

World-Radio

THE BBC FOREIGN PROGRAMME JOURNAL ★ EVERY FRIDAY

3^D

Programmes for May 28—June 3

**Spain: Broad-
casting Past and
Future**

**Holland: Sub-
scription System**

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"S'language"**

**S.-W. Receiving
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MLLE. ROSITA SERRANO, the Chilean cabaret singer, who has had a spectacular success on the Continent, and now broadcasts regularly from the German stations. Deutschlandsender will transmit a programme of her songs on Saturday, June 3, at 3.15 p.m.

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

kc/s	m.	kW	Station	kc/s	m.	kW	Station	kc/s	m.	kW	Station
Band No. 1. 150-300 kc/s.				731	410.4	38	Turi (Estonia)	1149	261.1	40	NORTH NATIONAL
152	1973.5	5	Istanbul (Turkey)	740	405.4	100	Munich (Germany)			50	SCOTTISH NATIONAL
153	1961	7	Kaunas (Lithuania)	749	400.5	100	Marseilles (PTT) (France)	1158	259.1	10	Kassa (Hungary)
160	1875	120	Hilversum (No. 1) (Holland)			1	Pori (Finland)			1.5	Moravská-Ostrava (Cz.-Slov.)
			(10 kW only until 7.40 B.S.T.)	758	395.8	10	Katowice (Poland)			1.5	Prešov (Czecho-Slovakia)
166	1807	130	Radio-Romania (Romania)	767	391.1	60	BURGHEAD	1167	257.1	15	Monte Ceneri (Switzerland)
		150	Lahti (Finland)			70	SCOTTISH REGIONAL	1176	255.1	10	Copenhagen (Denmark)
172	1744	500	Moscow (No. 1) (U.S.S.R.)			0.25	Sortavala (Finland)	1185	253.2	60	Nice-Côte d'Azur (France)
182	1648	80	Radio-Paris (France)	776	386.6	10	Stalino (U.S.S.R.)			0.5	Cassel (Germany)
183	1639	120	Ankara (Turkey)			120	Toulouse (PTT) (France)	1195	251	2	Coblenz, Trier (Germany)
187.5	1600	20	Irkutsk (U.S.S.R.)	785	382.2	120	Leipzig (Germany)			25	Frankfurt (Germany)
191	1571	60	Deutschlandsender (Germany)	795	377.4	7.5	Barcelona (EAJ1) (Spain)			5	Freiburg-im-Ereisgau (Ger.)
200	1500	150	DROITWICH			50	Lwów (Poland)	1204	249.2	5	Troppau (Germany)
208	1442	35	Minsk (U.S.S.R.)	804	373.1	5	PENMON (Anglesey)	1213	247.3	60	Lille (Radio PTT Nord) (France)
		100	Reykjavik (Iceland)			70	WELSH REGIONAL	1222	245.5	2	Nürnberg (Germany)
216	1389	150	Motala (Sweden)	814	368.6	50	Milan (No. 1) (Italy)			60	Rome (No. 2) (Italy)
217.5	1379	100	Novosibirsk (U.S.S.R.)	823	364.5	12	Bucharest (Romania)	1231	243.7	5	Gleiwitz, Görlitz (Germany)
224	1339	120	Warsaw (No. 1) (Poland)			35	Kiev (No. 2) (U.S.S.R.)	1235	242.9	1	Cork (Eire)
232	1293	150	Luxembourg			0.4	Rueil-Malmaison (Radio 37) (France)	1249	240.2	17	Saarbrücken (Germany)
		100	Moscow (No. 2) (U.S.S.R.)	832	360.6	20	Christiansand (Norway)			15	Florence (No. 2) (Italy)
240	1250	60	Kalundborg (Denmark)			20	Trøndelag (Norway)	1258	238.5	15	Riga (Latvia)
248	1209.6	100	Kiev (No. 1) (U.S.S.R.)			100	Berlin (Germany)			20	Burgos (Spain)
256.4	1170	25	Tashkent (U.S.S.R.)	841	356.7	100	Stavanger (Norway)	1267	236.8	2	Nürnberg (Germany)
260	1153.8	20	Bergen (Askøi) (Norway)			1	Porsgrund (Norway)	1276	235.1	1	Fredrikstad (Norway)
		60	Oslo (Norway)	850	352.9	100	Sofia (Bulgaria)			2	Varna (Bulgaria)
271	1107	100	Leningrad (No. 1) (U.S.S.R.)			..	Saragossa (Spain)	1285	233.5	5	ABERDEEN
282	1064	10	Tromsø (Norway)			3	Valencia (Spain)			0.25	Dresden (Germany)
283	1060	35	Tiflis (U.S.S.R.)	859	349.2	10	Simferopol (U.S.S.R.)	1286	233.2	1	San Sebastian (Spain)
Band No. 2. 300-500 kc/s.						100	Strasbourg (France)	1294	231.8	5	Klagenfurt (Germany)
340	882.3	20	Saratov (U.S.S.R.)	868	345.6	50	Poznań (Poland)			5	Vorarlberg (Germany)
347	864.6	10	Finnmark (Norway)			..	Tunis (N. Africa)	1303	230.2	0.5	Danzig (Danzig Free City)
350	857.1	10	Archangel (U.S.S.R.)	877	342.1	70	LONDON REGIONAL			10	Naples (No. 1) (Italy)
355	845.1	1	Bergen (Local) (Norway)	886	338.6	15	Graz (Germany)	1312	228.7	0.25	Karlstad, Norrköping, Trollhättan (Sweden)
359.5	834.5	18	Budapest (No. 2) (Hungary)			15	Linz (Germany)			2.5	Malmö (Sweden)
375	800	40	Sverdlovsk (U.S.S.R.)	895	335.2	10	Helsinki (Finland)	1321	227.1	1.25	Magyaróvár (Hungary)
392	765	30	Banská-Bystrica (Cz.-Slov.)			1.5	Limoges (PTT) (France)			27	Radio-Méditerranée (France)
			(Power 15 kW after 7 p.m.)	904	331.9	100	Hamburg (Germany)			2	Bremen, Flensburg, Hanover, Stettin (Germany)
395	759	10	Luleå (Sweden)			10	Dniepropetrovsk (U.S.S.R.)	1330	225.6	0.5	Magdeburg (Germany)
		20	Rostov-on-Don (U.S.S.R.)	913	328.6	60	Toulouse (Radio - Toulouse) (France)			2	Łódź (Poland)
401	748	1.3	Geneva (Switzerland)			32	Brno (Czecho-Slovakia)	1339	224	1	Montpellier (PTT) (France)
413.5	726	10	Ostersund (Sweden)	922	325.4	15	Brussels (No. 2) (Belgium)			0.5	Cairo (No. 2) (Egypt)
		10	Voronezh (U.S.S.R.)	932	321.9	12	Algiers (North Africa)			0.5	Dublin (Eire)
431	696	10	Oulu (Uleaborg) (Finland)	941	318.8	10	Göteborg (Sweden)	1348	222.6	2	L'Île de France (France)
Band No. 3. 500-1,500 kc/s.				950	315.8	100	Breslau (Germany)			1.5	Königsberg (No. 2) (Germany)
512	586	0.5	Tartu (Estonia)	959	312.8	60	Poste Parisien (France)			0.15	Rjukan (Norway)
519	578	0.7	Hamar (Norway)			1.5	Agen (France)			2	Salzburg (Germany)
		1	Innsbruck (Germany)	968	309.9	5	Madrid (EAJ7) (Spain)			0.7	Tampere (Finland)
520	576	50	Baranowice (Poland)			10	Odessa (U.S.S.R.)			1	Ancona, Bari (No. 2) (Italy)
527	569.3	6.3	Ljubljana (Yugoslavia)	971	309	2	Montpellier (France)			5	Genoa (No. 2) (Italy)
		10	Viipuri (Finland)	977	307.1	100	NORTHERN IRELAND REGIONAL	1357	221.1	4	Milan (No. 2) (Italy)
536	559.7	10	Bolzano (Italy)			50	Bologna (Radio - Marconi) (Italy)			0.25	Notodden (Norway)
		50	Wilno (Poland)	986	304.3	24	Torun (Poland)			1	Rome (No. 3) (Italy)
546	549.5	120	Budapest (No. 1) (Hungary)			65	Hilversum (No. 2) (Holland)			5	Turin (No. 2) (Italy)
556	539.6	100	Beromünster (Switzerland)	995	301.5	15	Bratislava (Czecho-Slovakia)	1363.5	220	..	Thessaloniki (Greece)
565	531	3	Klaipeda (Lithuania)			4	Chernigov (U.S.S.R.)	1366	219.6	25	Bordeaux-Sud-Ouest (France)
		3	Catania (Italy)	1004	298.8	13.5	Bratislava (Czecho-Slovakia)			1	Tallinn (Estonia)
574	522.6	100	Radio-Eireann (Eire)	1013	296.2	70	MIDLAND REGIONAL	1375	218.2	0.5	Basle, Berne (Switzerland)
		100	Stuttgart (Germany)			3	Barcelona (EAJ15) (Spain)	1384	216.8	7	Warsaw (No. 2) (Poland)
583	514.6	20	Alpes-Grenoble (PTT) (France)	1022	293.5	1.7	Cracow (Poland)	1389	216	0.2	Chust (Czecho-Slovakia)
592	506.8	50	Madona (Latvia)			0.5	Oviedo (Spain)	1393	215.4	25	Radio-Lyons (France)
		100	Vienna (Germany)	1031	291	100	Königsberg (No. 1) (Germany)	1402	214	2	Stara-Zagora (Bulgaria)
601	499.2	15	Athens (Greece)			5	Paredes (Portugal)	1420	211.3	10	Vaasa (Finland)
		20	Rabat (Morocco)	1040	288.5	120	Rennes-Bretagne (France)			0.5	Alexandria (No. 2) (Egypt)
610	491.8	10	Sundsvall (Sweden)			50	W. OF ENGLAND REG'L.			2.5	Kaiserslautern (Germany)
		20	Florence (No. 1) (Italy)	1050	285.7	20	Bari (No. 1) (Italy)	1429	209.9	1	Milan (No. 3) (Italy)
620	483.9	15	Brussels (No. 1) (Belgium)	1059	283.3	2	Radio-Cité (Paris) (France)			1	Naples (No. 2) (Italy)
625	480	20	Cairo (No. 1) (Egypt)	1068	280.9	10	Tiraspol (U.S.S.R.)			5	Turin (No. 3) (Italy)
		10	Kouibyshev (U.S.S.R.)	1077	278.6	60	Bordeaux-Lafayette (France)	1438	208.6	0.5	Turku (Finland)
629	476.9	100	Vigra (Aalesund) (Norway)			100	Falun (Sweden)	1456	206	1.25	Miskolc (Hungary)
		20	Lisbon (Emissora Nacional) (Portugal)	1086	276.2	0.7	Zagreb (Yugoslavia)	1465	204.8	5	Eiffel Tower (Paris) (France)
638	470.2	120	Prague (No. 1) (Cz.-Slov.)	1095	274	20	Radio-Normandie (France)			0.1	Antwerp, Courtrai (Belgium)
648	463	100	Lyons (PTT) (France)			10	Vinnitsa (U.S.S.R.)			1.25	Pécs (Hungary)
658	455.9	100	Petrozavodsk (U.S.S.R.)	1104	271.7	50	Kuldiga (Latvia)	1474	203.5	1	BOURNEMOUTH
668	449.1	20	Cologne (Germany)	1113	269.5	60	Tripoli (N. Africa)	1487	201.7	0.3	PLYMOUTH
677	443.1	70	Jerusalem (Palestine)			0.5	Alexandria (No. 1) (Egypt)			0.1	Binche (Belgium)
		100	Sottens (Switzerland)	1122	267.4	6.25	Nyiregyháza (Hungary)			0.2	Albacete (Spain)
686	437.3	20	Belgrade (Yugoslavia)			60	STAGSHAW (Newcastle)	1492	201.1	0.1	Chatelaineau (Belgium)
695	431.7	120	Paris (PTT) (France)	1131	265.3	100	Hörby (Sweden)			0.7	Nîmes (France)
704	426.1	55	Stockholm (Sweden)			10	Genoa (No. 1) (Italy)			0.5	Santiago (Spain)
713	420.8	120	Rome (No. 1) (Italy)	1140	263.2	30	Trieste (Italy)			0.1	Wallonia (Belgium)
		17	Hilversum (Jaarsveld) (Holland)	1149	261.1	40	LONDON NATIONAL	1500	200	0.1	Liège Experimental, Radio-Cointe, Seraing, Verviers, Wallonia (Belgium)
722	415.5	10	Kharkov (U.S.S.R.)			10	Genoa (No. 1) (Italy)			0.25	Pietarsaari (Finland)
		1	Assiut (Egypt)			10	Trieste (Italy)			0.2	Radio-Alcalá (Spain)
731	410.4	3	Madrid (EAJ2) (Spain)			30	Turin (No. 1) (Italy)	1530	196	0.6	Santander (Spain)
		5	Seville (EAJ5) (Spain)			40	LONDON NATIONAL	1734	173	0.2	Karlskrona (Sweden)
										0.1	Liepāja (Latvia)

THE PICK of the PROGRAMMES

Verdi's "Falstaff"

THIS work, the last opera Verdi wrote, which Deutschlandsender is to broadcast on WHIT-SUNDAY, at 8 p.m., is, by common consent, the greatest achievement of his long career. Composed in his eightieth year, it is full of the vitality and good spirits usually associated with youth, and it has the same infectious humour as Shakespeare's play. In the main, *Falstaff* is not in set pieces—songs, arias, and instrumental numbers—but develops with a more complete cohesion than opera was wont to do until Wagner showed the way in his music-dramas. Not that Verdi's owes much to Wagner; different as the opera is from his earlier works, bigger and more impressive in almost every way, it is still distinctly Italian in its charm and lightness.

And although there are no distinct "numbers," there are many characteristic moments on which Verdi seized to give us the benefit of his wonderful gift of melody. Most of them are allotted to Falstaff—his praises of Mistress Ford in the first act. "O love, with eyes like stars," the famous "Honour" monologue, of which the text is borrowed from *Henry IV*, and his song scene of Act II, "When I was a Page," are typical numbers. But the music is all so merry and melodious that one gives no thought as to what this or that piece of music has to do with the course of the story.

Siegfried Wagner Anniversary

To commemorate the seventieth anniversary of the birth of Siegfried Wagner—in honour of whose birth the *Idyll* was composed by his father—Cologne is to transmit a programme of his music on SUNDAY at 8.30 p.m. Those who saw him conduct a BBC Symphony Concert in the Albert Hall in April, 1927, discerned in his confident command of the orchestra something of his father's strength of purpose, and his untimely death in 1930 was a severe loss to music.

Trained as an architect, he soon deserted that career for music and, though he had a good volume of original work to his credit—operas and big orchestral pieces among it—he had devoted himself for years to supervising faithful performances of his father's music-dramas, carrying on the devoted labours which his mother's failing health had forced her to lay down. She, too, died in the same year, a few months before her son. And so the *Idyll*, written joyously for his birth, must now become his own elegy, and hers—as perfect a thing of its order as true affection has ever inspired.

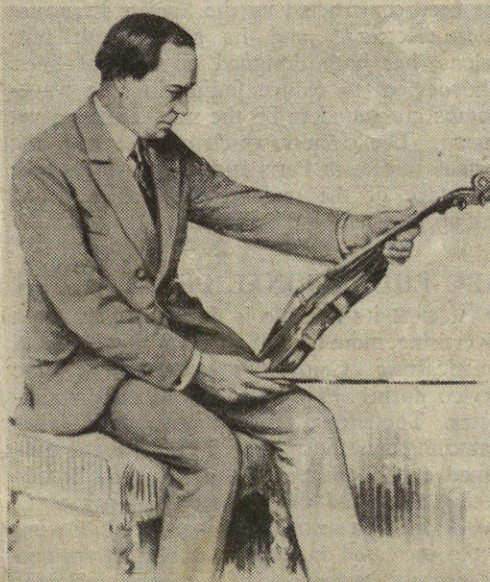
"Rhapsody in Blue"

WHILE probably best known to the general public by his *Rhapsody in Blue*, which Warsaw broadcasts on MONDAY at 10.5 p.m., or by such sparkling musical plays as *Stop Flirting*, *Tell Me More*, and *Lady, Be Good*, the late George Gershwin was much more than a mere composer of jazz tunes. His death two years ago at the age of forty was a real loss to the world of music. In his native America he had been accorded an important place among present-day musicians, and he was expected to go much farther. Beginning his career as a pianist, he caught the public fancy while he was the merest youngster by a number of successful songs, of which *Swanee* is the most famous.

The *Rhapsody in Blue* was his first important piece, and in it he has turned the virile rhythm of jazz to such good account as to make it a tonic for an age which needs all the health and vigour it can find.

Brahms's Second Symphony

IT seems inconceivable to-day, but on its first public performance, Brahms's Second Symphony, which we shall have the pleasure of hearing from Brno on WEDNESDAY, at 8 p.m., met with an icy reception. The critics, and even his admirers, disapproved because they considered it too lighthearted to be worthy of the composer of so much dignified, and even



HENRI WAGEMANS, one of Belgium's foremost violinists. He will play Mendelssohn's *Concerto in a symphony concert which will be relayed from the Liège Exhibition by Brussels No. 2 on Saturday, at 8.30 p.m.*



ALBERT VAN RAALTE, the distinguished Dutch musician, who will direct a symphony concert in the Radio-Paris studio on Sunday at 8.30 p.m.

solemn, music. But now, of course, the Symphony is counted among the world's greatest treasures of music.

There are the usual four movements, the first with two big main themes, both joyous in character. The slow movement begins with two themes at once, both played by the lower-toned instruments, and the third movement is like a scherzo with two trios. In the last movement the exultant happiness, which has been heard almost all the way through, rises to a more emphatic note, and the movement is full of splendid and strenuous energy.

"The Trout" Quintet

DESPITE the inconvenient hour, there are few Schubert lovers, having the opportunity, who will not tune in Hilversum 1 on FRIDAY, at 3.55, for the broadcast of the delightful Quintet in A ("The Trout"). It is a fine example of Schubert's felicity of expression; and the manner of its composition in 1819 was one of the astonishing feats in the history of music. Schubert was on holiday at Steyr, a charming little town near Linz, surrounded by congenial company, and it was these friends who inspired the Quintet. He wrote the parts without making any score, and played the pianoforte part at the first performance without having written any of it at all. Here, as in the *Death and the Maiden* String Quartet, Schubert has built up one of the movements on a song of his own, *Die Forelle* ("The Trout").

Donizetti's "Don Pasquale"

To wind up an entertaining week's musical programmes the Berlin station announces a studio performance of Donizetti's rollicking comic opera *Don Pasquale* for FRIDAY at 8.15 p.m. The cast is an outstanding one with Erna Berger as the young widow, Norina, Eduard Kandl as Don Pasquale, Karl Schmitt-Walter as Dr. Malatesta, and Gino Sinimberghi as the lover, Ernesto.

ALL-WAVE



ELLIOTT LEWIS, who has come rapidly to the fore as one of the leading radio dramatic actors in the U.S.A. He is now playing in "Knickerbocker Playhouse," the CBS production relayed from W2XE (Wayne) and W3XAU (Philadelphia)—Mondays, 3 a.m. B.S.T.

INDIA'S THIRTEENTH TRANSMITTER

TRICHINOPOLY—"Trichy" for short—was "put on the air" on May 16, at 6 p.m. This is the thirteenth transmitter of All India Radio, broadcasting on 397 metres (758 kc/s) daily from 2 to 3 p.m. and from 6 to 9.30 p.m. Indian Standard Time. The power is 5 kW and the wavelength, which is the longest used in India, has been chosen to suit the particular type of soil in the Trichy area.

