg	Germany	7 J 2	East Prussian Regional station; relays Königsberg	291	
Helsinki	Finland	8 A 2	Announces "Huomio! Lahti-Helsinki"	335.2	
Hilversum	Holland	6 F 2	Exchanges programmes with Huizen—see Huizen	301.5	
Horby	Sweden	7 G 1	Relays Stockholm	265.3	
Huizen	Holland	6 F 2	Exchanges programmes with the Hilversum station, so announcements may be either "Huizen" or "Hilversum"	1345	
Innsbruck	Austria	7 G 3	New station, shortly to come into operation	578	
Jeløy	Norway	7 G 1	Call LCL. Relays Oslo	42.85	
Kalundborg	Denmark	7 G 1	Relays Copenhagen. Man and Woman announcers	1261	
Katowice	Poland	7 H 2	Pronounced "Katto-veecha" Sometimes answers letters over the microphone. Interval signal, Hammer striking anvil	395.8	
Kaunas	Lithuania	7 J 1	Usually man announces: "Allo! Lietuvos Radio Kaunas"	1639	
Kharkov I	U.S.S.R.	8 B 4	Recently erected under the Soviet Radio Plan	1345	
Kharkov II	U.S.S.R.	" "	Do. do. do.	253.2	
Kiev	U.S.S.R.	7 L 2	Soviet station of no programme value	415.5	
Klagenfurt	Austria	7 G 3	Relays the Vienna programmes	209.9	
Königsberg	Germany	7 J 2	Linked with Heilsberg and Danzig	222.6	
König wusterhausen	Germany	7 G 2	Now the National German station, or "Deutschlandsender." Frequently picks the best programme items from Berlin and provincial stations	1571	
Kosice	Czecho Slovakia	7 J 3	Announces "Hallo Kosice." Uses three languages: Slovak, German and Hungarian. Closes down with "Dobru Noc" ("Goodnight")	269.5	
Krasnodar	U.S.S.R.	8 B 4	Shares this wavelength with two other stations, viz.: Bournemouth and Scottish National	285.7	
Lahti	Finland	8 A 2	Relays Helsinki (Helsingfors). No interval signal. Man and Woman announcers	1145	

## THE "CONCERTS" OF EUROPE, continued.

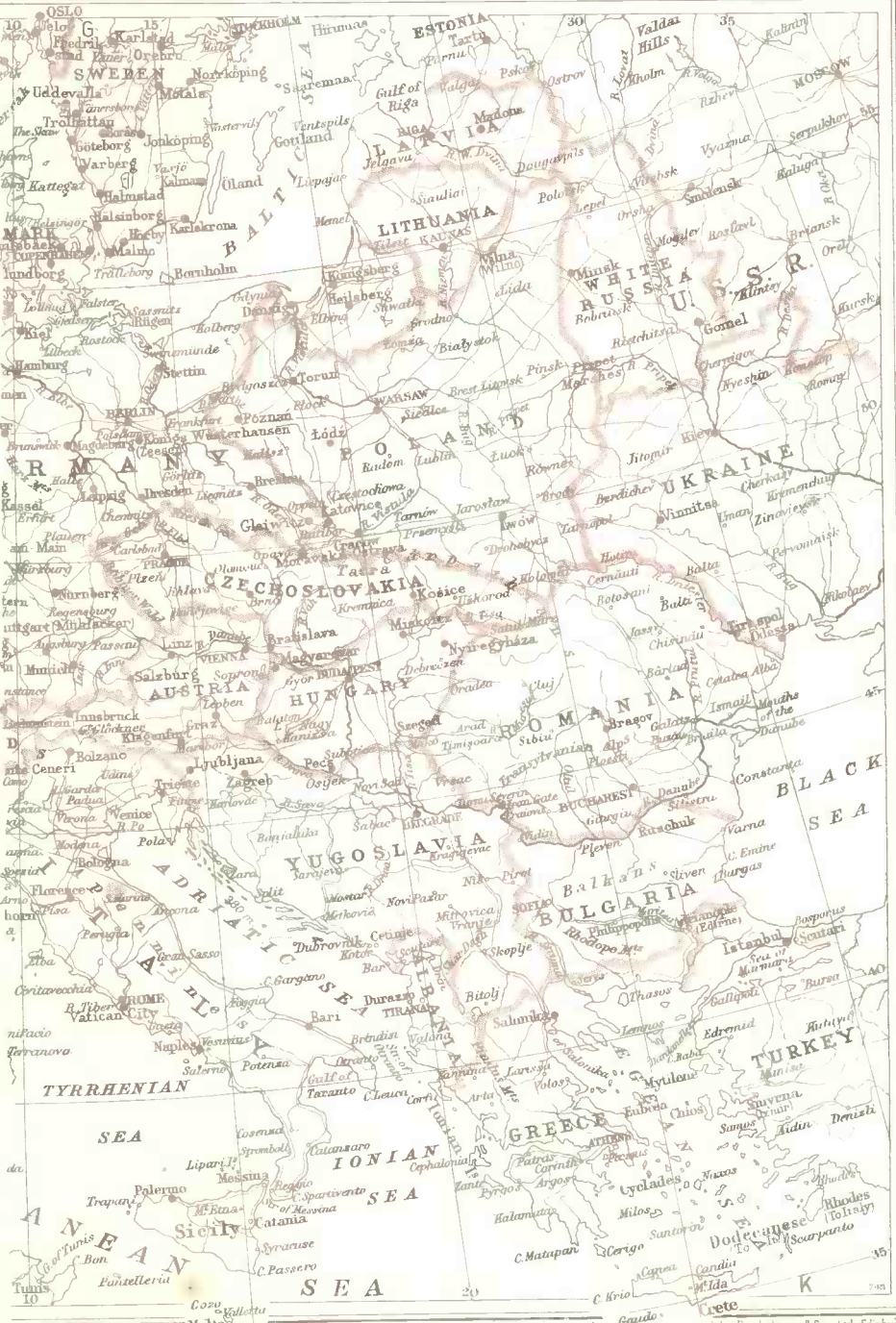
Name of Station	Country	Page No. and Map Ref.	Station Information	Wave-length (metres)	Your Dial Readings
Langenberg ...	Germany ...	6 F 2	Announces as "Westdeutscher Rundfunk"	455.9	
Leipzig ...	Germany ...	7 G 2	Sometimes uses Metronome in the intervals. Usually commences progs. at 5.15 a.m.	382.2	
Leningrad I ...	U.S.S.R. ...	8 B 3	Sometimes announces in English. Occasionally uses cuckoo interval signal	1224 288.6	
Leningrad II ...	U.S.S.R. ...	" "	Low powered Relay		
Lille ...	France ...	6 E' 2	Call "Ici Radio PTT Lille." Closes down with air played on musical box	247.3	
Limoges ...	France ...	6 E. 3	Relays Paris, Ecole Superieure	328.6	
Linz ...	Austria ...	7 G 3	Relays Vienna	231.8	
Lisbon ...	Portugal ...	6 C 5	Call CTIAA. Tues. and Fri. 9.30 p.m. to midnight	31.25	
Ljubljana ...	Yugoslavia ...	7 G 3	Man announces: "Hallo, Radio Ljubljana" Interval signal, cuckoo	569.3 222.6	
Lodz ...	Poland ...	7 H 2	Relays Warsaw		
London National	Gt. Britain ...	6 D 2	One of the Twin-wave high power stations at Brookmans Park	261.1	
London Regional	Gt. Britain ...	" "	Do. Alternative prog. for London area	342.1	
Luxembourg ...	Luxembourg ...	6 F' 3	Sponsored programmes. Man and Woman announcers	240.2	
Lwow ...	Poland ...	7 J 3	Name pronounced like "Lvoof." Uses Metronome and a clock gong. Man and woman announcers	377.4	
Lyons ...	France ...	6 E 3	Announces as "Radio Lyon" or "Ici Radio Lyon"	463	
Madona ...	Latvia ...	7 K 1	Relays Riga	514.6	
Madrid I ...	Spain ...	6 D 4	New station, not yet in action	1639	
Madrid II ...	Spain ...	" "	Fond of operatic programme. Usually closes down with the words "Hasta Manana"	293.5	
Madrid ...	Spain ...	" "	Call EAQ Daily 11 p.m.—1 a.m.	30	
Madrid ...	Spain ...	" "	Call EAR 110. Tues. and Sats. at 10.30 p.m.	43	
Magyarovar ...	Hungary ...	7 H 3	New low power relay	208.6	
Marseilles ...	France ...	6 F 4	Frequently relays Paris. Closes down: "Bonsoir, Mesdames, Mesdemoiselles, Messieurs"	400.5	
Midland Regional	Gt. Britain ...	6 D 2	Originally called 5GB. Situated at Daventry. New station to replace it now being built at Droitwich.	391.1	
Milan I ...	Italy ...	6 F 3	"Milano." See Genoa	368.6	
Milan II ...	Italy ...	" "	Known as the Vigentiono station	222.6	
Minsk ...	U.S.S.R. ...	7 K 2	Also known as "Minsk Koloditschi"	1442	
Miskolecz ...	Hungary ...	7 J 3	Usually works in conjunction with Magyarovar	208.6	
Monte Ceneri ...	Switzerland ...	6 F 3	Station for the Italian-speaking Switzerland	257.1	
Montpellier ...	France ...	6 E 4	Low powered station	224	
Moravska-Ostrava	Czecho Slovakia	7 H 3	Many languages are used, including Czech, Slovak, German and French. Closes down with "Radiojournal Moravska-Ostrava, Dobrou Noc" (Goodnight)	259.1	
Moscow I ...	U.S.S.R. ...	7 M 1	The most powerful broadcasting station in Europe. Occasional talks in English	1714	
Moscow II ...	U.S.S.R. ...	" "	Run by the Soviet Government for educational purposes	1107	
Moscow III ...	U.S.S.R. ...	" "	Do. do. do.	748	
Moscow IV ...	U.S.S.R. ...	" "	Do. do. do.	360.6	
Moscow ...	U.S.S.R. ...	" "	Call RW72	45.38	
Moscow ...	U.S.S.R. ...	" "	" RW59 (Relays Moscow Trades Union)	50.	
Motala ...	Sweden ...	7 H 1	Relays the Stockholm programme. Closes down with "Godnatt, Godnatt" (Goodnight, Goodnight)	1389	
Muhlacker ...	Germany ...	6 G 3	This was the station formerly placed just above London Regional's wavelength	522.6	
Munich ...	Germany ...	7 G 3	The name is pronounced "Munchen"	405.4	
Murmansk ...	U.S.S.R. ...	" "	New Soviet station, on rather low power	491.8	
Naples ...	Italy ...	7 G 4	Pronounces names as "Napoli." Relays the Rome programme so is generally announced as "Roma-Napoli"	271.7	
Newcastle ...	Gt. Britain ...	6 D 2	Originates own programme about one evening a week, but usually takes the North Regional	209.9	