Trichy is a centre of Tamil culture, and the new station, unlike others already in operation, is not likely to be baffled by a multiplicity of tongues and styles of music demanded by its regular listeners. Just as Madras has, in less than a year, familiarised listeners with the classical style of Carnatic music, till then a stranger to the ether, Trichy is expected to concentrate on the more popular forms of South Indian music. Trichy started its career with the good wishes of the Governor of Madras (Lord Erskine) and the Honble. Mr. C. Rajagopalachariar, the Congress Premier in the Madras Government, who broadcast talks on the opening day.

A FACTOR IN WORLD TENSION

THE critical effects of the uneven distribution of the world's mineral resources on the present international situation, and ultimate adjustments that must be made between "have" and "have-not" nations, were the basis of a recent NBC broadcast by Prof. C. K. Leith, of the University of Wisconsin. Professor Leith pointed out that, fundamentally, the problem can be met in only two ways—by a more equitable distribution or by resistance on the part of the "have" nations to such redistribution. He expressed the opinion that the mineral wealth of the United States, and the world's largest producer, largest consumer, and largest distributor of minerals and their deriva-

THE WORLD

The Youngest Royal Broadcaster?

tives, ultimately would be a stake in any struggle for redistribution, unless a peaceful solution is found first.

Professor Leith is one of the world's outstanding geologists, and is noted for his research and writings on the economic, political, and social aspects of mineral resources. He is Professor of Geology at Wisconsin, and was a member of the American delegation at the Peace Conference in 1919.

YOUNGEST ROYAL BROADCASTER?

PRINCE ALBERT of Liège, third child of the King of the Belgians, is almost certainly the youngest Royal prince to broadcast. When, on Saturday last, following his speech at the inaugural ceremony of the Liège Exhibition, King Léopold told listeners that his son would open the Show this gave untold pleasure to his subjects.

Prince Albert, who is not yet five years old, had to stand upon a chair to reach the microphone, but he pluckily faced the attendant officials, and spoke in a clear, ringing voice. "Je déclare . . .," he began, and then stopped. His father leaned over and whispered the rest in his ear (the whisper was audible to the overjoyed listeners), and the little boy began again and continued without faltering: "Je déclare ouverte l'exposition de l'eau," and the water exhibition was thereupon "open." Almost all Belgium was listening and was duly thrilled.

THE NEW RADIO-PARIS

TRIALS are now going on at the new transmission station of Radio-Paris at Allouis, in the centre of France, near Vierzon. After a transitional period, Allouis will take over the entire work of the present station at Essarts-le-Roi before the end of the year. The station has been constructed by the Société Française Radio-électrique, and its aerial, with four pylons, has been designed on original lines. The devices to reduce fading in long wavelengths are stated to be the most effective yet known. The circuits which connect with the various studios in Paris and the provinces take advantage of the underground cables which link up Paris and the big towns.

NBC EDUCATIONAL PROGRAMMES

ALTHOUGH its revenue is derived solely from advertising, more than one-fifth of the National Broadcasting Company's total programme service during 1938 was educational in character. The annual programme analysis shows that commercially sponsored programmes consumed only 29.6 per cent. of the total broadcasting time, and the balance, 70.4 per cent., was devoted to sustaining programmes. Owing to the increased interest in public affairs and the growing popularity of audience-participation programmes, programmes classified as "Talks and Dialogue" showed the greatest gain over other types. The report shows that 9.7 per cent. of all broadcasting hours during

the year was devoted to talks and dialogue compared with 7.9 per cent. during 1937. During the year a new peak was reached in dramatic entertainment, while music and comedy both suffered declines. Although 1938 was an especially significant year for "news-worthy" events, the amount of time devoted to news broadcasts actually declined. Only 3.4 per cent. of all programme time was devoted to news, a decrease of one-tenth of one per cent. from 1937.

Music programmes accounted for 58.2 per cent. of the total time "on the air," drama and dramatic readings to 17.8 per cent.; sports, 1.8 per cent.; comedy, 2.8 per cent.; women's programmes, 1.5 per cent.; children's programmes, 3.7 per cent., and religious programmes, 1.1 per cent.

THE LADY ON THE COVER

BEFORE she went to join her mother in Berlin, Mlle. Rosita Serrano, the subject of our front cover picture, had had spectacular success in Paris, where she was known as "La Chilénita." In Germany she has quickly established herself as a popular cabaret and broadcasting singer.

Mlle. Serrano was born at Viña del Mar, Chile, and since coming to Europe has appeared in films in Portugal. In addition to her broadcasts, many of which are transmitted in the German short-wave programmes to South America she has made numerous records for Telefunken-Platte.

SUMMER OPERA IN ITALY

AN elaborate and varied programme on opera, calculated to suit the general public and lovers of musical rarities, is announced by EIAR for the forthcoming summer season. The numerous opera-houses of Italy generally close down about June, and the opera-loving public, which is a very much larger one in Italy than in England, looks to the studio orchestra of the EIAR to provide opera during the summer months. There are, of course, the out-of-door opera performances in various cities such as those given at the Baths of Caracalla and the Maxentius Forum in Rome, but these are not enough.

EIAR is giving this summer, to inaugurate the season on May 28, Verdi's *Sicilian Vespers*. The same author's *Falstaff* will also be broadcast. Puccini will be represented by *La Rondine* and *Girl of the Golden West*. Leoncavallo's *Oedipus Rex*, Mascagni's *Zanetto*, and William Ratcliff are included in the list of operas.

Others announced include such rarely given works as Zandonai's *Conchita*, Alfano's *Legend of Sakuntala*, Malipiero's *Torneo Notturno*, Rossini's *Conte Ory*, Bellini's *Pirate*, Donizetti's *Poliuto* (an opera written for the French operatic stage), Gluck's *Orpheus and Eurydice*, and Strauss's *Elektra*. In addition, a number of more popular works will be broadcast, though the EIAR has aimed at broadcasting operas less frequently heard in the theatres of Italy.

OF RADIO

A More Powerful Deutschlandsender

THE NEW DEUTSCHLANDSENDER

THE German Minister of the Post Office, Herr Ohnesorge, opened the new Deutschlandsender transmitting station at Herzberg, in Saxony, some 55 miles south of Berlin, on Friday, May 19. The fact that the station was designed for 150 kW seems to prove that the rumours that it took three years to build are correct, writes our Berlin Correspondent. The power will be increased to 200 kW on March 4 next year. It is stated that the aerial mast has a total height of 1,100 ft. from the ground, and that it bears, at the summit, a circular "ring" with a diameter of 80 ft. The mast acts as an aerial in itself, and stands on a single insulator which has to support, the report states, a weight of one thousand German tons.

A special system of modulation has been employed, which gives increased range without infringing international regulations, and saves current at the same time. At some future date, it is said, the aerial system will be extended to give it anti-fading properties by adding to the number of aerial masts.

MONTREUX RESERVATIONS

FULLER reports of the recent Montreux Conference indicate the reservations with which the French delegation accepted the general scheme, writes our Paris Correspondent. If the synchronisations of certain French groups prove difficult in practice an effort will be made to modify the groupings by agreement with other Governments interested. By a similar procedure it will be sought to increase the wavelength of Radio-37, a private station, the wavelength allotted at Montreux being declared to be too short to allow the station to carry out its service satisfactorily.

Reservations were made in respect of three other stations—the Ile de France, Radio-Méditerranée, and Radio-Normandie. The French Government also reserves the right to increase the power of certain stations if the precautions to prevent interference by the German station at Saarbrücken—which is to have its power considerably increased under the Montreux plan—should prove to be ineffective.

PROPAGANDA EXCHANGES

THE Romanian broadcasting company, according to a correspondent, has recently initiated a plan for the inter-State exchange of propagandist programmes. Those States which are party to the scheme will arrange programmes of music and text in the language of the country of destination, and such programmes will be recorded and despatched to the appropriate broadcasting authority. In some instances exchanged programmes will be transmitted simultaneously—i.e., Brussels might broadcast a Romanian recorded programme and Bucharest would radiate one which had been despatched from Belgium. Thirty countries, up to the present, have signified their readiness to participate in this circular scheme.

Of the two new stations in course of erection in Romania—one in Cluj, capital of the province of Transylvania, and the other in Timisoara, capital of the Banat—that at Timisoara is expected to begin testing in September on a wavelength of 212.6 m. (1,411 kc/s).

SOUTH AFRICA'S NEW SCHEMES

THE annual report of the South African Broadcasting Corporation for 1938 reveals an increase of 32,687 in the number of effective listeners' licences. New licences issued numbered 54,807, and the difference of 22,120 between the number of new licences and the effective increase was due largely to the non-renewal of licences. Since 1936 the number has increased from 161,767 to 212,914 and the percentage of licensed listeners to European population is now 10.2, with a total revenue of £301,269.

Tenders have been invited from firms in Germany, Holland, America, and Great Britain for the supply of a short-wave transmitter of not less than 5 kW to replace the one at Roberts Heights. This will provide a full-time short-wave service from Johannesburg. Other developments contemplated are the provision of additional medium-wave transmitters at Cape Town, Bloemfontein, Pretoria, and Kimberley, an additional short-wave transmitter at Durban, and the erection of a diversity receiving station.

DO YOU KNOW THE ANSWERS?

The following questions are all based on subjects which should be familiar to readers of WORLD-RADIO. The answers will be found on page 9.

1. How many hours behind B.S.T. are the following U.S.A. time zones?—(a) Eastern Standard Time, (b) Mountain Time, (c) Pacific Coast Time.
2. When the King and Queen set foot on American soil which well-known broadcasting commentator is expected to be in constant attendance on the Royal entourage?
3. VLR, Melbourne, is the call-sign of the

Australian station on 31.32 m. Give the call used when working on 25.25 m.

4. From which building in Copenhagen is the well-known broadcast peal of bells relayed?
5. Where are dogs fitted with radio receivers?
6. What is the estimated number of receiving licences in Europe?
7. Three celebrated musicians were born in 1685. Who were they?

Questions 1, 2, 3, and 4 submitted by E. L. Heath, Essex.

Questions 5 and 6 by A. Ellis, "Rhydwenfa," Question 7 by Miss S. O'Loughlin, 25, St. Eire.

Phillips, 7, Greenside, Green Lane, Chadwell

Portmadoc, North Wales.

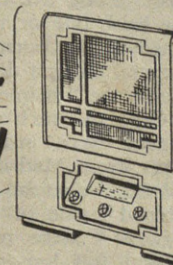
Aidan's Park Avenue, Marina, Clontarf, Dublin,



HELEN CARROLL, a talented singer who appears in "Town Hall Tonight," the popular variety entertainment relayed from W2XAF (Schenectady)—Thursdays, 2.5 a.m. B.S.T.

To remove "misconceptions existing in many quarters," the report emphasises that the Corporation is an independent body and that the Government has never attempted to interfere with its programme policy or its internal administration, or sought in any way to impose its will on the Corporation.

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A youthful *senorita* taking part in a broadcast at a demonstration in Barcelona.

"SANGRE y arena." These three Spanish words, which make the title of a famous novel by the late Spanish writer Blasco Ibañez, haunted me for thirty-three months, while I listened almost every night to the short waves that told of the fratricidal war in the country of "blood, voluptuousness, and death," as another writer, Maurice Barrès, termed it.

"Sangre y arena" means not only "blood and sand," but "blood and games;" and this is actually how Spain appeared to me during those endless months.

Many times did I tune in to "Union Radio Madrid" to hear the cry "No pasarán" and "¡Viva la República libre!" (They shall not pass. Long live the free Republic!). Turning the knob one or two millimetres farther, I listened to the burning speeches from Seville by General Queipo de Llano, who continually predicted the "shameful end of the Reds."

On a two-inch spread of the dial brothers at enmity were insulting and threatening each other, from Madrid, Salamanca, Barcelona, Valladolid, Valencia, and Burgos. Here was the "blood" side of the "war in the air." The "games" were provided by transmissions of typical folk-lore music. As I picked up, at random, Spanish stations, I frequently stumbled upon guitar *rasgueados* (quick successions of strums on the strings), providing for the rhythm of dances or of *cante flamenco* (gipsy song). So long as the dance lasted I could not tell which side was broadcasting, but as the last chord died away, and I heard infuriated voices, I awoke from a dream of peace and music to find myself again confronted by the grim shadow of slaughter.

Madrid "Carries On"

My most thrilling experience was at the very beginning of the war. In the tram, after work, I saw a title splashed on a newspaper front page: "Madrid has been taken by the troops of General Franco!" I hurried home, turned the knob to Madrid, and at 7.30 p.m. heard the first bars of the "Internationale," telling me that the "paper story" was false. Later came the announcement: "Aquí, estación radiotelefónica de Madrid. Vamos a radiar unos aires populares de Valencia." (Here is the wireless station of Madrid. We now broadcast popular tunes of Valencia.) After some dances and *cante* records, the microphone was switched on to the Monumental Cinema, of Madrid, where the Frente Popular was staging a mass demonstration on the occasion of the nineteenth anniversary of the Soviet Union of Republics.

I have heard Herr Hitler speaking before the

BROADCASTING IN SPAIN

A Listener Recalls some Eventful War-Time Transmissions

By LOUIS QUIÉVREUX

"mike" on many occasions with such violence and anger that his voice seemed on the verge of bursting the loudspeaker. Signor Mussolini's voice came through recently with such strength that I had to close the window—but never have I been struck by accents so impassioned as those of the orators of that night.

I jotted down some sentences which reflected the spirit of Madrid's defenders in that fateful hour, when all newspapers announced their surrender. "No podemos retroceder, defenderemos Madrid con las uñas, con los dientes." (We may not retreat, we shall defend Madrid with nails and teeth.) "No tomarán Madrid . . . No pasarán . . . Defenderemos Madrid calle por calle, casa por casa, milímetro por milímetro hasta que cada calle sera un río de sangre. . . ." (They shall not capture Madrid. They shall not pass. We shall defend Madrid street after street, house after house, millimetre by millimetre, until each street will be a river of blood.)

Speeches by "La Pasionaria"

Later, from the respective sides, I heard enthusiastic transmissions when Málaga and Barcelona fell, when the Italians retreated at Guadalajara, when the Republicans took Teruel. I heard speeches by Dolorès Ibarruri ("La Pasionaria"), the famous Communist woman deputy. I have listened to the most appalling tales of bombardment, persecutions, executions, and flights.

I heard, during the last stages of the war, the "Radio España del Frente de Madrid, al servicio de España y a los órdenes del Caudillo" (Radio Spain, on the Madrid front, at the service of Spain and under the orders of the Leader) send code messages to the "fifth column" in Madrid. The names of the persons to whom the messages were addressed were usually concealed like this: "Atención . . . Aragón 33!" or "Atención . . . Salamanca 2," followed by long dictations of series of three figures: 345-638-521-542, etc.

The most famous broadcaster of the Spanish War was General Queipo de Llano. His daily

charla (gossip) from Seville was listened to by everyone, even in the Republican area. I often heard his harsh voice, often tinged with irony and always threatening. On October 19, 1937, he began by saying he had been shot (said the "Reds") by a high official in his car. "¿Comprenden el horror que me ha producido la noticia?" (Do you realise the horror the news caused to me?), he said, sarcastically.

Listening to the General

His talks invariably began with "Buenas noches, señores" (Soldiers ignore "ladies" in war-time), and ended with "Y nada mas, señores. Muy buenas noches." (And nothing more. A very good night.) Minimo Catalan, a Barcelona Nationalist journalist who was forced to hide until Franco took the city, has just told how he managed to listen to the General every night.

"We had the joy and the surprise to find, on a small place on the dial, a most unusual station, a station which broadcast records of guitar and *cante flamenco*—and news from the Ejército Salvador (the army of the saviours). That was Seville. We called General Queipo de Llano 'Señor Pla' or 'our friend Pla.' We said to true friends: 'Did you hear our friend Pla yesterday? He was marvellous!'"

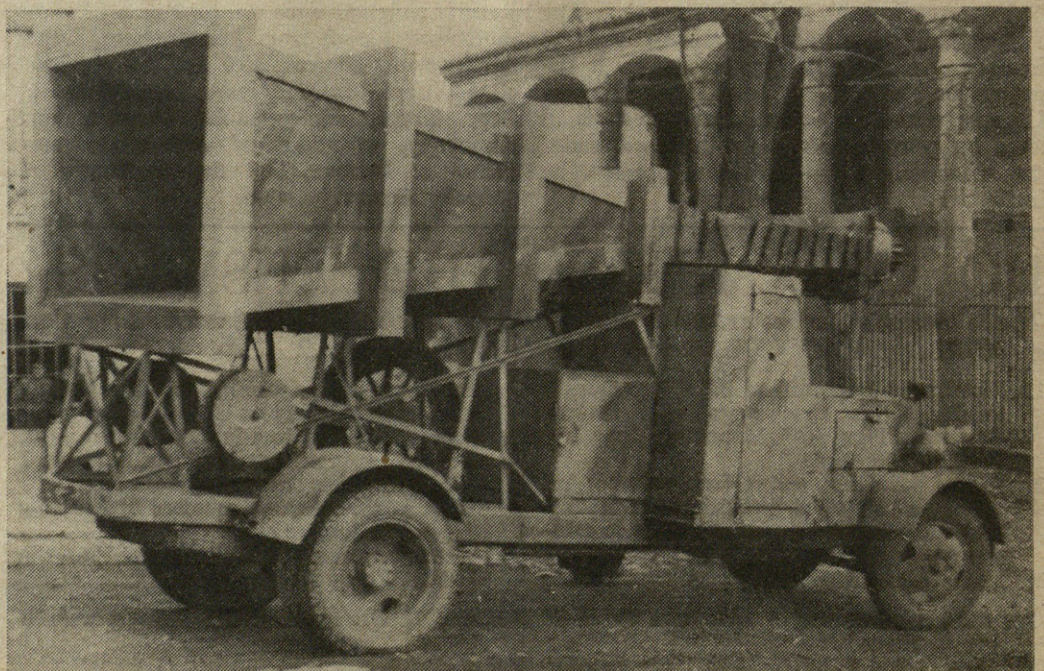
On March 28 of this year I tuned in to Madrid to find that the Nationalists had taken possession of the studio. "Madrid," said an announcer, "is living its first real Spanish night, with joy and tears!" "The dead martyrs in Heaven to-night thank Franco! ¡Arriba España! ¡Viva Franco!"

The New Government Service

The end of the civil war in Spain makes necessary the complete reorganisation of broadcasting, under the control of the new Government.

The group of 70 small transmitters, of which

(Continued on page 10)



A new instrument of war: this type of loudspeaker was used for broadcasting across the trenches to the opposing forces.

RADIO BY SUBSCRIPTION

The Dutch Broadcasting System

THIS year Dutch broadcasting has celebrated its twentieth anniversary, for it was in February, 1919, that the first public demonstration of wireless telephony was given, at the annual exhibition at Utrecht, by Philips and the Dutch radio industry at The Hague. This demonstration was followed, in November, 1919, by weekly broadcasts from the Dutch radio industry, on a wavelength of about 1,000 metres. The object of the broadcasts was to stimulate the purchase of wireless equipment by amateurs.

(Roman Catholic), and the NCRV (Protestant). These organisations were founded primarily for the purpose of broadcasting programmes in accordance with the tastes of their members.

At this stage there was only one transmitter available and the time for each association was severely restricted. This caused fierce competition for "time on the air." The trouble was largely overcome by the erection of a second transmitter; and the Government finally divided the available time into four equal parts, allotting one transmitter to two associations, and the other transmitter to the two other associations. Time is divided in such a way that, in general, one association is broadcasting one day, and the other association the next day.

When, some two years ago, the Romanian Brasov transmitter came into use, on a wavelength of 1,875 metres, there was considerable interference with the Dutch programmes. As it was not possible to settle the question by agreement, the Dutch G.P.O. built another transmitter for the only available wavelength (415 metres). This is an experimental transmitter, and broadcasts the programme of the 1,875-metre station. Eventually this will be replaced by a high-power transmitter.

Nobody using a wireless set in Holland is obliged to pay anything to the Government or any other body for the service, and it may seem an astonishing fact that the four broadcasting organisations have about half a million subscribing members. This is no small number when it is remembered that the population of the country is only about eight millions. There is just one obligation: the owners of receiving sets are required to register them at the Post Office. Anyone failing to comply with this regulation is liable to prosecution.

Sound Finances

Apart from the subscriptions, Dutch broadcasting has no other source of income (advertising is not allowed), but the organisations are powerful financially, and they are able to produce programmes of a high standard.

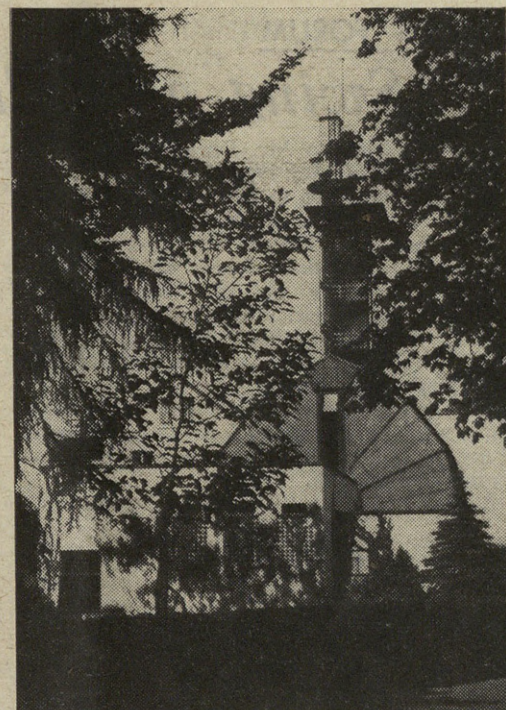
In some broadcasts the various associations naturally endeavour to further their own particular point of view, but they are not allowed to exploit matters that might be objectionable to other sections.

In 1922 the N.S.F. in Hilversum (which was producing transmitting equipment for commercial use, and is now part of the Philips concern) built a small transmitter for experimental purposes, and began broadcasting regular programmes. These broadcasts aroused great public interest, and it was around these transmissions that the Dutch broadcasting system was developed in Hilversum.

Pioneered by Amateurs

However, up to 1922 there were only occasional broadcasts, and listeners began to clamour for regular programmes. When the N.S.F. explained that they could not undertake the expense this would entail, a number of radio amateurs banded themselves into an association for this purpose. The members paid an annual subscription, and with this income the association was able to rent the transmitter and to pay artists. From the moment the broadcasts started, there was a rapid increase in membership, and the formation of other associations soon followed.

By 1925 there were four such associations, all of which are still in existence—the AVRO (General Society for Radio Broadcasting), the VARA (The Workers' Radio Society), the KRO

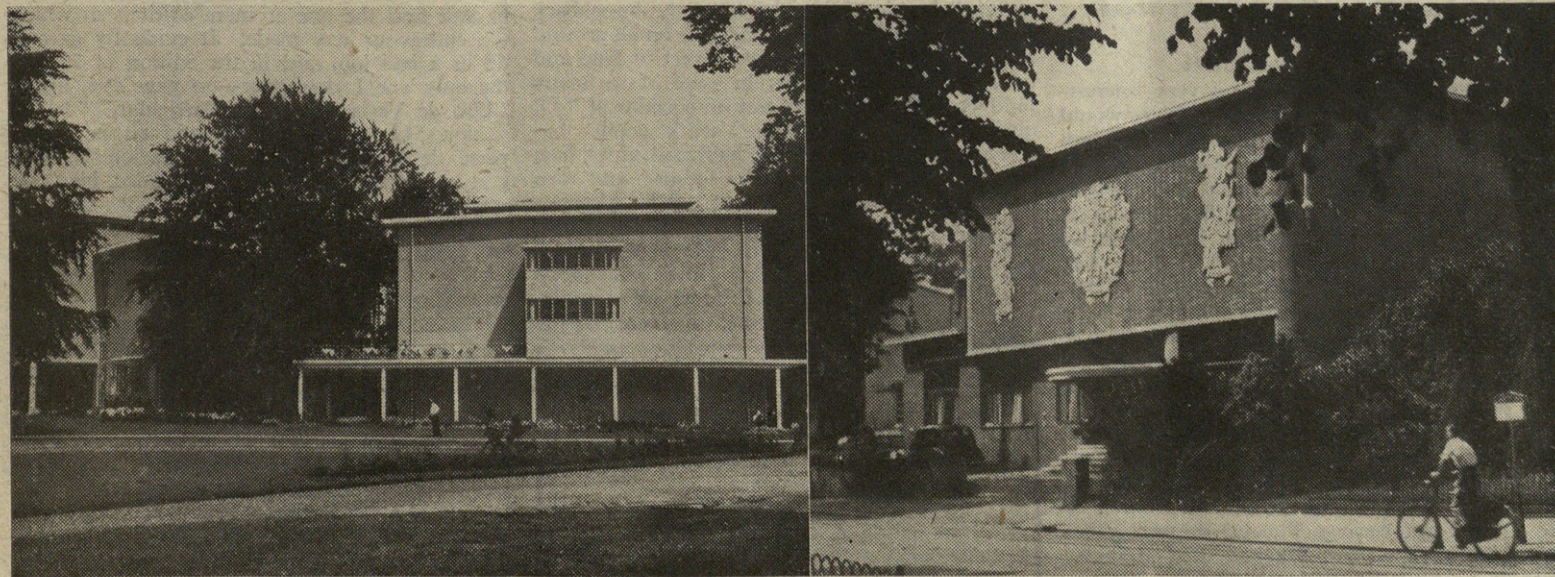


The VARA studios in Hilversum.

A special Government Commission is appointed to see that the regulations are properly carried out, and it has power to stop the transmission of anything it considers improper. It is interesting to recall that the early broadcasts were produced in dwelling-houses in Hilversum. In 1932 the VARA opened the first Broadcasting House especially built for the purpose. In 1936 the AVRO followed, and finally the KRO opened their new Broadcasting House last year. The NCRV building is still in construction. All these buildings are provided with modern equipment and all the facilities of modern broadcasting studios.

To sum up, one of the main advantages of the Dutch system is that the method of raising funds makes it necessary to consult listeners' tastes in the compilation of programmes. In addition, the healthy competition between the associations ensures the maintenance of a general high level. The one drawback, from the associations' point of view, is that a large body of non-subscribers enjoy the benefits of their services without let or hindrance.

D. J. F.



The four broadcasting societies in Holland each have their own separate studio buildings. The building on the left is that of the AVRO; and on the right are the KRO studios.

READERS' FORUM

Swing and Classical Music

SIR,—Replying to Mr. Pommerol's letter in WORLD-RADIO of May 19, I should like to assure him that I can listen to Beethoven and Wagner with the same fervour as I listen to swing music. My selection of records can best prove this. Mr. Pommerol would find records of Beethoven's Seventh Symphony and of Duke Ellington, Wagner's *Rienzi* Overture and the Washboard Rhythm Serenaders, Bach Suites and Eddie Carroll, "The Hebrides" and Joe Daniels's Hot Shots, and many others.

I can also assure him that I have two brothers and a sister who think as I do, though outside of my family I have only met one who has equal appreciation of both.

Birmingham, May 19. V. P. LANDRETH.

JAZZ v. SWING

In my opinion, jazz and swing are two totally different things. Swing is a manner of dancing to the rhythm of a slow foxtrot or a quickstep. On the other hand, one can hardly dance to jazz music—real jazz music—nor is it intended for dancing.

With jazz one should listen attentively to the soloists and try to grasp the meaning of everything which is played. The essence of jazz is not the melody with accompanying harmony. The jazz player has the melody in his mind; he does not play the melody in its exact form, but variations on it; he varies it so that all possible—and, for untrained ears, impossible—tones are to be heard in it. Each man plays what he likes, so to speak, but all play their variations at the same time. That is what I understand by jazz. Anyone who knows the piece and is also "jazz trained" will immediately be able to pick out the fundamental melody, though it is not actually played. A certain amount of training of the ear is necessary for this.

Jazz is not "dead," as Mr. Prince expressed it, but is still very much alive, especially in America: Benny Goodman and Teddy Wilson's quartets, and Fats Waller and his ensemble are the only hot jazz bands which can be understood at all by some cultured Europeans.

To sum up, swing music is dance music; jazz music is for listening to—but only for those who understand it.

I hold jazz to be an advanced stage in the development of music! I am waiting for the creation of good European jazz bands, which will surely come from England.

Berlin, April 23. WOLFGANG FRIEDÖHL.

VERDI v. PUCCINI

Mr. Albert Salomone's letter is very interesting and provocative. Of course, anybody would agree that Puccini at his best is better than Verdi at his weakest; that *Butterfly* is a more inspired tragedy than *Trovatore*, but would any responsible critic or historian suggest that Puccini at his best comes anywhere near the Verdi of *Otello*, or is even as great as the Verdi of *The Masked Ball*? And though we should all use our own judgment in these matters, general consensus of informed opinion is not to be ignored.

It is curious that Mr. Salomone does not seem to realise the amazing advance of Verdi even into his old age: with one exception all the Verdi operas he mentions are early ones, and to compare the choral work in *Trovatore* or *Rigoletto* with that in *Otello* is surely rather strange. It would seem as though he prefers Puccini to the early Verdi because Puccini learned something from Massenet, Wagner, and (latterly) Debussy; so that his operas become "a successful synthesis of lyric opera and impressionism—with a suggestion of the Wagnerian music drama

thrown in" (if I may quote my "From Monteverdi to Sibelius"). But there is also a good deal of the music drama about the later Verdi operas. And the music drama is not always an advance on the lyric opera. Much depends on the subject-matter; much, too, on the breadth of genius shown by the composer. The man counts for more than the manner. Puccini is surely more of a mere sentimentalist than even the early Verdi? He is certainly neither so wide in understanding nor so deep in feeling as the later Verdi or the later Rossini. Even as a melodist, I suggest, he is often commonplace. It is true that the melodies of Bellini and the early Verdi are much more thinly accompanied; but that is because they are usually so beautiful that they need no rich harmonies nor polyphonic weavings to support them—a thing we could say of only a very few of Puccini's tunes.

In short, I would suggest that the greatest Italian opera composer is the later Verdi; that the greatest single Italian opera is Rossini's *William Tell*; and that Bellini's *Norma*, Donizetti's *Favorita*, and the best of the early Verdi are all as worthy of praise as the best of Puccini.

London, N.11, May 12. BASIL VINEY.

* * * *

Verdi and Puccini worked on very different lines, and I do not think that they can be compared, because they cannot be judged from the same angle. Puccini used his libretto as a rather slender backbone or trellis on which he wove his melodies. Verdi did not; and to understand Verdi one must realise that for him the story on which he built his opera was immensely important, and even more important than the story were the characters. Where Puccini used all the means at his disposal—orchestra and singers—to impress his audience with an appropriate atmosphere, Verdi centred all his energies on showing us personages that are not mere musical creations, but truly human men and women—beings with complex emotions and plausible reactions to one another. He did not always achieve his ideal, but nor did Puccini always succeed in composing truly descriptive music. But when Verdi *did* succeed the character of his hero or heroine is brought to life by his music as forcibly and surely as The David came to life under Michelangelo's chisel. The greatest inspiration in *Rigoletto* is not (in spite of what Mr. Salomone says) in "La donna e mobile," but in all the music of the hunchback jester, who hates and casts ridicule on all around him because he is himself an object of hate and ridicule. And *Trovatore*, in spite of its many failings, is a great opera, not on account of "Di quella pira," but because Verdi's genius has given us Azucena: a wild, half-mad gipsy hag, obsessed with the wish for vengeance, and torn in two by a mixture of love and hate for Manrico—hate because he lives instead of her own babe, love because he is all she has left in the world, and has unconsciously taken that very babe's place in her heart. I could quote many more. *Aida* and *Amneris* are both of them deeply

human, and *Boccanegra*, *Otello*, and *Falstaff*. And the success of *Traviata* is not just because it "contains a fine story and has many good arias," but because Violetta is at the same time the principal character study and the prima donna—a rare coincidence.

Mr. Salomone objects that none of Verdi's music is as romantic as that of *Bohème*. No, it is true, Verdi is not romantic. But did Puccini ever write such a love duet as that of *Otello*? Whether Puccini's work is faultless or not is a matter of opinion, but Verdi must not be condemned for being unequal in excellence.

May 14.

(Miss) M. THOMASSON.

TENOR v. SOPRANO

I read with interest Mr. Ekborg's further queries on this question. I quite agree with him that when the part of Octavian is sung by a mezzo-soprano, it may seem somewhat unrealistic to the majority of twentieth-century opera-lovers. But we must not forget that if, in the eighteenth century, a tenor were to have sung the hero's rôle in an opera of Handel, Hasse, or Scarlatti, to those audiences it would have seemed just as unrealistic as we to-day find their practice of having a soprano to sing the tenor part. In those days the majority of tenors were *castrati*, the mezzo-soprano being the next most suitable voice for a heroic rôle, such as that in Handel's *Xerxes*.

Finally, there remains a purely technical point, which may have some important bearing on the matter. Were a tenor to take up Octavian's part, after "Marianel" sheds her disguise, it would naturally necessitate the final trio, preceding the duet, being sung by two sopranos and a tenor. Now there can be no doubt that from the dynamic, colouristic, and contrapuntal points of view, Richard Strauss found it far more satisfactory to create such a number as this for coloratura, medium, and mezzo-soprano. He thus achieves a highly subtle and moving texture, which no lover of true art could wish to see altered, even for the sake of the general effect.

London, N.W.3, May 13. PAUL SEGALLA.

INTERNATIONAL PRONUNCIATION

Commenting on Mr. Prince's letter in your issue of May 12, I should like to say that there is no hard-and-fast rule regarding the pronunciation of the "b" and "v" in Spanish. The Spanish Academy endeavoured to bring this about some years ago, and anyone wishing to confirm this has only to look over the various editions of the *Gramática de la Real Academia*, published during the last 40 or 50 years, and he will find the one or more editions in which the endeavour was made. It evidently gave it up as a bad job, and in the edition of 1925—the only one I now have—on page 496, under "Uso de Varias Letras en Particular," "b, v," section 512, we read: "Siendo en la mayor parte de España igual pronunciación de la b y la v, conviene tratar aquí de las dos, bien que apartadas en el orden alfabético." (As the pronunciation of "b" and "v" is the same in the greater part of Spain, it is well to deal with both of them here, even though separate by alphabetical order.)

The only "b" invariably pronounced as the "v" in English is the one following "m," as in "también," "tumba," etc., or before a final "n" of a preceding word, as in "un bastón," "un banco." The "v" is also more often than not pronounced like "b" following an "n," as in "un velo," "un vaso," most Spaniards and South Americans saying "un belo," "un baso." For the rest, as a South American who has also visited Spain and engaged in literary work in Spanish, I can absolutely confirm Señor Martínez's letter of April 4.

"QUIEN SABE."

London, N.W.8, May 15.

Letters should be addressed to the Editor, "WORLD-RADIO," Broadcasting House, London, W.1. Letters intended for publication should be as brief as possible, and should always be accompanied by the full name and address of the writer, though not necessarily for publication.

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LEAVES FROM MY LOG

By "Log-Roller"

THE ROYAL TOUR

THE American stations have been providing us with a wonderful service of news about their Majesties' tour in Canada. In fact, it has seemed to me that no matter when you make a tour of the U.S.A. stations you were pretty sure to find one or other of them engaged in a relay or a recording of events in Canada. This (Sunday) afternoon I have just been listening to the ceremony of the unveiling of the National War Memorial at Ottawa from W3XL, on 17.78 Mc/s (16.87 metres). Reception was first-rate and every word of the King's speech after the unveiling came through as clearly as one could wish. The commentary was so graphic that, much as one would have liked to be able to avail oneself of the trans-Atlantic television that the future may bring, one could almost see everything that was going on. W3XL, by the way, announced a daily two-hours' transmission specially for this country from 17.00 to 19.00 B.S.T. Under normal conditions you'll find the station easy to receive at good strength.

A CRITICISM

Referring to my recent note on the excellence of relays from across the Atlantic to-day, and particularly on the absence of background noises, a Creetown reader says that the relay of the description of the arrival of the King and Queen didn't quite bear out what I said. I'm not so sure. Most unfortunately, a channel had been chosen which turned out to be a poor one for various reasons. But the relay was perhaps not a bad example of what modern receiving equipment can do when it has to deal with a really difficult transmission. Had we been using our sets on that channel, we shouldn't have made much of it. I didn't try for it direct *via* any of the U.S.A. stations. My correspondent did, and tells me that he found it coming through very much better on the 17 Mc/s (16-metre) band. The most carefully made arrangements are bound to be upset at times, I suppose; and this was apparently one of the times when they were.

EFFECT—AND CAUSE

On a recent morning I thought I'd see whether anything was coming through from stations in the antipodes, before sitting down to breakfast. I turned to the settings of VLR3, switched on and waited for the set to warm up. As the heaters of the valves came to the right temperature my ears were assailed by a loud, continuous, and very unpleasant noise that issued from the loud-speaker. I hastily turned the tuning knob, but the noise was still there, no matter which part of the short-wave bands I visited. It lasted only about five minutes; then suddenly stopped and was no more heard. In fact, I didn't come across it again until I switched on at the same time two mornings later. Again it was present at all settings; again it suddenly stopped. Though I tried at odd times during the day, I couldn't hear it again. Mystery! Light came during a visit from my next-door neighbour, who pulled a neat little case from his pocket and began an enthusiastic description of the wonders of his new electric razor. He has promised to have it "silenced," and I only hope he may be successful.

AN ICELANDIC BROADCAST

One of the most interesting short-wave transmissions that I heard during the week came from TFJ, the 12.23 Mc/s (24.52 metre) station at Reykjavik in Iceland. Of course, I'd logged

TFJ long ago, but for one reason or another I had never bothered to listen very much to its transmissions; the language anyhow is not in my limited repertoire! But whilst moving from the 15 Mc/s to the 11 Mc/s band I hit upon some fine choral singing and stopped to listen. Reference to the calibration chart showed that the station was TFJ, and at the end of the item then in progress the announcer spoke in English, naming the station and introducing a talk. This was on some recent discoveries of Icelandic weapons of the eleventh century at a place in North America hundreds of miles from the sea. The genuineness of the weapons is undoubted, and there can't be two opinions about the period from which they date. Unless they were taken at a later date to the place where they were found buried—which seems unlikely—they go to prove that Icelanders visited America and went far inland at about the time of the Norman Conquest. I've noted TFJ as worthy of more attention in future, and I advise you to try the station on Sundays.

"LUXEMBOURG EFFECTS"

It used to be thought that the Luxembourg Effect, in which one station appears as a strong background to another on an entirely different wavelength could be caused only by long-wave stations—a long-wave station, that is, might "haunt" the transmissions of a medium-wave station like a kind of radio ghost, though one medium-wave station could not affect another in the same way. But Professor V. A. Bailey, who was the first to explain the Luxembourg Effect, has shown that medium-wave transmitters can interact with one another and produce Luxembourg Effects, provided that one of them has a carrier-wave of a particular length, which depends on its locality. Professor Bailey calls this the gyro-wavelength.* He published the calculated gyro-wavelengths for several European areas and gave a list of stations in these areas whose wavelengths were near enough to that of the local gyro-wave for them to cause interaction. Only one station in the new plan (Copenhagen, on 228.7 m.) have one of his local gyro-wavelengths. I hope that he will examine the Montreux Plan and predict which, if any, of the stations in its list are likely to cause interaction effects when the plan comes into force next March.