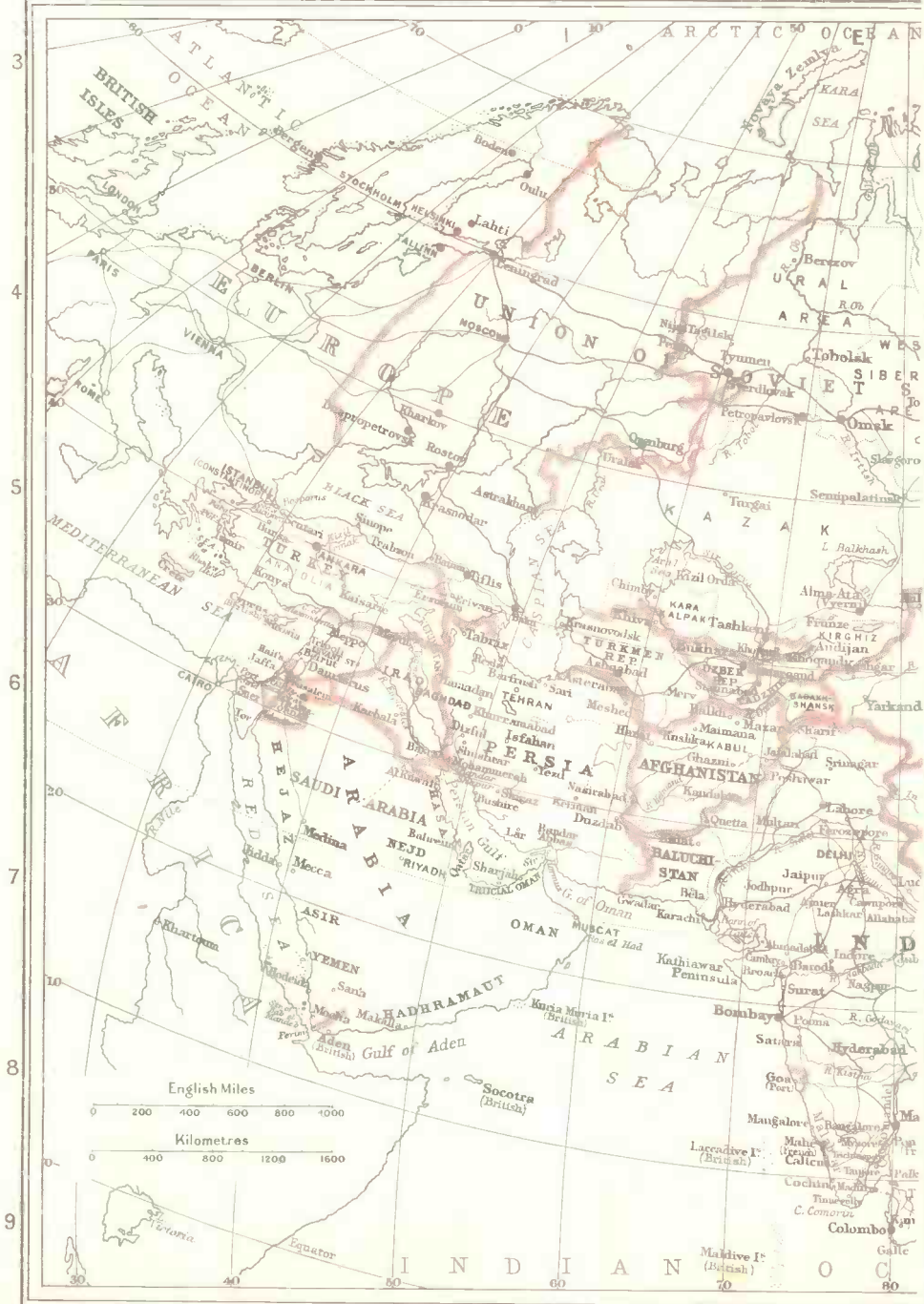
## THE "CONCERTS" OF EUROPE, continued.