ON KILIMANJARO

A forestry officer, at present home on leave from British East Africa, writes from Sussex to tell me of the excellent short-wave reception that he obtains in the Tanganyika Territory with an aerial of the most unorthodox kind. His work takes him to the slopes of Kilimanjaro, the highest mountain in Africa, and his reception takes place in his various camps at an altitude of some 4,000 feet. The aerial? Well, some time ago he ordered a length of cabled insulated aerial wire, which arrived neatly coiled in a box. And in that box it just stays, except for a couple of feet or so running from the box, placed on top of the receiver, to the aerial terminal! A pretty queer kind of aerial; but it works. I suppose that the coiled cable and the earthed chassis of the set form between them a capacity collector, which happens to suit the set fairly well. I can't help thinking, though, that he'd get even better results if the aerial wire came out of its box and was suspended between two handy trees. One advantage about conducting short-wave reception on Kilimanjaro is that there's no man-made interference to worry about.

*"Artificial Auroras," Ralph Stranger (*W.-R.*, Jan. 27, 1939).

Which station was that?

IMPORTANT NOTE.—This feature is intended for the identification of broadcasting stations and not for the supply of addresses, details of commercial stations (i.e., point-to-point telephony stations), etc. Such information can, as a rule, be obtained by writing to the Editor, enclosing stamped addressed envelope.

The Alternative Postal Service

In addition to the free service of "Which Station Was That?" printed in these columns, replies to station identification queries can be obtained within forty-eight hours of receipt of details on payment of 6d. per query, in stamps, or P.O., accompanied by stamped addressed envelope (marked in left-hand top corner "Postal Query Service"), and coupon as per conditions for "Free Queries."

KNOB-TWISTER (Norwich): (1) CXA2, Montevideo (Uruguay), 31.35 m.; 5 kW; distance from London 6,600 miles (approx.); (2) if time tallies with ours, as you say, it could only be Lisbon; (3) cannot say what CJRX was broadcasting at the time, but frequently the Canadian stations relay programmes from U.S.A.; WQV is a commercial station at Rocky Point (N.Y.), 20.27 m.; WQG, also at Rocky Point (19.95 m.). **PICK UP (Ponders End):** VUD4, Delhi, 19.62 m. **KROW (Bristol):** You omitted to enclose coupon. **TRIANGLE (Holt):** Karlskrona (196 m.), relaying programme from Stockholm. **TWIDDLE (Eccles):** (1) regret, cannot trace; (2) not in official list, but, according to time, a station at Blantyre (Nyasaland); (3) cannot identify transmitter, but, according to call stated, Benito (Rio Muni), a Spanish possession on the west coast of Africa; (4) HZA is not in Berne list, but would be the call-sign of a transmitter in Saudi Arabia. **SPARK (Dublin):** Cannot reconcile your time (12.10 a.m.) as Epilogue is broadcast at 10.30 p.m. Wavelength quoted would tally with second harmonic of Scottish Regional. **LATE LISTENER (Belfast):** Rome. **BUDAPEST READER (Budapest):** See "Knob-Twister" (Norwich) (1).

AMATEUR TRANSMITTERS

The identity of amateur transmitters may be found in the "Radio Amateur Call Book," which is published quarterly in the U.S.A. Copies may be ordered (price 6s. post free) through the BBC Publications Management Offices, 35, Marylebone High Street, London, W.1. The 1939 Edition of the "Radio Amateur Handbook" (price 5s. 6d. post free) may also be ordered from this address.

IDENTIFICATION COUPON (No. 537)

This coupon is valid for ONE QUESTION only and should be cut out and attached to a separate sheet, upon which the following questions should be answered in the order shown. No coupon more than one month old is valid. A coupon is not required from readers living in countries outside Europe who desire identification of transmissions.

1. Time and date of reception.
2. Approximate frequency in kilocycles (or, for short waves, in megacycles) per sec. (or wavelength in metres).
3. Nearest known stations, above and below.
4. Call or interval signal, if heard.
5. Language.
6. Type of receiver in use and strength of signals.
7. Details of programme or signal received.
8. Name and address.
9. Nom de plume. (*Proprietary names must not be used.*)

Esperanto Transmissions

Sunday: Lille, 8.45 a.m. Esperantistaj Informoj, Hilversum (1), 10.45 p.m. Romkatolika Prelego. **Monday:** Rome 2 and 2RO, 9.50 p.m. Politikaj Notoj. Paris (PTT), 10.45 p.m. Majo 1789—triakta radioprezentado. **Tuesday:** Kaunas, 9.20 p.m. Nia Anguleto. Estonian Stations, 10 p.m. Estona Vivo. Rio de Janeiro (31.58 m.), 11.30 p.m. Informoj pri Brazilo. **Thursday:** Paris (PTT), 9.30 a.m. Esperanta Kurso. **Saturday:** Rome (2) and IRF and 2RO9, 6.40 p.m. Turismaj Informoj.

"DO YOU KNOW...?"—62

Answers to Questions on page 5

1. (a) Six hours, (b) eight hours, (c) nine hours.
2. Bob Trout.
3. VLR3.
4. The Town Hall.
5. The police dogs of New South Wales.
6. Rather over 30 millions.
7. (a) Domenico Scarlatti, (b) Handel, (c) J. S. Bach.

British Stations in Sweden Broadcasting in Spain

(By our Stockholm Correspondent)

IT is extremely difficult, not to say impossible, to give a general statement about the reception in Sweden of foreign stations in general, and of British stations in particular, and this chiefly for two reasons. The first is the length of the country—1,200 miles, of which a considerable part is in the Arctic Circle. The second reason—the enormous difference in light conditions in winter and in summer—is a consequence of the first.

The reception of stations in the medium-wave band is very good in the winter, the stations coming in clearly at about 4 or 5 p.m. or even earlier. About the time of the spring equinox the curve falls very rapidly. At this time of the year medium-wave stations come in about 9 p.m. Later in the summer the same stations do not come in clearly until about 10 p.m. or even later. In the autumn the curve rises again, rapidly in the middle of September, until winter conditions are reached. Of course, this is only a general statement, as the conditions vary enormously: the British stations are better on the west coast, for example, than elsewhere.

Conditions may be described as follows:—

DROITWICH: Very fair reception at night and in the daytime.

STAGSHAW: Very good just now—reception in daylight at Göteborg.

SCOTTISH REG.: A good and "certain" station for Sweden. Daylight reception in Göteborg.

NATIONAL (261 m.): Good daylight reception at Göteborg.

LONDON REG.: Not good in daylight, fair at night.

NORTH REG.: Same conditions, in some places interference by Jerusalem in the afternoon and evening.

MIDLAND REG.: Not very good, disturbed by near stations.

WELSH REG.: Very fair at night.

BELFAST: Very fair at night.

EMPIRE SHORT-WAVE STATIONS: Very good all the year.

As for other European stations, the German ones are far superior to the British in the south and middle parts of Sweden, whereas in other parts the difference is not so great. Some Russian stations occasionally interfere with British stations, as also does Jerusalem.

As a general conclusion, the reception of British stations is fair in Sweden (except in parts of the big cities, where all foreign reception is hampered by disturbances of a local nature), and there is nearly always the possibility of hearing at least one or two stations on an ordinary set of 4 or 5 valves.

the majority belong to private companies and are maintained by "advertising," will be replaced by an official broadcasting service, consisting of a limited number of stations of a higher power. If called upon to serve the national cause, broadcasting will be under the authority of the Minister of the Interior, and more immediately under the Department of Press and Propaganda.

The first stage of the reorganisation comprises the installation of more powerful transmitters. Madrid 1 is to be 120 kW; Madrid 2, 5 kW; Barcelona, 50 kW; Saragossa, 30 kW; Seville, 7 kW; and after that the erection of fifteen small transmitters to be used as relay stations. A short-wave station, with a power of 40 kW, now in course of construction, has for its objective partly the establishment of contact with Spaniards living in foreign countries and partly the transmission of programmes intended for Spanish colonies and the Spanish-speaking countries of Latin-America.

The official plan envisages the radio conquest of the most remote village: to that end a number of receiving sets will be distributed free to schools, public institutions, and the meeting-places of the Falangists. The Government is endeavouring to establish a national wireless industry, capable of producing a standard receiver, in order to encourage communal listening.

The licence taxes, instituted by a Decree of December 5—last, in the regions then already conquered by the Nationalist forces, will be applied to the entire country. These taxes, ranging from 2.50 to 100 pesetas, are assessed on a somewhat complicated system: distinction is drawn not only between crystal and valve sets, between private use and public use of a set, but also between different categories of set-owners (graded according to the rent of their dwellings or to their occupations). There is in prospect a further tax of 10 pesetas for each additional loudspeaker installed in a public establishment. On the other hand, there are a number of exemptions, notably for hospitals, prisons, welfare societies, and other public and State institutions. Penalties for "pirate" listeners are severe, and range from 100 to 500 pesetas. Since, however, the total revenue from all the taxes is not sufficient to balance the expenses of broadcasting, the National Government maintain radio-advertising and give a certain preference to "sponsored" concerts.

language of its own. These signs play an important part in American radio production. An elaborate system of gestures has been developed to allow the production man to communicate with those in the studio from his adjacent glass booth as well as for communication between the performers themselves. This sign language has been developed to the point where the Columbia Broadcasting System has had drawings of these signs made and incorporated into a booklet which is distributed to the engineers, production men, and performers.

Signs are used to direct the performers to speed up or slow down, sing louder or softer, get closer to or move away from the microphone, and also to indicate how the programme stands for time.

Naturally, all radio performers are not, at first, familiar with these signs, and a story is told of one singer who looked up during a broadcast to see the production man with his finger at his nose. The singer was furious, taking the gesture as an insult to his performance. He took a lot of persuading that it was a standard sign that the programme was "on the nose"—in other words, exactly to schedule!

J. C.

Radio's New Language

ONE of the most striking things about an American broadcasting studio is that much of the conversation is carried on in a strange language entirely incomprehensible to the layman.

On a recent visit to the United States I was fortunate enough to be allowed to visit one of the broadcasting companies' studios. As soon as we arrived an executive dashed up and greeted my guide and myself something like this:—

"You two guys get along to the fish bowl and I'll be seeing you. We're starting the heartbreak as soon as the fairy godfather and the scoutmaster turn up. The show is a one-shot tear-jerker."

Translated, I found that what he said was:—

"You two go along to the observation booth and I'll see you later. We're starting the rehearsal as soon as the sponsor and the advertising agency executives arrive. The show is a 'feature' [not part of a series] with a sad theme."

This studio slang has developed until it now covers every possible aspect of broadcasting.

Since American advertisers spend the equivalent of over £23,000,000 annually in sponsored radio programmes or "commercials," it is but natural that sponsors and their advertising agencies should have a prominent place in the new language. Thus, the term "heartbreak" signifies an audition before a sponsor who is considering hiring the show. A "fairy godfather" is a sponsor who, once having hired a show, does not interfere overmuch in the details. "Clientitis" is trouble with the sponsor.

There does not appear to be a slang term for a sponsor who is hard to please: perhaps the mildest they say about him is more than slang! A talent salesman from the advertising agency is a "flesh pedlar." Major and minor executives are known as "scoutmasters" and "Rover boys" respectively. An unimportant employee from the agency is a "grasshopper."

The orchestra has also been completely renamed. The leader is a "peacock," the trombone

player a "putty blower," the xylophone player a "woodchopper," while the name "old sexton" denotes the bass soloist.

Sheet music is known for some obscure reason as "long underwear," and a "long underwear gang" is merely an orchestra which plays the various pieces in a stereotyped manner instead of having its own variations.

The microphone and artists' reactions to it are all vividly described. Microphones are "hot" or "dead" according to whether they are turned on or off. An artist who gradually works close to the microphone is a "creeper" or "mike mugger." "Mike Hog" is the name given to one who presses closer to the microphone than the others, while the performers who understand microphone technique are "mike wise." Working so close to the microphone that volume is too high is "bending the needle" and not, as we should say, distortion.

Many graphic terms are, I found, in use to describe the artists themselves and their peculiarities. Thus, a "town crier" is a singer with too much volume, and a "scooper" one who slurs his notes. A performer who overacts the climax to a play "hams the O. Henry," one who misses his cue "grows a beard," while the artist who gives a poor performance "lays an egg," in radio slang.

A comedian in any sponsored programme must beware of "pulling an offside," as Americans term using an improper gag. This offence is just as likely to land a performer "on the beach," or out of a job, in the United States as it is here. American sponsors are every whit as careful of their reputations in this respect as are the BBC, and with good reason. Any offence given by a performer during a sponsored programme will naturally reflect unfavourably on the sponsors.

An expression which I thought particularly apt was "dawn patrol," to describe the personnel of the early-morning broadcasts.

Besides creating a new slang language, American radio is building up a "sign"

(Continued at foot of column 3)

TELEVISION NOTES

The Theatrical Garden Party

By "THE SEER"

THE television mobile units will again break fresh ground when they take viewers to the scene of two most interesting events early in June: one of strong appeal to lovers of sport, and the other a colourful and entertaining function of much wider interest.

On the afternoon of June 1 television cameras will be taken for the first time to a golf course to see part of a match between Reg. Whitcombe and Bobby Locke, the South African champion, to be played at Coombe Hill, Surrey, some nine miles from Hyde Park Corner. Three cameras, two of which will be mobile, will be so disposed as to permit the televising of as much of the game as possible. While Whitcombe and Locke are playing the first five holes Archie Compston will be at Coombe Hill to give a demonstration to viewers of how he manipulates various clubs. Following this, a *résumé* of the play over the first five holes will be given, and then the cameras will follow Whitcombe and Locke playing the sixth hole—which is a short one—driving from the seventh tee, approaching and putting the eighth hole, and playing the ninth, which is again a short hole.

Close-up views of the golfers will allow their different methods of play to be followed, and, as the greens of Coombe Hill are notoriously difficult, it should be interesting to watch the careful way in which professional golfers take their putts. Bernard Darwin will give the commentary.

* * * *

The other first-time programme will afford viewers the opportunity of "attending" the Theatrical Garden Party at Ranelagh *via* the medium of television. On the afternoon of June 6 television cameras will roam the gardens and sideshows and give viewers the impression of being right in the midst of the throng of famous stage and screen artists who attend this annual function held in aid of theatrical charities.

The transmission will begin with the opening ceremony by Mr. Noel Coward, President of the Actors' Orphanage; a visit will be paid to the Tyrolese Beer Garden for an excerpt from the Ivor Novello show *The Dancing Years*, and then will follow a tour of the sideshows. Fortunes will be told, interesting personalities interviewed, and a balloon race held. A balloon will be bought on behalf of viewers, inflated with gas, and released. The balloon which descends at the greatest distance from Ranelagh brings a prize to its owner.

* * * *

Plays to be televised in the near future include *The Great Adventure*, by Arnold Bennett, an amusing comedy concerning the career of a great painter who shuns publicity; *The Insect Play*, by Karel Capek, translated by Paul Selver (the cast including Wilfred Grantham, Edmund Willard, Pamela Standish, Maire O'Neill, Frank Birch, and Rupert Bruce-Lockhart); G. H. Grimaldi's *Behind the Schemes*, a comedy on newspaper life; *The Anatomist*, a comedy of Knox, Burke, and Hare and the West Port murders, by James Bridie; the first P. G. Wodehouse play to be televised, *Good Morning, Bill*; and Frank Vosper's thriller, *Murder on the Second Floor*.

* * * *

"If I were a Millionaire!" How often does one cogitate on the remote possibilities of such a miracle happening, and the even more remote chances of life happiness it would bring. Five people in widely diverse walks of life will come to the Alexandra Palace studios on June 3 to escape from reality for half an hour and will

tell how they would spend one million pounds. They are Professor H. Levy, the scientist; Oliver St. John Gogarty, the Irish poet; Helen Simpson, the novelist; Clare Sheridan, the sculptor; and taxi-driver Herbert Hodge.

(Continued from column 3)

shake one's whole body. Cyril Fletcher, Gillie Potter, Stanelli, and the late Nelson Keys, amongst many others, have all registered their "belly laughs" *via* television, and we viewers are looking forward to many more mirthful explosions in the coming programmes. Generally speaking, it seems that comedians who specialise in cabaret work "come over" best on television. The contact with the viewing audience is really just as intimate over the cathode-ray tubes as it is over the restaurant tables.

PROGRAMMES

Vision : 45 Mc/s (6.67 m.); Sound, 41.5 Mc/s (7.23 m.). All programme times shown below are approximate. From 11.0 a.m. to 12 noon each weekday, except on Monday, films intended for demonstration purposes will be shown. Should the television programme extend beyond 10.45 p.m. a recorded news bulletin will be given at the end of the programme, except on Sundays.

SUNDAY, May 28

3.0 p.m.—The Hotchkiss Marionettes.
3.15—Cartoon Film: "Mickey's Good Deed."
3.20—Cartoons by Harry Rutherford.
3.30—Film: "Zoo and You," with Mabel Constanduros.
3.40—Marcella Salzer.
3.55—4.5—British Movietonews.
7.45—National Programme (sound only).
9.5—10.35—"First Stop North," new play by Nicholas Phipps, from the King's Theatre, Hammersmith.

MONDAY, May 29

3.0 p.m.—Ray Ventura et Ses Collegiens.
3.35—Gaumont-British News.
3.45—4.10—Polo, from Hurlingham.
8.0—National Programme (sound only).
9.0—"Fantastic Garden."
9.30—10.30—Western Film: "The Fighting Texan."

TUESDAY, May 30

3.0-4.30 p.m.—"The Great Adventure," play by Arnold Bennett.
8.0—National Programme (sound only).
9.0-10.30—"The Insect Play," by Karel Capek.

WEDNESDAY, May 31

3.0-4.30 p.m.—"Behind the Schemes," by George H. Grimaldi.
8.15—National Programme (sound only).
9.0—Cabaret Cruise.
9.45—British Movietonews.
9.55—Sunday in the Country.
10.15—Cartoon Film: "Goddess of Spring."
10.20—Pouishnoff (Pfe.).
10.50-11.10—News Bulletin.

THURSDAY, June 1

3.0 p.m.—"Picture Page."
3.20-4.0—Golf demonstration.
8.0—National Programme (sound only).
9.0—Ray Ventura et Ses Collegiens.
9.35—Gaumont-British News.
9.45-10.15—"Picture Page."

FRIDAY, June 2

3.0 p.m.—Cabaret Cruise.
3.45—Cartoon Film: "Mickey's Good Deed."
3.50-4.0—Gaumont-British News.
8.0—National Programme (sound only).
9.0-10.30—"The Anatomist," comedy of Knox, Burke, and Hare, and the West Port murders, by James Bridie.

SATURDAY, June 3

2.55-4.0 p.m.—London Fire Brigade Display.
8.0—Regional Programme (sound only).
9.0—Scenes from the "Dorchester Floor Show."
9.30—Gaumont-British News.
9.40—Tennis Demonstration.
9.55—Cartoon Film: "Mickey's Good Deed."
10.0-10.30—"If I Were a Millionaire," with Professor H. Levy, Oliver St. John Gogarty, Helen Simpson, Clare Sheridan, and Herbert Hodge.

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A Viewer's Point of View

The Chronicles of an Ordinary Man-in-the-Street who has become a Regular Viewer of Television.

IT did not surprise me that the News Reels I were rated high in order of preference as programme material in the recent Television Questionnaire. News reels appeal particularly to the occasional and to the new viewer, and are possibly the most important use to which the cinematograph is put in the television service—excepting, perhaps, the ingenious film scenes that are sometimes worked into the plays otherwise acted in the Alexandra Palace studios. Occasionally it is quite difficult to pick out which is film and which is "A.P." Generally, however, the subject-matter of the presumed film scene, together with the slight unsteadiness that seems to be inevitable in the cinema process, give the game away.

Film Revivals

Recently we were treated to a few selections from very old Charles Chaplin silent films, with a "period" musical accompaniment on a piano. The photographic and technical side of these films compared badly with present-day efforts, of course, but their television presentation was none the less interesting—and amusing! A few more revivals of old silent films would be welcome. Many of us missed seeing such milestones of "movie" technique as *The Birth of a Nation* and *Intolerance*, or the great Italian film *Cabiria*—great films of twenty or more years ago. Then there are the big films of the last days of the silent screen, now ten years old, such as *Ben Hur*, *The Gold Rush*, and *Captain Blood*. All of these films are surely not so badly "dated" in production values as to make them useless as modern entertainment? With a good musical score, and televised at their correct speed of projection, a few of the better silent films should still be capable of giving us some of the satisfaction that they did when we used to have to pay ninepence to go into a cinema instead of the modern high-class entrance fees of 2s. 5d. and 3s. 6d.

Slap-Stick Comedy

A style of humour that was the mainstay of the old slapstick-comedy films still holds its own; I refer to the variations of the "dignity-caught-napping" type of humour that are the province—or rather, target—of the custard pie. Richard Hearne's sketch, *Take Two Eggs*, televised last week, is a modern form of the old Keystone custard-pie-throwing comedy, in which the consumable stage properties (or ammunition) included dough, chocolate cake, a trout, eggs, treacle, and water, most of which found their way on to the faces or clothes of Richard Hearne and George Nelson. My entire household, together with two or three friends who had happened to call, literally shrieked with joy at this sketch, which would seem to contain all the correct ingredients for television broad comedy. Apart from the excellence of the sketch itself, the multitude of pots and pans, stoves and other impedimenta that furnished Mr. Hearne's kitchen seemed to be exactly the type of "scenery" that registers well on television. Charles Heslop's "In the Barber's Chair" is another regular item on the programmes which uses a number of stage properties that might be described as "photogenic."

Hollywood magnates are said to put a high value on any scene that produces from an audience a "belly laugh," which is the somewhat vulgar (yet accurate) description of the spontaneous, uncontrolled laughter that seems to

(Continued in column 2)

BBC ENGINEERING SERIES

Short-Wave Transmitting Aerials

By E. W. HAYES, Graduate I.E.E., Maintenance Engineer,
BBC Transmitting Station, Daventry

The design of a short-wave transmitting aerial presents a number of interesting problems which may be summarised as follows:—

- The energy radiated should be confined to as narrow a beam as is required for the particular service.
- The angle of incidence to the E Region should be controllable.
- It should be capable of dissipating the energy fed into it without the risk of electrical failure by current heating or by corona discharge.
- Mechanically it must be strong enough to resist successfully the greatest wind and ice loads to which it might be subjected.

The subject of radio-frequency feeder lines was discussed in an article in this series on April 14, 1939.

* * * * *

IT is fortunate that at the high frequencies used for long-distance communication, short lengths of wire will resonate and become efficient radiators of high-frequency energy. Many complex forms of aerial arrays with highly specialised functions are thus possible in a relatively small space. Most of these arrays can be resolved, however, into a number of half-wave elements which may be disposed either vertically or horizontally, and which are arranged so as to ensure that the energy radiated by all individual elements is additive in the desired direction, while cancellation takes place in other directions. Another type of array obtains this result by the existence of a travelling wave, and several forms of both types are used, or have been used, at the BBC Empire Station at Daventry.

The practical advantages of the non-resonant types are well known, and the usefulness of an array which will accept and radiate efficiently any one of a number of frequencies allotted to a station is obvious at first sight. On consideration, however, of the conditions applying at a

high-power broadcasting station the balance becomes more in favour of the resonant type.

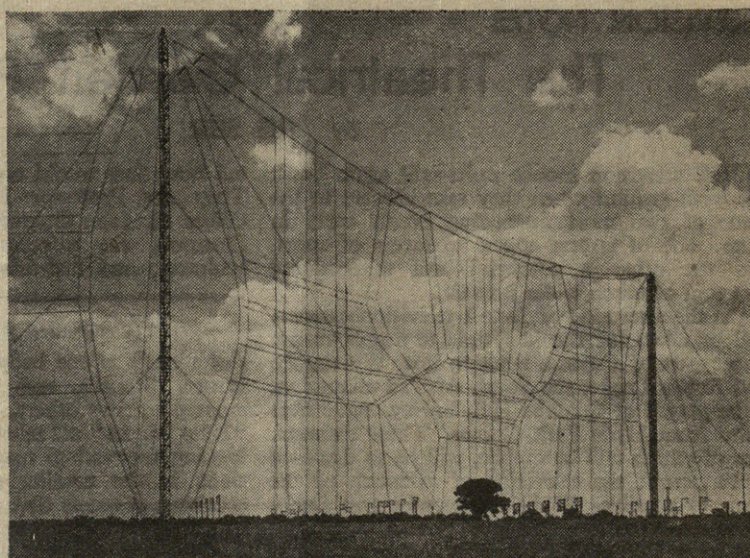
In the first place, it is found that three or more frequencies have to be radiated simultaneously in the same direction during any one transmission period. Three or more arrays must therefore be used at the same time and it is clear that this number could not be reduced even if the arrays were of non-resonant type. Secondly, although means exist making it possible to match an array to a feeder line at a number of frequencies this entails the expense and inconvenience of a complex switching system.

Finally, even if the feeder termination is satisfactorily made, high-frequency feeder lines in practice are rarely suitable for treatment as continuous transmission lines, and the loading effects of, for example, line-insulator capacity and changes of direction of the line are determined by the particular frequency being carried and must be balanced at that frequency.

Non-resonant types which require a terminating resistance to suppress backward radiation are unsuitable owing to the difficulty of providing the necessary resistance of constant characteristics at high power and the method is wasteful in power. The array is less efficient, therefore, than other types.

A series of tests and experiments, described in detail in a paper recently read before the I.E.E. by Messrs. L. W. Hayes and B. N. MacLarty, have led to the adoption at the Empire Station of the stacked horizontal-element array for most purposes, while short-distance services are covered by dipoles or "horizontal-V" arrays.

The tests incorporated comparative tests of many types of array which were made to carry the normal Empire Services. For details of these tests the reader is referred to the original paper,



Daventry 17 m., 14 m., and 19 m. aerials with reflectors.

as space is not available here for more than the conclusions drawn from them, namely:—

- Horizontal arrays are better than vertical arrays for the Empire Service.
- It is probably unnecessary for most purposes to consider the use of more than four elements one above the other in the vertical plane.
- The bottom element should, generally, be not less than one wavelength above ground, although in certain cases it may be desirable to increase this distance to two wavelengths, while for other services, 0.3 wavelength may be more suitable.

A unit of a stacked array has the general form shown diagrammatically in Fig. 1 (a), and comprises eight half-wave elements fed in uniphase by a parallel-wire feeder. The standard type array contains four such units and has, therefore, a total of 32 elements.

Let us consider how an array of this kind will satisfy the requirements listed above, first with reference to its directivity.

The width of the radiated beam required is determined by the angle subtended by the area it is required to serve. New Zealand, for example, subtends about 55° and the high directivity of a point-to-point array is obviously not wanted. The width being determined, the theoretical polar diagram of the necessary array can be calculated. The half-wave element which forms the sub-unit of the array is said to have a "figure-8" diagram in the horizontal plane.

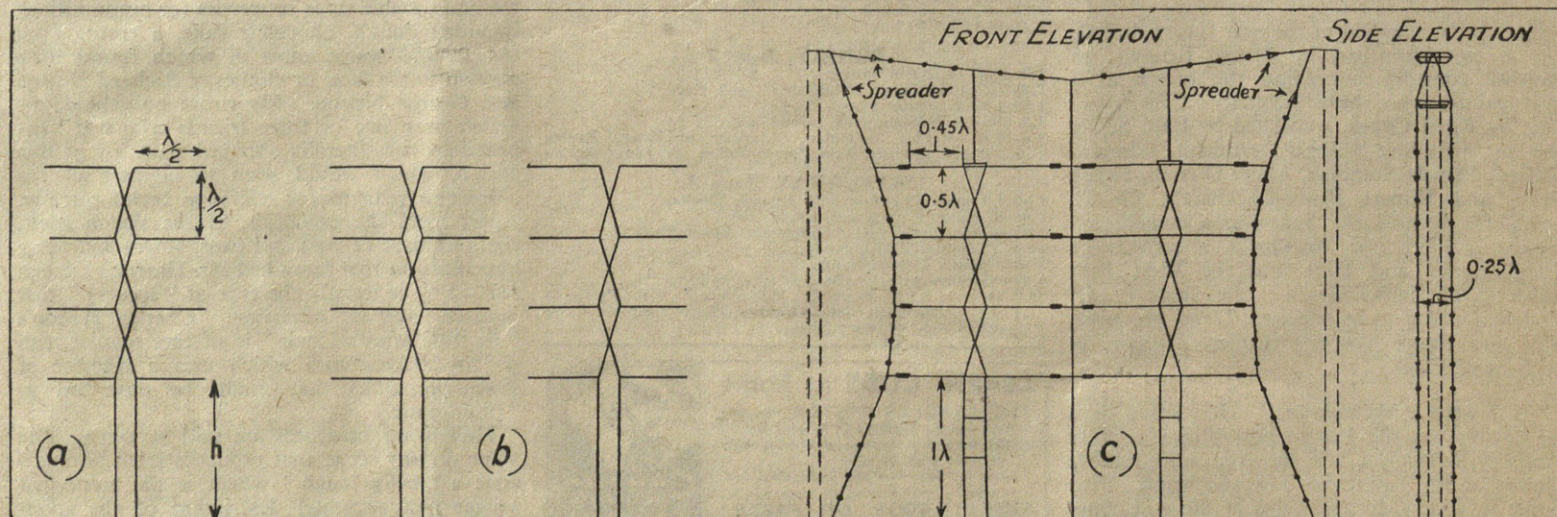


Fig. 1—(a) Stacked array unit; (b) two-unit array; (c) typical four-unit array.

In combining eight half-wave elements to form the array unit, Fig. 1 (a), a power distribution diagram is obtained with a beam of 68° measured between bearings on which the field-strength is 6 dB down on the maximum-powered bearing. The direction of maximum radiation in the horizontal plane will be normal to the plane containing the elements.

If greater concentration is permissible, additional array units may be added, as in Fig. 1 (b), leading to greater gain in the required direction, while the addition of a reflector becomes possible if service is required in one direction only. In Table I, columns 2 and 3, are listed the theoretical directivity and beam width of arrays commonly used at the Empire Station, and a study of these figures shows the importance of the short-wave array as a link in the chain of communication.

TABLE I

(1) Aerial type	(2) Directivity*	(3) Width of main lobe to 6 dB down	(4) Projection angle
One unit $H = \lambda$	42	$\pm 34^\circ$	7.8°
One unit & reflector $H = \lambda$	77.7	$\pm 34^\circ$	7.8°
Two units $H = \lambda$	80	$\pm 18^\circ$	7.8°
Two units & reflector $H = \lambda$	148	$\pm 18^\circ$	7.8°
Two units $H = 2\lambda$	100	$\pm 18^\circ$	5.0°
Two units & reflector $H = 2\lambda$	185	$\pm 18^\circ$	5.0°

* Ratio of powers to be supplied respectively to a hypothetical aerial, radiating uniformly in all directions, and to a directive aerial in order to obtain equal field intensities at a distant point in the most favoured direction of the directive aerial. Reflector assumed 85 per cent. efficient in forward direction.

It will be seen that a gain of nearly 3 dB in the forward direction is obtained on the arrays provided with a reflector. Perhaps an even more important purpose served by the reflector is the elimination of "back echo" at the distant receiver. This echo effect in a distant receiver is due to the reception of the same signal at times separated by a fraction of a second. This occurs when propagation conditions are good along the complete great-circle path joining the transmitter and receiver. Under these conditions radiation will reach, say, India, in one-fiftieth of a second in the forward direction by the short path, while the wave travelling backwards *via* the West Indies will arrive nearly one-tenth of a second later.

The projection angle of the major lobe in the vertical plane, measured from the horizontal, is listed in Table I, column 4; it is determined by the height of the array above ground. It is found that the angle corresponding to one wavelength above ground is usually satisfactory, but for distances of only 2,000 miles a height of one half-wavelength is superior. For still shorter distances, an aerial with a projection angle of 30° or more is required, and for this purpose, single half-wave elements elevated one half-wavelength above the ground have been used with success.

However suitable an array may be in other ways it is useless if it is unable to dissipate the transmitter's output of energy without risk of electrical failure. Many arrays of otherwise admirable characteristics have to be rejected when a radio-frequency input to the array of 100 kW modulated at 100 per cent. may need to be dissipated. On this count, the stacked array gains many points.

ELECTRICAL CHARACTERISTICS

The simple form of single unit array, Fig. 1 (a), has eight half-wave elements, so that for a carrier input of 100 kW each element can be made to dissipate only 12.5 kW.

The precautions to be observed are, first, that the power is equally distributed between elements and, second, that the elements are fed in uniphase. On both these points will depend the factor of safety as well as the performance of the array. The necessary conditions are fulfilled by careful attention to the accuracy of the physical dimensions of each section of the array and the avoidance of reactive loads across the feeder line. By these measures each element is made to form a resistance load and the pairs of elements are fed at exactly 180° intervals along the feeder.

The power distribution in such an array has been tested experimentally by the insertion of radio-frequency ammeters in the centres of the elements of a service array. The meters were read by telescope when the array was energised, and complete symmetry of power distribution was observed.

The length of element used at Daventry is from 0.45 wavelength to 0.46 wavelength, the precise figure being determined by the frequency. These figures refer to elements made of No. 12 S.W.G. wire with end insulators of 1.6 and 2.0 μF capacitance.

The interstack feeder can be made a complete physical half-wavelength only if care is taken to minimise the loading effect of the spacing-insulator capacitance. The insulators are kept to a minimum in number and capacitance, and are attached to the line with 90° separation so that they are largely self-correcting.

Any loading, owing to insulator capacitance across the interstack feeders, will have the effect of changing the projection angle from the figure intended.

Let us consider now the vertical feeder line connecting the array to the transmission line. This section carries the full power input to the array and careful attention to voltage distribution is essential if corona discharge is to be avoided.

We have the equation:—

$$Z_s = Z_0 \frac{Z_0 + Z_r \coth Pl}{Z_r + Z_0 \coth Pl} \dots \dots \dots (1)$$

$$= \frac{Z_0 (Z_0 - j Z_r \cot \frac{2\pi l}{\lambda})}{Z_r - j Z_0 \cot \frac{2\pi l}{\lambda}}$$

where P = Propagation constant equals approximately $j\omega\sqrt{LC}$; l = Distance from the load; Z_s = Sending-end impedance; Z_r = Receiving-end impedance; and Z_0 = Characteristic impedance of the line.

It follows that the impedance Z_s varies at quarter-wave intervals between—

$$Z_s = \frac{Z_0^2}{Z_r} \text{ and } Z_s = Z_r \dots \dots \dots (2)$$

Then, because the angle of the impedances at these points is zero, and assuming no power loss between the node and antinode—

$$\frac{E_1^2}{Z_0^2} = \frac{E_2^2}{Z_r}$$

where E_1 and E_2 are the voltages at the points of maximum and minimum impedance. Therefore

$$\frac{E_1}{E_2} = \frac{Z_0}{Z_r} \dots \dots \dots (3)$$

That Z_r must be practically equal to Z_0 is now clear, as any divergence of the ratio Z_0/Z_r from unity is attended with an increase of either E_1 or E_2 . The maximum permissible value of Z_0/Z_r is taken as about 1.4.

The surge impedance of the feeder is fixed by

its physical characteristics from the expression:

$$Z_0 = 276 \log_{10} \frac{2D}{d}$$

where Z_0 = Surge impedance; D = Spacing of wires; and d = Diameter of wire.

These characteristics are selected as suitable for the transmission of power efficiently and economically, and at Daventry wires of No. 6 S.W.G. copper are used, spaced 12 inches apart. This gives a surge impedance of 550 ohms, and from equation (3) it follows that the array must have an input impedance of this order.

Using the lengths of elements given above, it is found that the highest excursion of impedance (equation 2) occurs with Z_s equal to approximately 750 ohms. This can be reduced further by the use of feeder-spacing insulators bearing corona rings of greater diameter than normal at the appropriate places—i.e., where the real part of equation (1) is equal to the surge impedance of the line.

Alternatively, a length of transmission line may be used for matching in the manner described originally by Sterba and Feldman, to which reference is made later.

It will be found that errors in length of element of only a few per cent. will result in a totally different input impedance. Maximum impedance along the line may exceed six times the surge impedance and the array will be quite unsuitable for high-power service, owing to the very high voltages developed on the vertical feeders. This is due, in some measure, to the electrical characteristics of the elements. From the expression, neglecting the radiation resistance:

$$Z_s = -jZ_0 \cot \frac{2\pi l}{\lambda} \text{ (where } l = \text{Length of element)}$$

it will be seen that the element will present a reactive load if its length is greater or less than the critical value which makes it electrically exactly one half-wavelength. An equivalent parallel reactance across the feeders appears, therefore, and with it a serious defect in the system. This cannot be corrected by matching at the base of the feeders in the normal manner, and adjustment in the length of elements is necessary.

Where the array is one of the type having two or more units, each bay is matched to the feeder line in the manner described earlier and the two bays are then paralleled. The resultant $Z_0/2$ junction is then matched to the main transmission line.

In paralleling two bays it is essential to make the junction electrically equidistant from each set of radiators. Similarly, care must be taken that the phase of the driving power is not turned through 180° by reversal of the leads to one of the bays. Errors of this kind would result in a phase difference between the energy fed to the individual bays, and in the swinging of the direction of radiation due to the angular lead given to one bay or the other.

The present article has dealt with the first three of the problems enumerated at the beginning. The fourth problem, also the matching and slewing of aerial arrays, will form the subject of another article in the near future.

The "BBC ENGINEERING SERIES" consists of authoritative technical articles dealing with certain phases of broadcasting. Research and development are constantly going on and interesting information is continually being collected, much of which has never been published.

Next week's article will deal with a further section of the BBC SOUND-RECORDING SERVICE.

Resonant Short-Wave Aerials

RECENT correspondence in WORLD-RADIO has shown how 10 m. reception can be improved by using an aerial 16 ft. 6 in. long. The reason for the choice of this particular length may, at first, be puzzling to many readers. It is bound up with the question of resonance and resonant aerials.

When the tuning condenser of a receiver is adjusted to give maximum signal strength from a station, the circuit—consisting of coil and condenser—is being tuned to resonance at the frequency of the incoming signal. When the circuit is exactly at resonance the greatest output (strongest signal) is obtained from it. The principle implied here is true of any circuit containing inductance and capacity. At the resonant frequency, which is determined by the value of the inductance and capacity used, the greatest power will be developed in the circuit by an incoming wave.