Name of Station	Country	Page No. and Map. Ref.	Station Information	Wave-length (metres)	Your Dial Readings
North National	Gt. Britain ...	6 D 2	One of the Twin-wave stations at Moorside Edge, Yorks.	296.2	
North Regional	Gt. Britain ...	" "	Do. A new station to be erected at Jerusalem will share the 449.1 metre wavelength with North Regional when it comes into operation	449.1	
Nyiregyhaza ...	Hungary ...	7 J 3	Works on the same wavelength as several other Hungarian stations	208.6	
Odessa ...	U.S.S.R. ...	7 L 3	Low powered station, not receivable in Gt. Britain	309.9	
Oslo ...	Norway ...	7 G 1	Deep-voiced man announcer, says "Oslo Her" before most of the items	1186	
Ostersund ...	Sweden ...	—	Relays the Stockholm programme	765	
Oukhta ...	U.S.S.R. ...	—	Not receivable in Gt. Britain	309.9	
Oulu ...	Finland ...	8 A 2	Announces in the Swedish and Finnish languages	696	
Palermo ...	Italy ...	7 G 5	Shares its wavelength with Athlone and other stations, so not received in this country	531	
Paris ...	France ...	6 E 3	See Radio Paris	1796	
Paris ...	France ...	" "	"Poste de Telegraphes de Paris" in announcements	431.7	
Paris ...	France ...	" "	See Radio Colonial	25.63	
Paris ...	France ...	" "	Call FYB. Sends Time Signal 10.26 a.m. and 11.26 p.m. daily	28.36	
Pecs ...	Hungary ...	7 H 3	Only a low powered relay station	208.6	
Petrozavodsk	U.S.S.R. ...	—	Not received in this country. Shares wavelength with a French station	463	
Plymouth ...	Gt. Britain ...	6 D 2	Usually takes the West Regional programme, and sometimes supplies it	203.5	
Poznan ...	Poland ...	7 H 2	Only a low powered station, sharing its wavelength	345.6	
Prague I ...	Czecho Slovakia	7 G 2	Name announced as "Praha." Until recently this was the highest powered station in Europe, using a wavelength next to North Regionals	470.2	
Prague II ...	Czecho Slovakia	" "	Very restricted range, and this wavelength to be shared by other Czecho Slovakian stations	249.2	
Prague ...	Czecho Slovakia	" "	Short wave experimental station. Call: OKIMPT	58.31	
Radio Colonial Paris ...	France ...	6 E 3	Daily, 5.15—11 p.m. 3—5 a.m.	25.63	
Radio Colonial Paris ...	France ...	" "	" 5.15—11 p.m.	25.25	
Radio Colonial Paris ...	France ...	" "	" 2—5 p.m.	19.68	
Radio Nations ...	Switzerland ...	6 F 3	League of Nations stations situated at Prangins	40.3	
Radio Nations ...	Switzerland ...	" "	Do. Sats. 10.0—10.45 p.m.	38.47	
Radio Nations ...	Switzerland ...	" "	Do Sats. 10.0—10.45 p.m.	31.32	
Radio Paris ...	France ...	6 E 3	Announces " Ici Radio Paris." Closes with "Marseillaise" and "Bonsoir Mesdames, Bonsoir Mesdemoiselles, Bonsoir Messieurs"	1796	
Rennes ...	France ...	6 D 3	Man announcer. Generally relays Paris	288.6	
Reykjavik ...	Iceland ...	15 P 2	Woman announcer. Closes down with "Goda Not" (Goodnight)	1639	
Riga ...	Latvia ...	7 J 1	Women announcer. Pronounces name "Re-ga"	238.5	
Rome I ...	Italy ...	7 G 4	Generally woman announcer. "Roma-Napoli;" Closes down with "Buona Notte" (Goodnight)	420.8	
Rome II ...	Italy ...	" "	Low powered station for local alternative	238.5	
Rome ...	Italy ...	" "	Call ZRO. Relays Rome I	25.4	
Rostov on Don	U.S.S.R. ...	8 B 4	Soviet Government station	845	
Salzburg ...	Austria ...	7 G 3	Low powered relay only	231.8	
San Sebastian ...	Spain ...	6 D 4	Announces "Monte Igueldo" (site of station) and closes with "Buenos Noches" (Goodnight)	238.5	
Scottish National	Gt. Britain ...	6 D 1	Twin wave station situated at Westerglen, Near Falkirk	285.7	
Scottish Regional	Gt. Britain ...	" "		373.1	