Every aerial has inductance and capacity. They are not in an easily recognisable form—like the coil and the condenser—but they are spread out over the length of the wire. Since every aerial has these attributes, it is plain that each aerial must have a resonant frequency, to which it is tuned by its natural values of inductance and capacity. Because these properties are distributed along the aerial it follows that if a piece of the wire is cut off, the resonant frequency will become higher, since both components have been reduced. Comparing the aerial again to a receiver circuit, this is just the same as simultaneously removing some turns from the coil and decreasing the capacity of the tuning condenser.

A moment's thought will show that for each

frequency there should be a particular length of aerial which is resonant and which will extract the maximum power from wireless signals arriving on that frequency. This is, in fact, the case, and the physical length of an aerial suspended free in space is almost exactly half the fundamental resonant wavelength. Thus, for example, a resonant aerial for 50 m. reception will be approximately 25 m. long. It is at once apparent why these aerials have become known as "half-wave" aerials.

It is important to notice that this argument applies only to aerials which are not "earthed." An aerial which is "earthed" at one end—through a receiver coupling coil, for example—resonates at a wavelength equal to four times its physical length, and is, therefore, known as a "quarter-wave" aerial. From its pioneer use by Marconi it is also known as the Marconi aerial. The earthed quarter-wave aerial, however, does not invariably give such a marked improvement as the half-wave type on short-wave reception. For that reason the Marconi aerial is not dealt with here at any greater length, but for the experimentally-minded listener it offers scope for investigation, particularly on the longer short waves where the question of space available may become a serious problem.

It has been stated previously that the length of a so-called "half-wave" aerial is not exactly half a wavelength. One of the principal reasons for this is that a practical aerial is not suspended perfectly "free in space," and therefore has not perfectly distributed inductance and capacity. Table 1 gives the working lengths, in feet and inches, of half-wave aerials which resonate at wavelengths in the principal short-wave bands.

The length is not critical to a few inches, since the resonance response curve is not sharp. For any waveband not given in the table, the length, in feet, of a half-wave aerial is obtained to a satisfactory approximation on multiplying the wavelength, in metres, by 1.57. Incidentally, calculation by this formula shows why half-wave aerials are suitable only for use on short wave-lengths. A half-wave aerial for 300 metres would have to be over 150 yards long, and a similar aerial on long waves would stretch for about half a mile!

Table 1. LENGTHS OF HALF-WAVE AERIALS

Waveband	Aerial Length
49.5 m.	77 ft. 9 in.
42 m.	66 ft.
31.5 m.	49 ft. 6 in.
25.5 m.	40 ft.
21 m.	33 ft.
19.7 m.	31 ft.
16.9 m.	26 ft. 6 in.
13.9 m.	22 ft.
10.5 m.	16 ft. 6 in.

The figures given in the table indicate the lengths from the aerial terminal of the receiver to the far end of the wire. Strictly speaking, the argument is true only for wires which run in a straight line. However, it remains very nearly true even if there is a bend in the wire, providing the angle contained by the bend is not less than 90 degrees. The aerials may be erected horizontally or vertically.

The arrangement so far described has been of the fundamental single half-wave type. The aerial also remains resonant, however, if its length is increased to any number of complete half waves. This means that on 21 m., for example, either the fundamental length of 33 ft. may be used, or 66 ft. or 99 ft., and so on.

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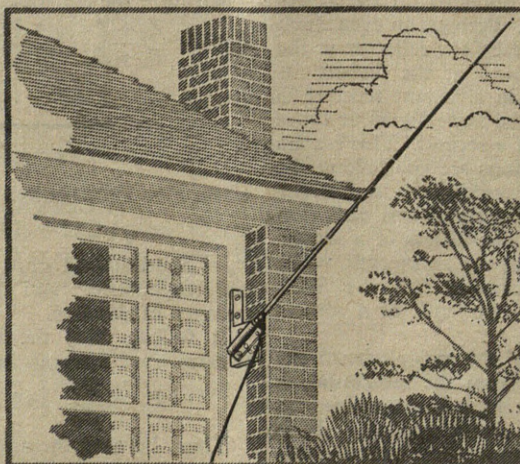
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This also means that an aerial designed to be resonant at one wavelength will be resonant at all the harmonics of that wavelength. A 33 ft. aerial, which is half a wavelength long at 21 m., will carry two half waves on 10.5 m., so that it may be used as a resonant aerial for both wavelengths.

Another interesting point concerning resonant aerials arises when the length is increased beyond a single half wave. A vertical aerial, whatever its length in half waves, will receive equally well from all directions. Every horizontal resonant aerial, however, has directional properties which vary according to the number of half waves in use. The simple single horizontal half-wave aerial receives best from directions at right angles to the direction of the length of the wire—i.e., if the wire lies north and south it will receive best from those stations which lie east and west. On this aerial, reception from directions in line with the run of the wire will be somewhat weaker than reception from other directions. When the length of the aerial is increased in terms of half waves the directional properties become more pronounced, and the angles of directivity change. Table 2 gives figures indicating the angles of best and minimum reception in degrees relative to the direction in which the wire runs. The aerial is considered to lie along the 0 to 180 degree line.

Table 2. DIRECTIVITY OF AERIALS

Aerial Length	Maximum reception (degrees)	Minimum reception (degrees)
1 half wave	90: 270	0: 180
2 half waves	50: 130: 230: 310	90: 270
3 half waves	40: 90: 140: 220: 270: 320	70: 110: 250: 290
4 half waves	30: 75: 105: 150: 210: 255: 285: 330	60: 90: 120: 240: 270: 300

In practice, if a receiving aerial is only one or two half waves long the directional properties can be almost ignored. If the aerial contains more than two half waves it should be laid out, if possible, so that the lobes of maximum reception coincide either with the particular country which it is wished to hear, or to fall over general areas which contain interesting stations. A world map drawn on a great circle projection is useful in this connexion, though bearings to a near enough approximation may be obtained from the article, "Great Circle Paths" in WORLD-RADIO for December 23, 1938.

The question of height, as well as of length, is of considerable importance in the design of resonant aerials. It is an interesting fact, discovered by experiment, that short-wave signals from the most distant stations arrive at an angle of between 10 and 30 degrees to the horizontal. What we may call the "vertical response" of a resonant aerial varies with its height above the ground, and the aerial height for maximum reception at low angles should not be less than half a wavelength at the resonant frequency. In any case, however, these resonant aerials, like any other short-wave aerials, should be placed high enough to be free from shielding.

Although they are designed for maximum results on a particular frequency and its harmonics, these aerials will give reception at other wavelengths quite comparable to that on an ordinary aerial, and since the resonance curves are not sharp, one resonant aerial may often be made to serve for two wavelengths which are not in strict harmonic relationship. An aerial 77 ft. 9 in. long, for instance, will have its fundamental resonance on the 49 m. band and will be sufficiently resonant to give improved results on 25 m. stations. Similarly, an aerial which is resonant at 31 m. will be almost resonant on 16 m.

W. A. R.

Short-Wave News-Reel

Compèred by "RANGER"

Many readers made use of their short-wave sets to obtain news of the important events taking place in Canada. I thank all who sent in contributions and have selected the following account of their Majesties' first day in Canada.

A ROYAL DAY

By means of short waves a very full account of their Majesties' first day in Canada was obtained. First, from W2XE, came the relay at 15.30 B.S.T. of the scenes as the King and Queen stepped ashore at Wolfe's Cove, the commentary at times being almost drowned out by the noise of the crowd and the roar of the Royal salutes. As the Royal party drove to the Legislative Buildings through the streets, the crowd surged forward, eager to see the procession. They were kept from going too far by soldiers and Quebec police who, we were told, were in black with white belt, hat, and gloves—a very striking uniform.

From W3XL, at 16.00, we heard a further account of the Royal visit and were taken to the Red Room of Parliament House where we were privileged to hear many distinguished visitors being introduced to their Majesties.

This short ceremony over, we once again followed the King and Queen as they drove to the Citadel. It was at this point that we heard a personal message from the King to his Captains, conveyed *via* radio. In it his Majesty thanked the men for what they had done and said both the Queen and himself were looking forward to meeting the Captains later in the tour.

As a climax, W2XAD, at 19.00, took listeners to the ballroom of the Château Frontenac to hear the speeches at the luncheon in honour of the Royal visit. After the toasts we first of all heard Mr. Mackenzie King, who officially welcomed the King and Queen to Canada. Next came a short speech in French from Senator Dandurand, of the Senate, in which he spoke of the close co-operation between France and Britain.

Then came the first speech by the King in his present tour. He spoke of how both the

Queen and himself had been deeply moved by the tremendous welcome given to them. He was, he said, the first British King to cross the Atlantic and land on North American soil, it being fitting that the first visit of a reigning monarch to his Empire should be to the senior Dominion. Following this, his Majesty, in fluent French, answered the welcome of Senator Dandurand, commenting on how happily French and English lived side by side in Quebec.

With the playing of "God Save the King" this broadcast concluded, although by means of the Press Radio Bureau we kept in touch, the remainder of the day, with the Royal couple.

Aberdeen.

A. L. S. A.

AUSTRALIAN PARROTS

Here is an account of a broadcast heard from our old friend, VK2ME, at the other side of the world.

AN interesting talk was heard from VK2ME, at 08.00 on May 14. At 07.50 I tuned in a selection by Troise and his Mandoliers. Then came the five o'clock chimes followed by the talk.

"Parrots," we were told, "prefer the Southern Hemisphere." In Australia are many different kinds. Their plumages are magnificent and resemble a rainbow splashed lavishly over their bodies. Others have colours that merge into the surroundings, forming a complete camouflage.

One of the largest of the parrot species in Australia is the cockatoo, and it is distinguished from the ordinary parrot by its higher bill, and a long, broad, and rounded tail. The name is derived from its harsh cry. These birds are generally white, often tinged with red, orange, and other colours. They have large heads, crowned by crests of yellow and pink feathers, which they can raise at will, and expand like a fan. Unlike parrots, they speak very few words.

Then followed a request for reports, and my session with "The Voice of Australia" concluded with "Swing High, Swing Low" played by Louis Levy and his Symphony Orchestra.

Bristol.

W. J. C.

Below 100 Metres

By "NORTHERNER"

(May 14-20)

RESULTS, especially during the late evenings, have been much better this week, but afternoon listening has been rather dull. Conditions during the early mornings, too, were much improved, and some interesting DX work should be possible very soon.

On Sunday, PMN was R5 at 16.00; and VUD2 (31.28 m.) was R7 at 17.35. W3XL and W2XE were both R3-4 at 16.15, but very faint at 22.00. An interesting talk on "Antiquities and the Discovery of America by Icelanders" was heard over TFF at 19.50. R9. JLU3 (19.82 m.) was R4 during a news summary in English at 21.00. W2XAD was R4 at 21.15; and VLR3 (25.25 m.) R3 an hour later. "Locals" on 25 m. and 31 m. were very strong then.

During Monday evening, static was rather heavy and troublesome. W2XAD was R4 by 20.10; but the 16 m. Americans were inaudible. W1XAL (25.45 m.) was also R4 at 20.50, but was slightly stronger at 23.15 during the news review. XGOY was excellent at 23.00 (R7-8); and W8XK (25.26 m.), with South American programme, was R6. ZP14 (25.6 m.) was R7 at 23.30, and CD1190, Valdivia, was R4. An American station, probably W2XE on 19.65 m., was audible at this time but spoilt by static.

Wednesday was an interesting day. W3XL and W2XE on 16 m. were just audible at 18.45, and

at similar strength at 19.30. VQ7LO was R4, peaking to R5 after 19.15, the programme consisting of native music. ZRH (49.94 m.) was faint then. I2RO3 (31.15 m.) was R9 plus soon after when a news bulletin in English was available. IABA, Addis Ababa (31.09 m.), was heard with difficulty owing to neighbouring stations. W2XAD and JLU3 were both available around 20.50 (R4). An excellent talk on "Fuel Oil" was heard over W1XAL at 22.25, strength R5. At 22.30, W8XK (25.26 m.) had a special rebroadcast of the arrival of their Majesties in Canada (R4). "Radio Continental de Montevideo," on 31 m., was quite good soon after (R6-7). Familiar classics and waltzes were an enjoyable feature of the programme heard. W3XAL (31.02 m.) was R6.

At 23.15 on Thursday, W1XAL was R7, XGOY R8-9, and ZP14 was R6 a little later. W1XK was R5 at 23.40, but subject to interference. Soon after, "Radio Continental" was R6, CS2WA R9, and VP3BG and PRA8 were both R6. After midnight, PSH, PMN, W1XK, and W3XAL were logged.

Static was again a source of trouble on Friday. VUD2 (31.28 m.) and PMN were as usual weak in the afternoon. The 16, 19, and 25 m. Americans were much better than on previous days.

Between 04.30 and 06.00 on Saturday the following were heard at good strengths: W4XB, W3XAL (31.02 m.), LRX, W1XK, HJ3ABX (announcing as "The Voice of Colombia"), OAX4Z with call "Radio Nacional del Peru," W2XE (48.62 m.), and W8XK (48.86 m.). W3XAU (49.5 m.) was only R2-3.

High-Frequency Broadcasting Stations of U.S.A.

WE give below a complete list of the U.S.A. high-frequency (ultra-short-wave) broadcasting stations authorised by the Federal Communications Commission as at January 1, 1939.

While provision has been made for three groups of frequencies—ranging from 31.60 Mc/s (9.494 m.) to 500 Mc/s (0.6 m.)—the stations here listed, with the exceptions indicated, fall within two groups only, as follows:—

Group C: 31.60, 35.60, and 41.00 Mc/s

Group E: 41.60, 86.50, and 110.00 Mc/s

Call Letters	Licensee	Power (Watts)	Freq. (Mc/s) or Group
Alpine, N.J.	W2XMN Edwin H. Armstrong	40,000	E
Alpine, N.J.	W2XSN Paul Godley	1,000	41.80
Akron, Ohio	W8XOY Allen T. Simmons (WADC)	100	C
Albany, N.Y.	W2XOY General Electric Co. (WGY)	150	C
Baltimore, Md.	W3XES Monumental Radio Co. (WCAO)	300	C
Baltimore, Md.	W3XEY Baltimore Radio Show (WFBR)	100	C
Boston, Mass.	*W1XER Yankee Network	500	C
Boston, Mass.	†W1XOJ Yankee Network	50,000	41.20
Boston, Mass.	W1XKA Westinghouse E. & M. Co. (WBZ)	50	C
Buffalo, N.Y.	W8XH WBN, Inc.	100	C
Charleston, W.Va.	W8XNO Charleston Broadcasting Co. (WCHS)	50	26.10
Chattanooga, Tenn.	W4XBW WDOO Broadcasting Corp.	100	C
Chicago, Ill.	W9XBS National Broadcasting Co. (WMAQ)	100	C
Cincinnati, Ohio	W8XNU The Crosley Corp. (WLW)	1,000	25.05
Cleveland, Ohio	W8XNT Radio Air Service Corp. (WHK)	50	C
Dallas, Tex.	W5XD A. H. Belo Corp. (WFAA)	100	C
Denver, Col.	W9XLA KLZ Broadcasting Co.	100	C
Detroit, Mich.	W8XWJ Evening News Assn. (WWJ)	500	C
Harrisburg, Ill.	W9XTA Schonert Radio Service	500	26.50
Hartford, Conn.	W1XPW WDRC Inc.	1,000	40.30
Kansas City, Mo.	W9XER Midland Broadcasting Co. (KMBC)	50	C
Kansas City, Mo.	W9XA Commercial Radio Equip-ment Co.	1,000	26.45

*Transmitter located at Sargents Purchase, N.H.

†Transmitter authorised at Paxton, Mass.

Los Angeles, Cal.	W6XKG Ben S. McGlashan (KGfJ)	1,000	25.95
Los Angeles, Cal.	W6XRE Ben S. McGlashan (KGfJ)	500	E
Los Angeles, Cal.	W6XDA Columbia Broadcasting System (KNX)	100	C
Memphis, Tenn.	W4XCA Memphis Commercial Appeal Co. (WMC)	250	C
Minneapolis, Minn.	W9XHW Columbia Broadcasting System (WCCO)	50	C
Minneapolis, Minn.	W9XTC Minnesota Broadcasting Corp. (WTCN)	150	26.05
Nashville, Tenn.	W4XA National Life & Accident Ins. Co. (WSM)	1,000	C
New Bedford, Mass.	W1XEQ E. Anthony & Sons (WNBH)	100	C
New York City	W2XJI Bamberger Broadcasting Service (WOR)	100	26.30
New York City	W2XDV Columbia Broadcasting System (WABC)	50	C
New York City	W2XDG National Broadcasting Co. (WJZ)	150	38.65
New York City	W2XHG National Broadcasting Co. (WEAF)	150	C
New York City	W2XQO Knickerbocker Broadcasting Co. (WMCA)	100	26.55
New York City	W2XVP City of New York (WNYC)	1,000	26.10
Norfolk, Virginia	W3XEX WTAR Radio Corp. (WTAR)	50	26.05
Oklahoma City, Okla.	W5XAU WKY Radiophone Co.	100	C
Omaha, Neb.	W9XUY Central States Broadcasting Co. (KOIL)	100	C
Philadelphia, Pa.	W3XIR WCAU Broadcasting Co.	100	C
Pittsburgh, Pa.	W8XKA Westinghouse E. & M. Co. (KDKA)	150	C
Rochester, N.Y.	W8XAI Stromberg - Carlson Co. (WHAM)	100	C
South Bend, Ind.	W9XH South Bend Tribune (WSBT)	100	26.05
Springfield, Mass.	W1XKB Westinghouse E. & M. Co. (WBZA)	500	C
St. Louis, Mo.	W9XOK Star Times Publishing Co. (KTOK)	100	C
St. Louis, Mo.	W9XPD Pulitzer Publishing Co. (KSD)	100	C
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 † 22.15-22.45 } 49.59 m.
 * 22.45-23.00 }

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SUNDAY, May 28

EMPIRE FREQUENCIES

GSA	6.05 Mc/s	49.59 m.
GSB	9.51	31.55
GSC	9.58	31.32
GSD	11.75	25.53
GSE	11.86	25.29
GSG	15.14	19.82
GSH	17.79	16.86
GSI	21.47	13.97
GSL	15.26	19.66
GSM	21.53	13.93
GSN	6.11	49.1
GSO	11.82	25.38
GSP	15.18	19.76
GST	15.31	19.6
GTV	21.55	13.92
GRX	17.81	16.84
GRY	9.69	30.96
GRZ	9.60	31.25

The Empire Programmes are printed in outline for the convenience of overseas readers. It is recommended that listeners in Europe should tune to GRX in Transmissions 2 and 3 and to GSA or GRX in Transmission 4. Reports are welcomed.

EMPIRE

Transmission 1 (GSI, GSD, GSB, GSB, GSB)
 06.00—Big Ben; John McCormack (Tenor).
 06.30—Sports talk.
 06.40—Service (C.E.).
 07.25—News.
 07.45—"Paris Revisited."
 08.15-08.20—Big Ben; Saturday Sport.

Transmission 2 (GSJ, GSH, GSG, GSV, GSF, GRX)
 11.45—Big Ben; Light Music of Elgar.
 12.25—"An Eskdale Journey."
 13.10—Whit-Sunday Service (C.E.).
 14.15—Big Ben; News.
 14.35—Sports talk.
 14.45—Saturday Sport.
 14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSV, GSF, GRX, GSO to 17.00)
 15.00—Big Ben; London Music Festival, from Queen's Hall.
 16.35—Musical Interlude.†
 16.45—"Cards on the Table."
 17.00—Big Ben; Sunday News, Newsletter.
 17.20—Sports talk.
 17.30-18.00—J. H. Squire Celeste Octet.*

Transmission 4 (18.20-21.45 GSG, GSD, GRX, GSA; 18.20-19.45 GSI; 19.15-21.45 GSP; 19.30-21.45 GSC; 20.00-21.45 GSC; 22.00-23.55 GSF, GSG, GSD, GRX, GSA, GSA)
 18.25—Musical Interlude.†
 18.30—"Paris Revisited."
 19.00—Big Ben; Sunday News, Newsletter.
 19.20—Sports talk.
 19.30—"American Commentary," by Raymond Gram Swing.*
 19.45—Service (C.E.).
 20.45—"The Prisoner of Zenda."
 21.00-21.45—Yascha Krein's Gipsy Orchestra.
 22.05—Sunday News, Newsletter.