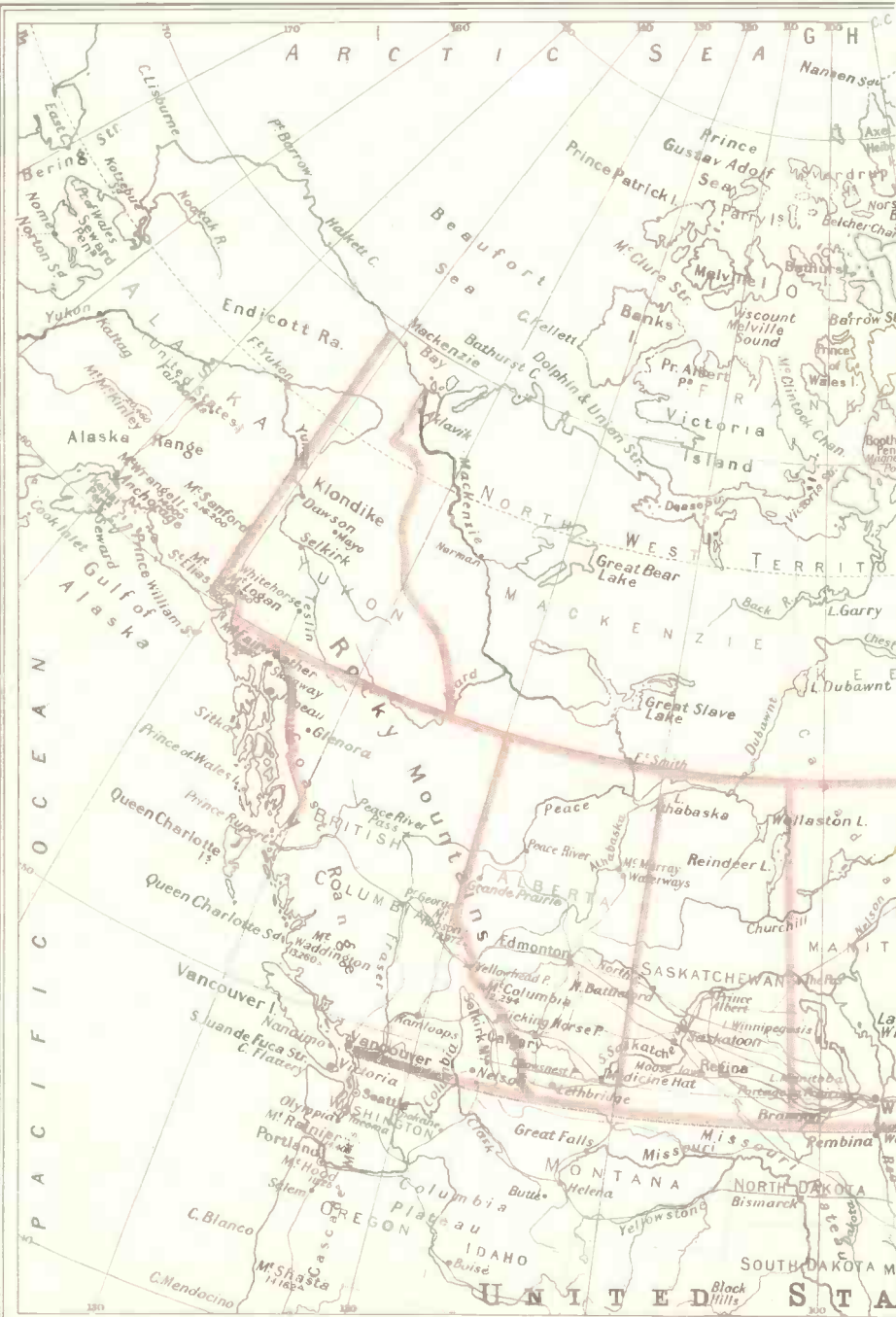


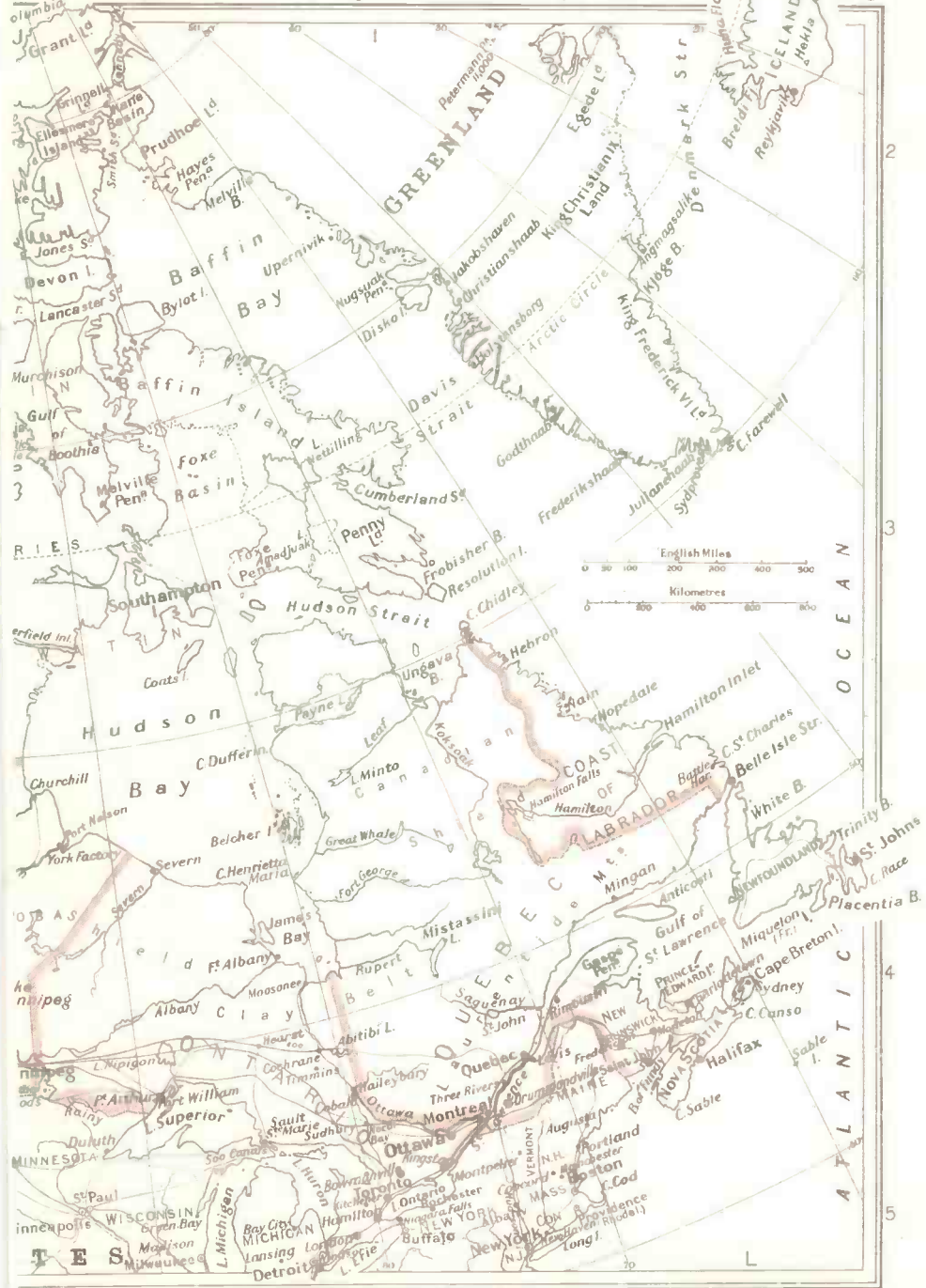


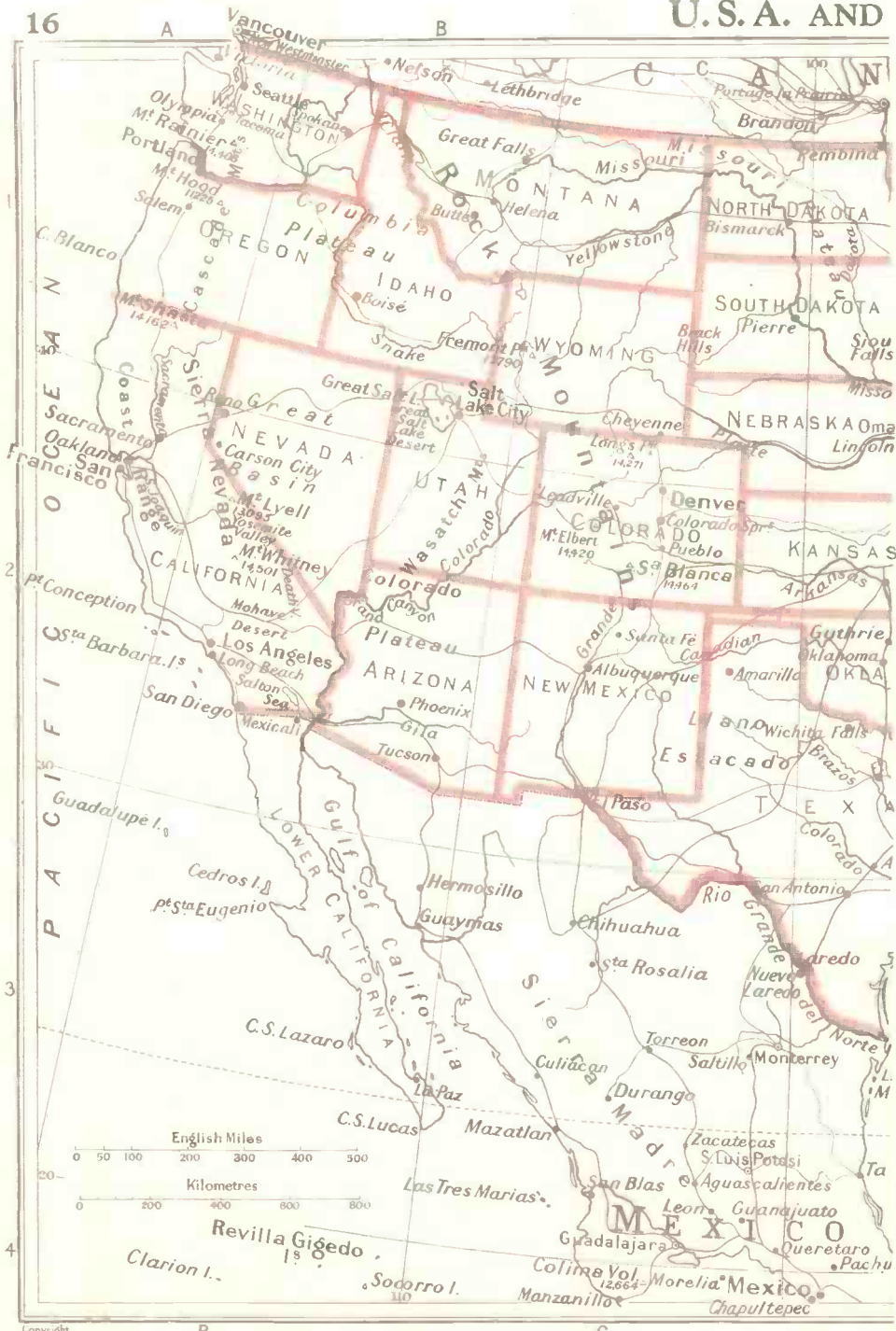


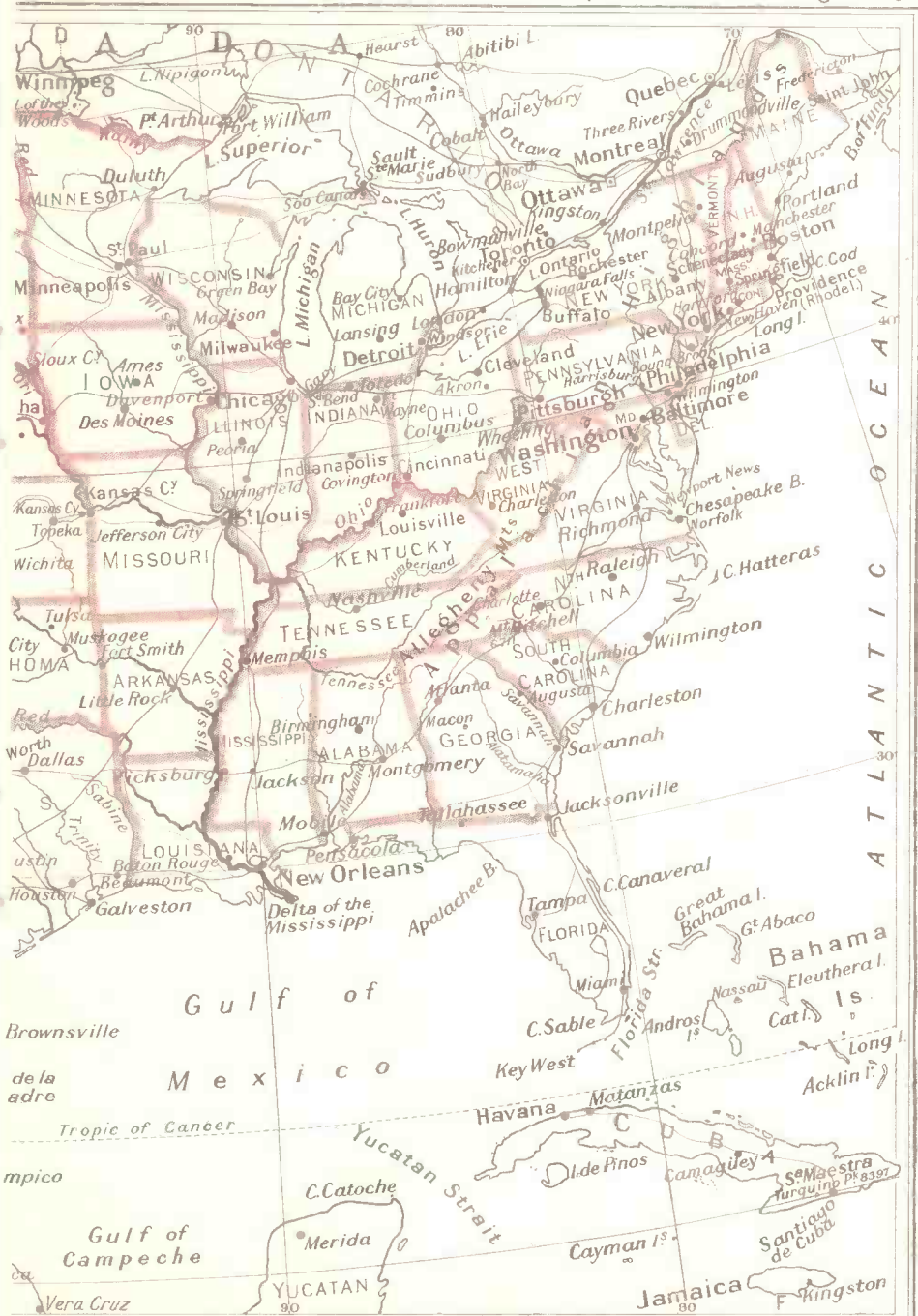






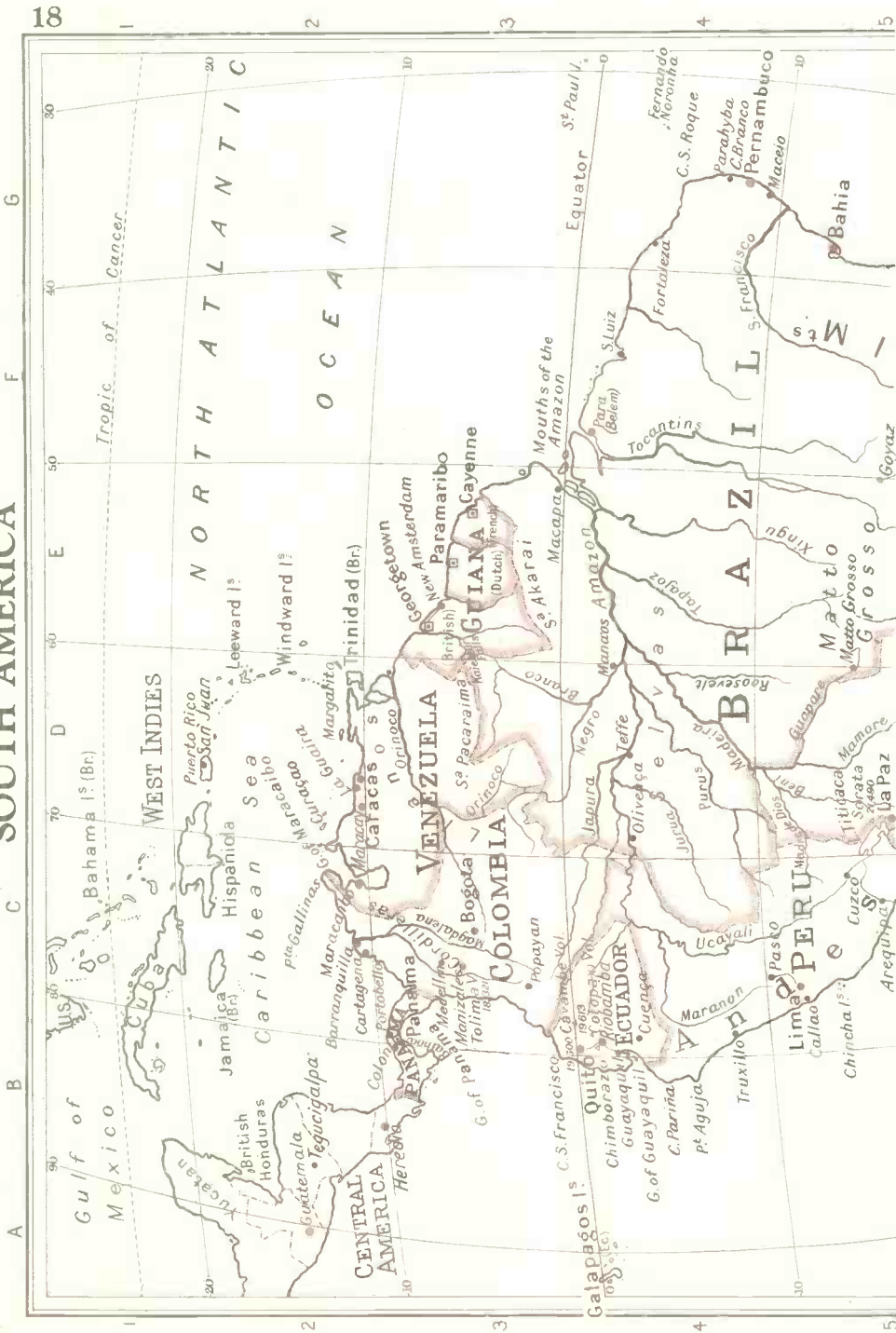








# SOUTH AMERICA







# THE "CONCERTS" OF EUROPE, continued.

Name of Station	Country	Page No. and Map Ref.	Station Information	Wavelength (metres)	Your Dial Readings
Seville ...	Spain ...	6 C 5	Pronounces Seville as "Sevil-ya" ...	410.4	
Simferopol ...	U.S.S.R. ...	7 — G 1	Soviet Government station ...	349.2	
Skamlebaek ...	Denmark ...	7 — G 1	Relays Copenhagen 6—11 p.m. ...	49.4	
Skamlebaek ...	Denmark ...	7 — L 1	Call OXY ...	31.51	
Smolensk ...	U.S.S.R. ...	7 — L 2	New Soviet station, unlikely to be received in Britain ...	824	
Sottens ...	Switzerland ...	6 F 3	Announces as "Radio Suisse Romande" Programmes from Lausanne or Geneva studios. Announces in French ...	443.1	
Stalino ...	U.S.S.R. ...	— — —	New Soviet station unlikely to be received in Britain ...	386.6	
Stockholm ...	Sweden ...	7 H 1	Usually announces "Stockholm-motala" Closes with "God-Nat" (Goodnight) ...	426.1	
Strasbourg ...	France ...	6 F 3	Announces in German and French ...	349.2	
Sundsval ...	Sweden ...	— — —	Relays to Stockholm programme ...	499.2	
Tallinn ...	Estonia ...	8 A 3	Very seldom heard in Britain ...	410.4	
Tampere ...	Finland ...	— — —	Relays the Helsinki programmes ...	569.3	
Tchernigov ...	U.S.S.R. ...	— — —	New Soviet station sharing North National's wavelength ...	296.2	
Tirapol ...	U.S.S.R. ...	7 K 3	May change wavelength with Odessa ...	280.9	
Torun ...	Poland ...	7 H 2	Shares wavelength with Genoa ...	304.3	
Toulouse ...	France ...	6 E 4	Formerly a well-received station, but now uses shared wavelength ...	386.6	
Trieste ...	Italy ...	7 G 3	Pronounces name as "Tree-es-tay" ...	245.5	
Trondheim ...	Norway ...	— — —	Relays Oslo's programme ...	476.9	
Turin ...	Italy ...	6 F 3	Nightingale's song as interval signal. Announces as "Radio Milano-Torino-Genova" ...	263.2	
Valencia ...	Spain ...	6 D 5	Announces "Radio Valencia" but uses only low power, so seldom heard ...	352.9	