22.25—Sports talk.
 22.35—Victorian Melodies.*
 23.35—Millicent Silver (Pfte.).
 23.45-23.55—Big Ben; Epilogue.*

Transmission 5 (GSE, GSD, GSB, GSB, GSB)
 00.20—Service (R.C.).
 01.05—"The Prisoner of Zenda."
 01.30—Big Ben; Sunday News, Newsletter.
 01.50—Sports talk.
 02.00-02.30—Big Ben; Queen Victoria's Rifles Band.

Transmission 6 (GSD, GSC, GSB, GSB, GSB)
 03.20—Service (C.E.).
 04.20—Yascha Krein's Gipsy Orchestra.
 05.00—Big Ben; News.
 05.20-05.30—Sports Talk.

BOMBAY

(31.4 m.)
 03.30-04.30—Indian Music.
 08.00-10.00—Music; Markets.
 11.00-12.00—For Children.
 (61.48 m.)
 13.30-18.00—Music and News; at 15.15—Talk (Eng.); at 16.45—News (Eng.).

BUDAPEST

(19.52 m.)
 15.00-16.00—Military Band; Talk; Soldiers' Songs; News; Cigany Band; News (Eng.); Orchestra; Messages; Anthem.
 (32.88 m.)
 01.00-02.00 (Mon.)—Military Band; Talk; Soldiers' Songs; News; Cigany Band; News (Eng.); Messages; Orchestra; News (Slovak, Ruthenian); Anthem.

DELHI

(19.62 m.; 31.28 m.)
 03.00—Music; For Youth.
 05.15-07.30—For Women; Music.
 08.30-09.30—Indian Music.
 (31.28 m.; 60.49 m.)
 13.30-18.00—Music and News; at 16.00—"Pavitra Ganga"—Play; at 16.45—News, Talk (Eng.).

HUIZEN

(16.88 m.)
 12.10-13.10—For Asia (KRO).
 (16.88 m.; 19.71 m.)
 13.10—PHOHI Programme for the Dutch Indies.
 14.15—For the Dutch Indies (VPRO).
 (16.88 m.)
 14.35-15.35—For the Dutch Indies (KRO).
 (31.28 m.)
 19.40-19.55—For Africa (VPRO).
 20.00-21.00—For Africa (KRO).
 01.15-02.15—PHOHI Programme for the Dutch Indies.
 02.25-03.25—For America (KRO).
 03.35-03.50—For America (VPRO).

MELBOURNE

(25.25 m.)
 06.00—Armchair Chat.
 06.20—Records.
 07.00—Brass Band.
 07.30—Music for the Connoisseur, with Cyril Jenkins.
 08.30—Children's Play.
 09.00-09.15—Organ.
 (31.32 m.)
 09.30—Adventures in Music.
 10.00—Science in the News.
 10.20—News.
 10.30—Salon Orchestra and Singers.
 11.15—Play.
 12.15—International Affairs.
 12.30—Jascha and Tossy Spivakovsky (Violin and Pfte.).
 13.00—News Briefs.
 13.20-13.30—Bible Reading.
 (25.25 m.)
 21.30—News; Gym; Music.
 23.00—News; Music.
 00.30—Short Story Readings; Records.
 01.00-01.15—Service.
 03.00—Time; Music; Stocks.
 03.40-04.30—News; Music.

MOSCOW

Programme not received.

PARIS - MONDIAL

(19.68 m.)
 12.00—News (Eng., Fr.), Music.
 (16.81 m.; 19.68 m.)
 14.30-16.00—"Tartuffe" (Molière).
 (41.21 m.)
 16.15—News; Music.

17.40—News (Fr., Arabic), Music.
 20.00—News (Eng., It.), Music.
 22.30—Markets, News (Port.).
 (25.24 m.; 25.6 m.)
 00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.).
 02.30—"Tartuffe" (Molière).
 03.15-05.00—News; Music; at 04.00—News (Eng., Ger.).

PODEBRADY

Programme not received.

RADIO - NATIONS

(16.23 m.)
 17.00-17.15—Music; Essential Facts about the League of Nations (Eng.).
 (26.31 m.; 44.94 m.)
 20.30—See 17.00.
 (44.94 m.)
 20.45-21.00—Music; Talk (Fr.).
 (26.31 m.)
 01.00-01.15 (Mon.)—See 17.00.
 (32.1 m.)
 02.00-02.15—Music, Talk (Sp.).

REYKJAVIK

(24.52 m.)
 19.40-20.30—News, Talks (Eng., Ice., Dan.); Music.

ROME

(25.4 m.)
 09.15—For Soldiers and Farmers.
 10.45—News (Fr.).
 (19.61 m.)
 10.15—News (It., Eng.); Music.
 (16.84 m.; 25.4 m.)
 11.00—Mass.
 12.00-14.45—News (Eng.); Music; News.
 (19.61 m.; 25.4 m.)
 16.00—News (It., Eng.); Music.
 (25.4 m.; 31.15 m.)
 18.07—News, Play, Music (Arabic).
 19.01—News (Fr.).
 19.18—News (Eng.).
 (31.02 m.)
 19.19—News (Romanian, Serbo-Croat, Greek); Music.
 (19.61 m.; 25.4 m.)
 19.38-20.30—News; Records.
 (31.15 m.)
 19.37—News (Hung.); Music.
 20.36—News and Talk (Ger.).
 (19.61 m.; 31.02 m.)
 21.00—From Rome (No. 1).
 (31.15 m.)
 23.30—News (Sp., Greek); Music.
 (31.02 m.)
 00.00—News (Fr.).
 00.16—News (Eng.).
 (19.61 m.; 25.4 m.; 31.15 m.)
 00.00—For Latin America: News (Sp., Port., It.); Music.
 01.30-03.00—For U.S.A.: News, Talk (Eng.); Opera Music; News.

TOKIO

(25.63 m.; 31.1 m.)
 20.30—News (Eng.); Music.
 21.05—News (Ger.).
 21.15—Talk (Eng.); Asiatic Economic Equality; Jazz Songs.
 21.35-22.00—News (Fr., Jap.).
 02.00—News (Eng.).

VATICAN CITY

(31.06 m. or 31.41 m.)
 11.00—Christian Doctrine (Fr.).
 (19.84 m.)
 19.00—Church News, Talks (Eng.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.; 26.01 m.)
 00.45 (Mon.)—News (Eng.), Songs.
 02.00-03.00—Mail (Eng.), Music.

ZEESEN

(19.85 m.; 31.02 m.)
 16.40—Call (Ger., Eng.); Music.
 17.15—Fairy Tale.
 (19.74 m.)
 17.10-18.25—Symphony Concert.
 (19.85 m.; 25.49 m.; 31.02 m.; 49.83 m.)
 17.30—Marches; Greetings; Music.
 18.30—For Sunday; Concert.
 20.00—Old and New Songs.
 21.00—Trio in C (Brahms).
 21.30-22.25—Sports Review; Music.
 (19.74 m.; 25.42 m.; 25.49 m.)
 22.50—Call (Ger., Eng.); Fairy Tale.
 23.15—Tunes—Old and New.
 00.15—Trio in C (Brahms).
 00.45—Whitsun Concert.
 02.00—German Collegium Musicum.
 03.00—Old Folks at Home (Eng.).

MONDAY, May 29

EMPIRE

Transmission 1 (GSI, GSD, GSB, GSB, GSB)
 06.00—Big Ben; "Aunt Jeannie," Part 2.*
 06.25—BBC Empire Orchestra.
 07.15—"American Commentary," by Raymond Gram Swing.*
 07.30—News.
 07.45—Gala Performance of "In Town Tonight."
 08.45-08.50—Big Ben; Sports News, Market Notes.

Transmission 2 (GSJ, GSH, GSG, GSV, GSF, GRX)
 11.45—Big Ben; Music-Hall.*
 12.45—"Paris Revisited."
 13.15—BBC Military Band.*
 13.55—Theatre.
 14.15—Big Ben; News.
 14.30—Margaret Good (Pfte.).
 14.45—Sports News, Market Notes.
 14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSV, GSF, GRX, GSO to 17.00)
 15.00—Big Ben; Gala Performance of "In Town Tonight."
 16.00—Eric Spruce (Cinema Organ).
 16.25—"The Cabin in the Hills."
 17.00—Big Ben; News.
 17.15—"American Commentary."
 17.30—Frank Biffo's Brass Quintet.*
 17.55-18.00—Sports News, Market Notes.

Transmission 4 (18.20 - 22.00 GSG, GSD, GRX, GSA; 18.20-19.45 GSI; 19.15-22.00 GSP; 19.30-22.00 GSC; 20.00-22.00 GSC; 22.00-00.00 GSP, GSF, GSO, GSD, GRX, GSA)
 18.25—Sports News, Market Notes.
 18.30—Frederic Curzon (BBC Theatre Organ).
 19.00—Big Ben; News.
 19.15—"Empire Exchange."
 19.30—The Gerard Singers.
 19.50—BBC Military Band.
 20.20—"Lundy."
 21.00—Excerpt from "Under Your Hat."
 21.50-22.00—Six-Day Bicycle Race commentary.
 22.20—Sports News, etc.
 22.30—News.
 22.45—Essie Ackland (Contralto).
 23.00—Theatre.*
 23.20-00.00—Jack Hylton's Band.*

Transmission 5 (GSE, GSD, GSB, GSB, GSB)
 00.20—Sports News, Market Notes.
 00.25—"Paris Revisited."
 00.55—Symphony Concert.
 01.45—News.
 02.00-02.30—Big Ben; Grosvenor House Dance Band.
Transmission 6 (GSD, GSC, GSB, GSB, GSB)
 03.20—Sports News, Market Notes.
 03.25—Frank Biffo's Brass Quintet.*
 03.50—"Lundy."
 04.30—John McCormack (Tenor).
 05.00—Big Ben; News.
 05.15-05.30—"Empire Exchange."*

BOMBAY

(31.4 m.)
 03.30-04.30—Indian Music.
 08.00-10.00—Music; Markets.
 11.00-12.00—Indian Music.
 (61.48 m.)
 13.30-18.00—Music and News; at 15.15—Talk (Eng.); at 16.45—News (Eng.).

BUDAPEST

(32.88 m.)
 01.00-02.00 (Tues.)—Orchestra; News; Pfte.; Violin; Pfte.; News (Eng.); Hungarian Folk-Songs; News (Slovak); Military Band; News (Ruthenian); Anthem.

DELHI

(19.62 m.; 31.28 m.)
 03.00-04.30—Music; News; at 03.50—News (Eng.); For Schools.
 08.30-09.30—Music.
 (31.28 m.; 60.49 m.)
 13.30—News (Eng., Hind.); Music.
 16.45-18.00—News (Eng.), Songs; at 17.05—Talk (Eng.); Lord Dalhousie.

HUIZEN

(16.88 m.; 19.71 m.)
 13.10—PHOHI Programme for the Dutch Indies.
 14.15-14.30—For the Dutch Indies (VPRO).

MELBOURNE

(25.25 m.)
 04.30—Musical Matinée.
 08.30-09.15—For Youth.
 (31.32 m.)
 09.30—Music.
 09.45—Sports; Markets; News.
 10.40—Men Talking.

11.00—Radio Serial.
 11.30—Topical Revue; Songs.
 12.10—ABC Symphony Orchestra.
 Guest Conductor: Georg Szell.
 13.00—Young People's Discussion.
 13.15—Young Australia.
 13.30—News and Music.
 14.20-14.30—News.
 (25.25 m.)
 21.30—News; Gym; Music.
 23.00—News; Music; Reading.
 01.00-01.15—Service.
 03.00-04.30—Music and News.

PARIS - MONDIAL

(19.68 m.)
 12.00—News (Eng., Fr.), Music.
 (16.81 m.; 19.68 m.)
 14.30—Music, Exchange, Metals.
 (41.21 m.)
 16.15—News; Music.
 17.40—News (Fr., Arabic), Variety.
 20.00—News (Eng., It.), Music.
 22.30—Markets, News (Port.).
 (25.24 m.; 25.6 m.)
 00.00-05.00—Records; at 01.00—News (Fr., Sp., Port.); at 04.00—News (Eng., Ger.).

RADIO - NATIONS

(26.31 m.)
 08.00-08.15—Music; Essential Facts about the League of Nations (Eng.).
 (20.64 m.)
 08.30-08.45—See 08.00.

ROME

(19.61 m.)
 10.15—News, Songs, News (Eng.).
 (25.4 m.)
 10.30—Music; News (Arabic).
 (16.84 m.; 25.4 m.)
 11.00-14.45—News (Fr.); Music; News; at 12.00—News (Eng., Chin.).
 (19.61 m.; 25.4 m.)
 16.00—News (It., Eng.); Music; Politics; Sport.
 (25.4 m.; 31.15 m.)
 18.07—News (Arabic); Music.
 19.01-19.17—News (Fr.).
 19.18—News (Eng.).
 (31.02 m.)
 18.40—Talk (Fr.).
 19.01—News (Pol., Romanian, Serbo-Croat, Greek); Music.
 (19.61 m.; 25.4 m.)
 19.38-20.30—Music, News, Talk.
 (31.15 m.)
 19.37—News (Hung., Turk.); Music.
 20.36-20.55—News (Ger.).
 (19.61 m.; 31.02 m.)
 21.00—From Turin (No. 1).
 (31.15 m.)
 23.30—News (Sp., Greek); Songs.
 (31.02 m.)
 00.00—News (Fr.).
 00.16-00.30—News (Eng.).
 (19.61 m.; 25.4 m.; 31.15 m.)
 00.00—For Latin America: News (It., Sp., Port.); Music.
 01.30-03.00—For U.S.A.: News (Eng.); Harp; Folk-Songs; News.

TOKIO

(25.63 m.; 31.1 m.)
 20.30—News (Eng.); Pfte.
 21.05—News (Ger.), Talk (Fr.).
 21.35-22.00—News (Fr., Jap.).
 02.00—News (Eng.).

VATICAN CITY

(48.47 m.)
 20.00—Talk (Dutch).
 20.30—Church News (It.).
 21.00—Talk (Polish).

WARSAW

(19.84 m.; 22 m.; 25.55 m.; 26.01 m.)
 00.45 (Tues.)—News, Sports (Eng.).
 01.05-02.00—Songs; at 01.20—Talk.

ZEESEN

(19.85 m.; 31.02 m.)
 16.40—Call (Ger., Eng.); Music.
 17.15—Talk (Eng.); Girls at Work.
 (19.85 m.; 25.49 m.; 31.02 m.; 49.83 m.)
 17.30—Mozart Chamber Music.
 18.00—Greetings; Music; A.B.C.
 18.45—News, Economic Review.
 19.00—Hanover Castle Concert.
 20.00 (on 25.49 m.; 49.83 m.)—News (Eng.); (on 19.85 m. and 31.02 m.)—News (Afrikaans).
 20.15—Topical Talks.
 20.45—Steiner ('Cello).
 21.15—Folk Dances and Songs.
 22.00-22.25—News (Ger., Eng.).
 (19.74 m.; 25.42 m.; 25.49 m.)
 22.50—Call (Ger., Eng.); Greetings.
 23.00—Talk (Eng.); Klopstock.
 23.15—Talk (Eng.); Girls at Work.
 23.30—Horn and Pfte. Sonata (Beethoven).
 23.45—News.
 00.00—News (Eng.); 'Cello; Variety.

TUESDAY, May 30

EMPIRE

Transmission 1 (GSI, GSD, GSD, GSB, GSB)*
 06.00—Big Ben; Yasha Krein's Gipsy Orchestra.*
 06.35—"Empire Exchange."*
 06.50—Jack Hylton's Band.
 07.30—News. 07.45—Welsh Choruses.
 08.15-08.20—Big Ben; Sports News, Market Notes.
Transmission 2 (GSI, GSH, GSG, GSV, GSF, GRX)
 11.45—Big Ben; "Lots of Love."*
 12.45—Pite, duets.
 13.00—Scenes from Shakespeare.
 13.45—Welsh Choruses.*
 14.15—Big Ben; News.
 14.30—Topical talks.
 14.45-14.50—Sports News, Market Notes.
Transmission 3 (GSI, GSH, GSG, GSV, GSF, GRX, GSO to 17.00)
 14.55—Ceremonial Opening of Triennial Conference of Associated Countrywomen of the World.
 15.20—Musical Interlude.*
 15.30—"Paris Revisited."*
 16.00—Music-Hall.*
 17.00—Big Ben; News.
 17.15—"Lundy."*
 17.55-18.00—Sports News, Market Notes.
Transmission 4 (18.20-22.00 GSG, GSD, GRX, GSA; 18.20-19.45 GSI; 19.15-22.00 GSP; 19.30-22.00 GSC; 20.00-22.00 GSO; 22.00-00.00 GSP, GSF, GSO, GSD, GRX, GSC, GSA)
 18.25—Sports News and Market Notes.
 18.30—Welsh Choruses.*
 19.00—Big Ben; News.
 19.15—Topical talks.*
 19.30—"Gentlemen, you may smoke!"
 20.00—Sir Walford Davies with the BBC Empire Orchestra.
 21.00—Scenes from "Macbeth."*
 21.45-22.00—Nancy Logan (Piano).
 22.20—Sports News, etc.
 22.30—News.
 22.45—Topical talks.*
 23.00—Frank Ford ("Cello").
 23.15-00.00—"Lucky Dip."*
Transmission 5 (GSE, GSD, GSB, GSB, GSB)*
 00.20—Sports News, Market Notes.
 00.25—Scenes from "Macbeth."*
 01.10—Charles Saxby (BBC Theatre Organ).
 01.30—Topical talks.*
 01.45—News.
 02.00-02.30—Big Ben; Folk Songs.
Transmission 6 (GSD, GSC, GSB, GSB, GSB)*
 03.20—Sports News, Market Notes.
 03.25—Jack Hylton's Band.*
 04.00—Sir Walford Davies with the BBC Empire Orchestra.*
 05.00—Big Ben; News.
 05.15-05.30—Nancy Logan (Piano).*

BOMBAY

(31.4 m.)
 03.30-04.30—Indian Music.
 08.00-10.00—Music; Markets.
 11.00-12.00—Indian Music.
 (61.48 m.)
 13.30-18.00—Music and News; at 15.15—Talk (Eng.); at 16.45—News (Eng.).

BUDAPEST

(32.88 m.)
 01.00-02.00 (Wed.)—Choir; News; Pite. and Orchestra; News (Eng.); Folk—Songs; News (Slovak); Orchestra; News (Ruthenian); Anthem.

DELHI

(19.62 m.; 31.28 m.)
 03.00-04.30—Readings; Music; News; at 03.50—News (Eng.); For Schools.
 08.30-09.30—Music.
 (31.28 m.; 60.49 m.)
 13.30—News (Eng., Hind.), Songs.
 14.00-18.00—For Youth; Music; News; at 16.45—News (Eng.); at 17.05—Talk (Eng.); Religion.

HUIZEN

(19.71 m.)
 08.00-09.30—For Australasia.
 (16.88 m.; 19.71 m.)
 13.10-14.15—PHOHI Programme for the Dutch Indies.
 (31.28 m.)
 19.45—For Africa (VPRO).
 20.00-21.30—For Africa.
 01.00-02.30 and 02.45-04.15—For the Americas.