Vatican City ...	Italy ...	7 G 4	Daily 7—7.15 p.m. and Sundays 10—10.30 a.m. ...	50.26	
Vatican City ...	Italy ...	7 — —	Daily 10—10.15 a.m. ...	19.84	
Vienna ...	Austria ...	7 H 3	Pronounces name "Radio Veen." Sometimes uses fast-ticking metronome in intervals ...	506.8	
Vienna Experimental ...	Austria ...	11 11	Tues. and Thurs. at intervals from 1.30 to 9.0 p.m. ...	49.4	
Viiipuri ...	Finland ...	— — —	Relays Helsinki programme ...	403.5	
Vinnitsa ...	U.S.S.R. ...	7 K 3	Only a low powered station ...	274	
Voroneie ...	U.S.S.R. ...	— — —	Low powered station, shares wavelength with Boden ...	726	
Warsaw I ...	Poland ...	7 J 2	Announces name as "Varshova." Clock gong in intervals ...	1304	
Warsaw II ...	Poland ...	11 11	Low powered station not heard in this country ...	216.8	
West National ...	Gt. Britain ...	6 D 2	Situated at Watchet, Somerset ...	261.1	
West Regional ...	Gt. Britain ...	11 11	Do. Programmes from Cardiff, Bristol, Plymouth, etc. ...	307.1	
Wilno ...	Poland ...	7 K 2	Uses trumpet (3 blasts) as interval signal ...	559.7	
Zagreb ...	Yugoslavia ...	7 H 3	Metronome ticks in intervals ...	276.2	
Zeesen ...	Germany ...	7 G 2	Usually works 10 p.m.—2.15 a.m. ...	31.38	
Zeesen ...	Germany ...	11 11	3—11 p.m. daily ...	25.51	
Zeesen ...	Germany ...	11 11	1.55—10.30 p.m. daily ...	19.73	
Zeesen ...	Germany ...	11 11	Call DJE. Irregular hours of working ...	16.89	

# THE BROADCASTS OF THE WORLD

## A LIST OF THE PRINCIPAL STATIONS OUTSIDE EUROPE

Name of Station	Country	Page No. and Map Ref.	Time compared with G.M.T.	Wave-length in Metres	Your own Dial Readings
Adelaide ...	Australia ...	12 E 3	9½ hours fast	411	
Agronomia ...	Uruguay ...	—	3½ hours slow	411	
Albury ...	Australia ...	13 D 4	10 hours fast	227	
Alma-Ata ...	U.S.S.R. ...	8 F 4	2 hours fast	967	
Amparo ...	Brazil ...	19 F 6	3 hours slow	230	
Anchorage ...	Alaska ...	—	9 hours slow	244.2	
Apia ...	Samoa ...	—	11½ hours slow	319	
Auckland ...	New Zealand ...	13 G 4	11½ hours fast	333	
Bahia ...	Brazil ...	18 G 5	3 hours slow	350	
Baku ...	U.S.S.R. ...	8 C 4	2 hours fast	1260	
Ballarat ...	Australia ...	13 D 4	10 hours fast	230	
Bandoeng ...	Java ...	—	8 hours fast	58.03	
Bangkok ...	Siam ...	9 J 7	7 hours fast	350	
Belem ...	Brazil ...	18 F 4	3 hours slow	220	
Belle Isle ...	Newfoundland ...	15 M 3	3½ hours slow	335	
Bendigo ...	Australia ...	13 D 4	10 hours fast	306	
Bogota ...	Colombia ...	18 C 3	5 hours slow	48.95	
"	"	"	"	48.6	
"	"	"	"	48.00	
Boise ...	U.S.A. ...	16 B 1	8 hours slow	240	
Bombay ...	India ...	8 F 7	5½ hours fast	357.1	
Boston ...	U.S.A. ...	17 F 1	5 hours slow	49.67	
"	"	"	"	25.45	
"	"	"	"	19.67	
Bound Brook ...	U.S.A. ...	17 F 1	5 hours slow	395	
"	"	"	"	16.87	
"	"	"	"	46.69	
"	"	"	"	49.18	
Bowmanville ...	Canada ...	15 K 4	5 hours slow	435	
"	"	"	"	330	
"	"	"	"	49.22	
Brandon ...	Canada ...	14 H 4	7 hours slow	557	
Brisbane ...	Australia ...	13 E 3	10 hours fast	395	
Buenos Aires ...	Argentina ...	19 E 7	4 hours slow	361.4	
Calcutta ...	India ...	9 G 6	5½ hours fast	370.4	
"	"	"	"	49.1	
Calgary ...	Canada ...	14 F 3	8 hours slow	291.2	
Cape Town ...	South Africa ...	11 E10	2 hours fast	371	
Caracas ...	Venezuela ...	18 D 2	4½ hours slow	49.08	
"	"	"	"	48.78	
"	"	"	"	31.55	
Centenario ...	Uruguay ...	—	3½ hours slow	240	
Charlottetown ...	Canada ...	15 L 4	4 hours slow	517	
Chatham ...	Canada ...	—	5 hours slow	248	
Chekiang ...	China ...	—	8 hours fast	307	
Chicago ...	U.S.A. ...	17 E 1	6 hours slow	293.9	
"	"	"	"	389.4	
"	"	"	"	344.6	
"	"	"	"	49.34	
"	"	"	"	49.18	
Chilliwack ...	Canada ...	—	8 hours slow	214	
Christchurch ...	New Zealand ...	13 G 5	11½ hours fast	306	
Ciego ...	Cuba ...	—	5 hours slow	235	
Cienfuegos ...	Cuba ...	—	5 hours slow	200	
Cincinnati ...	U.S.A. ...	17 E 2	6 hours slow	428.6	
"	"	"	"	49.5	
Cleveland ...	U.S.A. ...	17 E 1	5 hours slow	280.2	
Cobalt ...	Canada ...	15 K 4	5 hours slow	248	
Colombo ...	Ceylon ...	8 F 9	5½ hours fast	428.6	
Colonia ...	Uruguay ...	19 E 7	3½ hours slow	232	
Curitiba ...	Brazil ...	19 F 6	3 hours slow	340	
Dairen ...	Japan ...	9 L 5	9 hours fast	395	
Dallas ...	U.S.A. ...	17 D 2	6 hours slow	288	
"	"	"	"	374.8	

## BROADCASTS OF THE WORLD, continued.

Name of Station	Country	Page No. and Map Ref.	Time compared with G.M.T.	Wave- length in Metres	Your own Dial Readings
Dannevirke ...	New Zealand ...	—	11½ hours fast	273	
Denver ...	U.S.A. ...	16 C 2	7 hours slow	361.2	
Dunedin ...	New Zealand ...	13 G 5	11½ hours fast	463	
Durban ...	South Africa ...	11 G 9	2 hours fast	415	
Edmonton ...	Canada ...	14 F 3	7 hours slow	517	
Eketahuna ...	New Zealand ...	—	11½ hours fast	247	
Estacion Oficial	Uruguay ...	—	3½ hours slow	462	
Fada ...	Uruguay ...	—	3½ hours slow	309	
Fleming ...	Canada ...	—	7 hours slow	500	
Fort Worth ...	U.S.A. ...	—	6 hours slow	374.8	
Fredricton ...	Canada ...	15 L 4	5 hours slow	248	
Fukuoka ...	Japan ...	—	9 hours fast	411	
Funchal ...	Madeira ...	10 B 3	1 hour slow	26.83	
Geelong ...	Australia ...	13 D 4	10 hours fast	214	
Gisborne ...	New Zealand ...	13 G 4	11½ hours fast	260	
Gomel ...	U.S.S.R. ...	7 L 2	2 hours fast	483	
Grand Island ...	U.S.A. ...	—	5 hours slow	288	
Greymouth ...	New Zealand ...	13 G 5	11½ hours fast	366	
Guatemala City	S. America ...	18 A 2	6 hours slow	45	
Gunnedah ...	Australia ...	13 E 4	10 hours fast	225	
Halifax ...	Canada ...	15 L 4	4 hours slow	330	
"	"	"	"	49.1	
Hamilton ...	Canada ...	15 K 4	5 hours slow	341	
Hamilton ...	New Zealand ...	—	11½ hours fast	476	
Harbin ...	China ...	9 L 4	8 hours fast	445	
Hastings ...	New Zealand ...	—	11½ hours fast	225	
Havana ...	Cuba ...	17 E 3	5 hours slow	500	
"	"	"	"	315	
Hiroshima ...	Japan ...	9 M 5	9 hours fast	353	
Hobart ...	Australia ...	13 D 5	10 hours fast	517	
Honolulu ...	U.S.A. ...	—	10 hours slow	319	
Hong Kong ...	China ...	9 K 6	8 hours fast	355	
Imeni Popova ...	U.S.S.R. ...	—	2 hours fast	1115	
Invercargill ...	New Zealand ...	13 F 5	11½ hours fast	258	
Iroquois Falls ...	Canada ...	—	5 hours slow	500	
Johannesburg ...	South Africa ...	11 F 9	2 hours fast	447.5	
"	"	"	"	49	
Kamloops ...	Canada ...	14 E 3	8 hours slow	268	
Kanazawa ...	Japan ...	9 M 5	9 hours fast	423	
Ketchikan ...	Alaska ...	—	8 hours slow	333	
Khabarovsk ...	U.S.S.R. ...	9 M 4	2 hours fast	93.7	
"	"	"	"	285	
"	"	"	"	70.2	
Kingston ...	Canada ...	15 K 4	5 hours slow	268	
Kuala Lumpur	Federated Malay States	9 J 8	7 hours fast	48.9	
Kumamoto ...	Japan ...	—	9 hours fast	380	
Lahore ...	India ...	8 F 5	5½ hours fast	340	
La Paz ...	Bolivia ...	18 D 5	4 hrs. 32 mins. slow	49.3	
Launceston ...	Australia ...	13 D 5	10 hours fast	1080	
"	"	"	"	1100	
Lethbridge ...	Canada ...	14 F 4	8 hours slow	268	
Lima ...	Peru ...	18 C 5	5 hours slow	380	
London ...	Canada ...	15 J 4	5 hours slow	330	
"	"	"	"	62.56	
"	"	"	"	46.67	
Los Angeles ...	U.S.A. ...	16 B 2	8 hours slow	468.5	
Los Pinos ...	Cuba ...	—	5 hours slow	213	
Louisville ...	U.S.A. ...	17 E 2	6 hours slow	365.6	
Madras ...	India ...	8 G 7	5½ hours fast	390	
Manilla ...	Phillipine Is.	9 L 7	8 hours fast	485	
Manizales ...	Colombia ...	18 C 3	4 hours 56 mins. slow	41.9	
Manurewa ...	New Zealand ...	—	11½ hours fast	247	
Maracay ...	Venezuela ...	18 D 2	1½ hours slow	48.95	
Martston ...	New Zealand ...	—	11½ hours fast	254	
Matanzas ...	Cuba ...	17 E 3	5 hours slow	307	

## BROADCASTS OF THE WORLD, continued.

Name of Station	Country	Page No. and Map Ref.	Time compared with G.M.T.	Wave- length in Metres	Your own Dial Readings
Melbourne ...	Australia ...	13	D 4	10 hours fast	484
"	"	"	"	"	375
"	"	"	"	"	31.55
Merida ...	Mexico ...	17	E 3	6 hours slow	547
Mexico City ...	Mexico ...	16	D 4	7 hours slow	548
"	"	"	"	"	476
"	"	"	"	"	450
"	"	"	"	"	349
"	"	"	"	"	248
Midland ...	Canada ...	"	"	5 hours slow	268
Milan ...	Uruguay ...	—	—	3½ hours slow	212
Moncton ...	Canada ...	15	L 4	4 hours slow	322
Monte Carlo ...	Uruguay ...	—	—	3½ hours slow	322
Monte Video ...	Uruguay ...	19	E 7	3½ hours slow	231
"	"	"	"	"	309
"	"	"	"	"	411
"	"	"	"	"	462
Montreal ...	Canada ...	15	K 4	5 hours slow	411
"	"	"	"	"	49.96
Moosejaw ...	Canada ...	14	G 3	7 hours slow	500
Moss Vale ...	Australia ...	13	E 4	10 hours fast	245
"	"	"	"	"	205
Mukden ...	Manchukuo ...	9	L 4	8 hours fast	410
Nacional ...	Uruguay ...	—	—	3½ hours slow	265
Nagoya ...	Japan ...	—	—	9 hours fast	370.3
Nairobi ...	Kenya Colony	11	G 7	2 hours fast	400
"	"	"	"	"	49.5
Napier ...	New Zealand ...	13	G 4	11½ hours fast	238
Nashville, Tenn.	U.S.A. ...	17	E 2	6 hours slow	461.4
Newcastle ...	Australia ...	13	E 4	10 hours fast	270
New Plymouth ...	New Zealand ...	13	G 4	11½ hours fast	243
New York ...	U.S.A. ...	17	F 1	5 hours slow	454.3
"	"	"	"	"	394.5
"	"	"	"	"	272.6
Okayama ...	Japan ...	—	—	9 hours fast	429
Omsk ...	U.S.S.R. ...	8	F 3	2 hours fast	636
Osaka ...	Japan ...	9	M 5	9 hours fast	400
Ottawa ...	Canada ...	15	K 4	5 hours slow	500
"	"	"	"	"	337
Palmerston North	New Zealand ...	"	—	11½ hours fast	285
"	"	"	"	"	267
Peiping ...	China ...	9	K 5	8 hours fast	267
Perth ...	Australia ...	12	A 4	8 hours fast	215
Philadelphia ...	U.S.A. ...	17	F 1	5 hours slow	435
"	"	"	"	"	256.3
"	"	"	"	"	31.28
"	"	"	"	"	49.5
Pilot Butte ...	Canada ...	"	—	7 hours slow	312
Pittsburgh ...	U.S.A. ...	17	F 1	5 hours slow	305.9
"	"	"	"	"	13.93
"	"	"	"	"	19.72
"	"	"	"	"	25.27
"	"	"	"	"	48.86
"	"	"	"	"	238
Popelka ...	Uruguay ...	—	—	3½ hours slow	238
Porto Alegre ...	Brazil ...	19	E 6	3 hours slow	275
Prescott ...	Canada ...	—	—	5 hours slow	297
Preston ...	Canada ...	—	—	5 hours slow	248
Pretoria ...	South Africa ...	11	F 9	2 hours fast	315
Quebec ...	Canada ...	15	K 4	5 hours slow	341
Radio Electrica	Uruguay ...	—	—	3½ hours slow	353
Rangoon ...	Burma ...	9	H 7	6½ hours fast	350
Regina ...	Canada ...	14	G 3	7 hours slow	312.3
Ribeirao Preto ...	Brazil ...	19	E 6	3 hours slow	260
Richmond, Va.	U.S.A. ...	17	F 2	5 hours slow	270.1
Rio de Janeiro ...	Brazil ...	19	F 6	3 hours slow	400
"	"	"	"	"	360
"	"	"	"	"	320
"	"	"	"	"	260
"	"	"	"	"	220
Saigon ...	Indo China ...	9	J 7	8 hours fast	570
St. Denis ...	Reunion ...	—	—	4 hours fast	500
St. John ...	Canada ...	15	L 4	4 hours slow	337
"	"	"	"	"	49.26



# BROADCASTS OF THE WORLD, continued.

Name of Station	Country	Page No. and Map Ref.	Time compared with G.M.T.	Wave- length in Metres	Your own Dial Readings
St. Johns ...	Newfoundland	15	M 4	3½ hours slow	545 444
St. Louis, Mo. ...	U.S.A. ...	17	D 2	6 hours slow	275.1
St. Paul, Minn. ...	U.S.A. ...	17	D 1	6 hours slow	205.4
Saladeng ...	Siam ...	...	...	7 hours fast	320
Samarkand ...	U.S.S.R. ...	8	E 5	2 hours fast	875
San Antonio, Tex. ...	U.S.A. ...	16	D 3	7 hours slow	252
San Francisco ...	U.S.A. ...	16	A 2	8 hours slow	440.9 379.5
San Juan ...	Porto Rico ...	18	D 2	4 hours slow	337
Santiago de Cuba ...	Cuba ...	17	F 4	5 hours slow	290 273
"	"	"	"	"	255
"	"	"	"	"	240
"	"	"	"	"	227
Santos ...	Brazil ...	19	F 6	3 hours slow	300
Sao Paulo ...	Brazil ...	19	F 6	3 hours slow	400 350
"	"	"	"	"	320
"	"	"	"	"	295
Saskatoon ...	Canada ...	14	G 3	7 hours slow	330
Schenectady, New York ...	U.S.A. ...	17	F 1	5 hours slow	379.5 19.56
"	"	"	"	"	31.48
Seattle ...	U.S.A. ...	16	A 1	8 hours slow	309.1
Sendai ...	Japan ...	...	...	9 hours fast	394.7
Shanghai ...	China ...	9	L 5	8 hours fast	235.5
Spokane ...	U.S.A. ...	16	B 1	8 hours slow	204
Springfield, Mass. ...	U.S.A. ...	17	F 1	5 hours slow	302.8 31.35
Sydney ...	Canada ...	...	...	4 hours slow	341
Sydney ...	Australia ...	13	E 4	10 hours fast	451 351
"	"	"	"	"	316
"	"	"	"	"	292
"	"	"	"	"	280
"	"	"	"	"	266
"	"	"	"	"	31.28
Tacubaya ...	Mexico ...	...	...	7 hours slow	600 500
Tananarive ...	Madagascar ...	11	H 8	3 hours fast	52.7
Tashkent ...	U.S.S.R. ...	8	E 4	2 hours fast	1170 712
Teneriffe ...	Canary Islands ...	10	B 4	Same as Greenwich	41.6
Tientsin ...	China ...	9	K 5	8 hours fast	480 300
"	"	"	"	"	345
Tokyo ...	Japan ...	9	M 5	9 hours fast	294
Toowoomba ...	Australia ...	13	E 3	10 hours fast	312
Toronto ...	Canada ...	15	K 4	5 hours slow	434.7
Trafalgar ...	Australia ...	13	D 4	10 hours fast	234
Uruguay ...	Uruguay ...	...	...	3½ hours slow	285
Vancouver ...	Canada ...	14	E 4	8 hours slow	411 291
"	"	"	"	"	49.43
Verkhneudinsk ...	U.S.S.R. ...	9	J 3	2 hours fast	857
Victoria ...	Canada ...	14	E 4	8 hours slow	476
Victoria Peak ...	Hong Kong ...	9	K 6	8 hours fast	355
Vladivostok ...	U.S.S.R. ...	9	M 4	2 hours fast	472 413
"	"	"	"	"	366
Wairoa ...	New Zealand ...	...	...	11½ hours fast	500
Wanganui ...	New Zealand ...	...	...	11½ hours fast	316
Washington, D.C. ...	U.S.A. ...	17	F 2	5 hours slow	297
Waterloo ...	Canada ...	...	...	5 hours slow	49.02
Wayne ...	U.S.A. ...	17	E 1	6 hours slow	25.36
Wellington ...	New Zealand ...	13	G 5	11½ hours fast	420
Windsor ...	Canada ...	15	J 4	6 hours slow	555.5
Winnipeg ...	Canada ...	14	H 3	6 hours slow	329.6 25.6
Yorkton ...	Canada ...	"	"	7 hours slow	476
Zion ...	U.S.A. ...	...	...	6 hours slow	278