MELBOURNE

(25.25 m.)
 04.30—Musical Matinée.
 08.30-09.15—For Children.

(31.32 m.)
 09.30—Music and News.
 11.00—Community Singing from Footscray.
 13.30-14.30—News and Music.
 (25.25 m.)
 21.30—News; Gym; Music.
 23.00—News; Music; Reading.
 01.00-01.15—Service.
 03.00-04.30—Music and News.

PARIS-MONDIAL

(19.68 m.)
 12.00—News (Eng., Fr.), Music.
 (16.81 m.; 19.68 m.)
 14.30-16.00—"Louisian"—Play (de Musset); Exchange.
 (41.21 m.)
 16.15—News; Music.
 17.40—News (Fr., Arabic); Music; at 19.30—News (Fr., Arabic, It.).
 22.00—Markets; News (Port.).
 (25.24 m.; 25.6 m.)
 00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.).
 02.30—See 14.30.
 03.15—News, Music; at 04.00—News (Eng., Ger.).

ROME

(19.61 m.)
 10.15—News; Music.
 (25.4 m.)
 10.30—Music; News (Arabic).
 (16.84 m.; 25.4 m.)
 11.00—News (Fr.), Music, News; at 12.00—News (Eng.).
 (25.4 m.)
 14.45-15.00—Talks (It., Fr.).
 (19.61 m.; 25.4 m.)
 16.00—News (It., Eng.); Music.
 (25.4 m.; 31.15 m.)
 18.07—News, Music (Arabic).
 19.01—News and Talk (Fr.).
 19.18—News (Eng.).
 (31.02 m.)
 18.40—Talk (Eng.).
 19.01-20.59—News (Pol., Romanian, Serbo-Croat, Greek); Music.
 (19.61 m.; 25.4 m.)
 19.38-20.30—Music; News.
 (31.15 m.)
 19.37—News (Hung., Turk.), Music.
 20.36—News and Talk (Ger.).
 (19.61 m.; 31.02 m.)
 21.00—From Turin (No. 1).
 (31.15 m.)
 23.30—News (Sp., Greek).
 (31.02 m.)
 00.00—News (Fr.).
 00.16—News (Eng.).
 (19.61 m.; 25.4 m.; 31.15 m.)
 00.00—For Latin America: News (It., Sp., Port.); Music.
 01.30-03.00—For U.S.A.: News (Eng.); Classical Music; News.

TOKIO

(25.63 m.; 31.1 m.)
 20.30—News (Eng.); Sketch.
 21.05—News (Ger.), Music (Jap.).
 21.35-22.00—News (Fr., Jap.).
 02.00—News (Eng.).

VATICAN CITY

(25.55 m.)
 14.30—Church News, Talks (Eng.).
 (19.84 m.)
 16.30—Church News (Eng.).
 (48.47 m.)
 20.00—Church News (Eng.).
 20.30—Talks, Doctrine (Ger.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.; 26.01 m.)
 00.05 (Wed.)—Music; Songs; at 00.45—News (Eng.).
 02.00-02.10—Topical Talk (Eng.).

ZEESEN

(19.85 m.; 31.02 m.)
 16.40—Call (Ger., Eng.); Music.
 17.15—The Happy Family.
 (19.85 m.; 25.49 m.; 31.02 m.; 49.83 m.)
 17.30—Talk: Famous Germans.
 17.45—"Love Letters"—Musical Sequence (Driesch).
 18.00—Greetings; Concert.
 18.30—Study Club (Eng.).
 18.45—News, Economic Review.
 19.00—"The Bird Fancier" (Zeller).
 20.00 (on 25.49 m. and 49.83 m.) News (Eng.); (on 19.85 m. and 31.02 m.) News (Afrikaans).
 20.15—Topical Talks.
 20.45—Cabaret on Records; Music.
 22.00-22.25—News (Ger., Eng.).
 (19.74 m.; 25.42 m.; 25.49 m.)
 22.50—Call (Ger., Eng.); Greetings.
 23.00—The Happy Family (Eng.).
 23.15—"Love Letters" (Driesch).
 23.30—Talk; News.
 00.00—News, Economic Review (Eng.).
 00.15—Dance Music.

WEDNESDAY, May 31

EMPIRE

Transmission 1 (GSI, GSD, GSD, GSB, GSB)*
 06.00—Big Ben; Music-Hall.*

07.00—G. Thalben-Ball (Organ).
 07.30—News.
 07.45—Topical talks.*
 08.00—Nancy Logan (Piano).*

08.15-08.20—Big Ben; Sports News, Market Notes.
Transmission 2 (GSI, GSH, GSG, GSV, GSF, GRX)
 11.45—Big Ben; Jack Hylton's Band.*

12.30—"At The Black Dog."*
 13.00—"Empire Exchange."*
 13.15—Berkeley Mason (Pfte.).
 13.25—"Jutland."*
 14.15—Big Ben; News.
 14.30—Nancy Logan (Piano).*

14.45-15.00—Sports News, Market Notes.
Transmission 3 (GSI, GSH, GSG, GSV, GSF, GRX, GSO to 17.00)
 15.00—Big Ben; BBC Empire Orchestra; Elsie Suddaby (Soprano).
 16.00—"The Open-Air Club."*
 16.30—"The Cosmopolitan Four."
 17.00—Big Ben; News.
 17.15—"World Affairs."*
 17.30—Garda Hall (Soprano); Etienne Amyot (Pfte.).

17.55-18.00—Sports News, Market Notes.
Transmission 4 (18.20-22.00 GSG, GSD, GRX, GSA; 18.20-19.45 GSI; 19.15-22.00 GSP; 19.30-22.00 GSC; 20.00-22.00 GSC; 22.00-00.00 GSP, GSF, GSO, GSD, GRX, GSC, GSA)
 18.25—Sports News, Market Notes.
 18.30—"The Cabin in the Hills."*
 19.00—Big Ben; News.
 19.15—"World Affairs."*
 19.30—BBC Orchestra (Section E).
 20.00—"Jutland."*
 20.50—Message to South Africans.
 21.00—Act 2, "La Traviata," from Covent Garden with Gigli.
 21.45-22.00—Bruno Raikin (Pfte.).
 22.20—Sports News, etc.
 22.30—News.
 22.45—Act 4, "La Traviata."*
 23.20—Musical Interlude.
 23.30-00.00—"At The Black Dog."*

Transmission 5 (GSE, GSD, GSB, GSB, GSB)*
 00.20—Sports News, Market Notes.
 00.25—"Jutland."*
 01.15—Billy Mayerl (Piano).
 01.30—"World Affairs."*
 01.45—News.
 02.00-02.30—Big Ben; Hanwell Silver Band.
Transmission 6 (GSD, GSC, GSB, GSB, GSB)*
 03.20—Sports News, Market Notes.
 03.25—"The Open-Air Club."*
 03.55—Ross Pratt (Pfte.).
 04.15—"Lucky Dip."*
 05.00—Big Ben; News.
 05.15-05.30—"World Affairs."*

BOMBAY
 (31.4 m.)
 03.30-04.30—Indian Music.
 08.00-10.00—Music; Markets.
 11.00-12.00—Indian Music.
 (61.48 m.)
 13.30—Music and News; at 15.15—Talk (Eng.).
 16.45—News (Eng.); Violin.
 17.15—World Affairs from BBC.
 17.30-18.00—"Ending It"—Play.

BUDAPEST
 (32.88 m.)
 01.00-02.00 (Thurs.)—Orchestra; News; Operetta Music; News (Eng.); Talk; News (Slovak); Cigany Band; News (Ruthenian); Anthem.
DELHI
 (19.62 m.; 31.28 m.)
 03.30-04.30—Music, News; at 03.50—News (Eng.).
 08.00-10.00—Music; Markets.
 (31.28 m.; 60.49 m.)
 13.30—News (Eng., Hind.), Music; at 15.15—Talk (Eng.).
 16.45—News (Eng.), Violin.
 17.15—World Affairs from BBC.
 17.30-18.00—"Ending It"—Play.

HUIZEN
 (16.88 m.; 19.71 m.)
 13.10-14.15—PHOHI Programme for the Dutch Indies.
 (19.71 m.)
 15.30-17.30—For the East.
 (31.28 m.)
 01.15-02.15—PHOHI Programme for the Dutch Indies.
 02.25-02.40—For America (VPRO).

MELBOURNE
 (25.25 m.)
 04.30—Music; Racing.
 08.30-09.15—For Children.
 (31.32 m.)
 09.30—Music and News.
 10.40—Talk: Communism; Music.
 11.00—Light Opera Company.
 11.45—Emma and 'Erbert.

11.55—Musical Programme.
 12.00—Melbourne Philharmonic.
 Guest Conductor: Georg Szell.
 13.30-14.30—News and Music.
 (25.25 m.)
 21.30—News; Gym; Music.
 23.00—News; Music.
 00.30—Short Story; Records.
 01.00-01.15—Service.
 03.00-04.30—Music and News.

PARIS-MONDIAL

(19.68 m.)
 12.00—News (Eng., Fr.), Music.
 (16.81 m.; 19.68 m.)
 14.30—Concert; Exchange.
 (41.21 m.)
 16.15—News; Music.
 17.40—News (Fr., Arab.); Music; at 19.30—News (Fr., Arab., It.).
 22.00—Markets, News (Port.).
 (25.24 m.; 25.6 m.)
 00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.).
 02.30—Records; News.
 04.00-05.00—News, Talk (Eng.).

ROME

(19.61 m.)
 10.15—News, Music, News (Eng.).
 (25.4 m.)
 10.30—Music, News (Arabic).
 (16.84 m.; 25.4 m.)
 11.00—News (Fr.); Opera.
 12.00-14.15—News (Eng.); Music; Talks (It., Chin.); News.
 (19.61 m.; 25.4 m.)
 16.00—News; Opera; Talk (Bengali); News (Eng.); Strauss Music.
 (25.4 m.; 31.15 m.)
 18.07—Talk, Music, News (Arabic).
 19.01—News (Fr.).
 19.18—News (Eng.).
 (31.02 m.)
 18.40—Talk (Ger.).
 19.01—News (Pol., Romanian, Serbo-Croat, Greek); Music.
 (19.61 m.; 25.4 m.)
 19.38—Opera Music; News.
 (31.15 m.)
 19.37—News (Hung., Turk.), Music.
 20.36—News (Ger.).
 (19.61 m.; 31.02 m.)
 21.00—From Turin (No. 1).
 (31.15 m.)
 23.30—News (Sp., Greek); Music.
 (31.02 m.)
 00.00—News (Fr.).
 00.16—News (Eng.).
 (19.61 m.; 25.4 m.; 31.15 m.)
 00.00—For Latin America: News (It., Sp., Port.); Opera Music.
 01.30-03.00—For U.S.A.: News (Eng.); Light Music; News.

TOKIO
 Programme not received.

VATICAN CITY

(48.47 m.)
 20.00—Church News (Fr.).
 (31.06 m. or 31.41 m.)
 20.30—Church News (Fr.).
 (48.47 m.)
 21.00—Church News (Sp.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.; 26.01 m.)
 00.05 (Thurs.)—Folk Songs; Dances.
 00.45—News (Eng.); Songs.
 02.10-03.00—Polish Dances—Accordian Band; Notes.

ZEESEN

(19.85 m.; 31.02 m.)
 16.40—Call (Ger., Eng.); Music.
 (19.85 m.; 25.49 m.; 31.02 m.; 49.83 m.)
 17.45—Cabaret; Greetings; Talk.
 18.30—Talk (Afrikaans).
 18.45—News, Economic Review.
 19.00—Concert and Talk (Port.); Music.
 20.00 (on 25.49 m. and 49.83 m.)—News (Eng.); (on 19.85 m. and 31.02 m.)—News (Afrikaans).
 20.15—Topical Talks.
 20.30—Press Review; Music.
 22.00-22.25—News (Ger., Eng.).
 (19.74 m.; 25.42 m.; 25.49 m.)
 22.50—Call (Ger., Eng.); Music.
 23.30—Cabaret.
 23.45—News, Economic Review.
 00.00—News (Eng.); Variety.

THURSDAY, June 1

EMPIRE

Transmission 1 (GSI, GSD, GSD, GSB, GSB)*
 06.00—Big Ben; Ceremonial Opening of Triennial Conference of Associated Countrywomen of the World.*
 06.30—BBC Empire Orchestra; Hinefmoa Rosier (Soprano).
 07.30—News.
 07.45—"World Affairs."*

08.00—Billy Mayerl (Piano).*

08.15-08.20—Big Ben; Sports News, Market Notes.
Transmission 2 (GSI, GSH, GSG, GSV, GSF, GRX)
 11.45—Big Ben; Yasha Krein's Gipsy Orchestra.*
 12.20—"Lundy."*
 13.00—Sir Walford Davies with the BBC Empire Orchestra.*
 14.00—Billy Mayerl (Piano).*

14.15—Big Ben; News.
 14.30—"World Affairs."*
 14.45—Sports News, Market Notes.
 14.50-15.00—Interlude.*
Transmission 3 (GSI, GSH, GSG, GSV, GSF, GRX, GSO to 17.00)
 15.00—Big Ben; "Stratford's Diamond Jubilee."*
 15.15—"Lucky Dip."*
 16.00—BBC Singers (Women's Voices).
 16.30—Victor Silvester's Ballroom Orchestra.
 17.00—Big Ben; News.
 17.15—Talk for listeners in India.
 17.30—Marjorie Hayward (Violin); G. O'Connor-Morris (Pfte.).
 17.55-18.00—Sports News, Market Notes.

Transmission 4 (18.20-22.00 GSG, GSD, GRX, GSA; 18.20-19.45 GSI; 19.15-22.00 GSP; 19.30-22.00 GSC; 20.00-22.00 GSC; 22.00-00.00 GSP, GSF, GSO, GSD, GRX, GSC, GSA)
 18.25—Sports News, Market Notes.
 18.30—"At The Black Dog."*
 19.00—Big Ben; News.
 19.15—Audrey Piggott ("Cello").
 19.30—Variety.
 20.00—"Stratford's Diamond Jubilee."*
 20.15—"They Speak for Themselves."*
 21.00—Silly Symphonies.
 21.45-22.00—Six-Day Bicycle Race commentary.
 22.20—Sports News, etc.
 22.30—News.
 22.45—Topical talks.
 23.00—Frank Bifo's Brass Quintet.*
 23.25—Ceremonial Opening of Triennial Conference of Associated Countrywomen of the World.*
 23.50-00.00—Military Band.*

Transmission 5 (GSE, GSD, GSB, GSB, GSB)*
 00.20—Sports News; Market Notes.
 00.30—"Theatreland."*
 00.50—Laurence Turner String Quartet.
 01.30—"Cards on the Table."*
 01.45—News.
 02.00-02.30—Big Ben; "Six for Tricks."*

Transmission 6 (GSD, GSC, GSB, GSB, GSB)*
 03.20—Sports News, Market Notes.
 03.25—"Stratford's Diamond Jubilee."*
 03.40—BBC Empire Orchestra.
 04.30—"At The Black Dog."*
 05.00—Big Ben; News.
 05.15-05.30—Audrey Piggott ("Cello").*

BOMBAY

(31.4 m.)
 03.30-04.30—Indian Music.
 08.00-10.00—Music; Markets.
 11.00-12.00—Indian Music.
 (61.48 m.)
 13.30-18.00—Music and News; at 15.15—Talk (Eng.); at 16.45—News (Eng.).

BUDAPEST

(32.88 m.)
 01.00-02.00 (Fri.)—Orchestra; News; Violin; News (Eng.); Violin; News (Slovak); Folk-Songs; News (Ruthenian); Anthem.

DELHI

(19.62 m.; 31.28 m.)
 03.00-04.30—Music; News; For Schools; at 03.50—News (Eng.).
 08.30-09.30—Music.
 (31.28 m.; 60.49 m.)
 13.30-18.05—News (Eng., Hind.), Music; at 16.45—News (Eng.).

HUIZEN

(16.88 m.; 19.71 m.)
 13.10—PHOHI Programme for the Dutch Indies.
 14.15-14.30—VPRO Talk for the Dutch Indies.

MELBOURNE

(25.25 m.)
 04.30—Music; Racing.
 08.30-09.15—For Children.
 (31.32 m.)
 09.30—Music and News.
 11.10—ABC Symphony Orchestra.
 Guest Conductor: Heinze, Goluboff (Violin); Music.
 12.05—Talk; Music.
 13.30-14.30—News and Music.
 (25.25 m.)
 21.30—News; Gym; Music.

23.00—News; Music; Reading.
01.00-01.15—Service.
03.00—Literature; Music.
03.20—Markets; Stocks.
03.40-04.30—News; Music.

PARIS - MONDIAL

(19.68 m.)
12.00—News (Eng., Fr.), Music.
(16.81 m.; 19.68 m.)
14.30—Chamber Music; Exchange.
(41.21 m.)
16.15—News; Records.
17.40—News (Fr., Arab.); Music.
20.00—News (Eng., It.), Music.
22.30—Markets; News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Music; at 01.00—
News (Fr., Sp., Port.).
02.30-05.00—Music; News; at
04.00—News (Eng., Ger.).

ROME

(19.61 m.)
10.15—News; Music, News (Eng.).
(25.4 m.)
10.30—Music, News (Arabic).
(16.84 m.; 25.4 m.)
11.00—News (Fr.); Music; Talk;
News; at 12.00—News (Eng.).
(25.4 m.)
14.45-15.00—Talks (Ger., Eng.).
(19.61 m.; 25.4 m.)
16.00—News; Songs; News (Eng.,
Bengali); Opera Music; News.
(25.4 m.; 31.15 m.)
18.07—News, Music (Arabic).
19.01—News (Fr.).
19.18—News (Eng.).
(31.02 m.)
18.40—Talks (Pol., Sp.).
19.01—News (Polish, Romanian,
Serbo-Croat, Greek); Music.
(19.61 m.; 25.4 m.)
19.38-20.30—Music; News.
(31.15 m.)
19.37—News (Hung., Turk.), Music.
20.36—News and Talk (Ger.).
(19.61 m.; 31.02 m.)
21.00—From Turin (No. 1).
22.00—From Budapest.
22.40—From Turin (No. 1).
(31.15 m.)
23.30—News (Sp., Greek).
(31.02 m.)
00.00—News (Fr.).
00.16-00.30—News (Eng.).
(19.61 m.; 25.4 m.; 31.15 m.)
00.00—For Latin America: News
(Sp., Port., It.); Talk; Music.
01.30-03.00—For U.S.A.: News,
Talk (Eng.); Music; News.

TOKIO

Programme not received.

VATICAN CITY

(48.47 m.)
20.00—Christian Doctrine (Eng.).
20.30—Talks (It.).
21.00—Church News (Pol.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.;
26.01 m.)
00.45 (Friday)—News (Eng.).
01.05—19th Century Music—Witas
(Tenor) and Kowalska (Cello).
02.00-02.10—Talk (Eng.).

ZEESEN

(19.85 m.)
16.40—Call (Ger., Eng.); Music;
Talk.
(19.85 m.; 25.49 m.; 31.02 m.)
17.30—Organ Music.
18.00—Greetings (Afrikaans);
Music.
(19.85 m.; 25.49 m.; 31.02 m.;
49.83 m.)
18.30—Talk and News (Eng.);
Band.
19.45—Press Review (Eng.).
20.00 (on 25.49 m. and 49.83
m.)—News (Eng.); (on 19.85
m. and 31.02 m.)—News (Afri-
kaans).
20.15—Topical Talks.
20.45—Choral Concert.
21.15—German Biographies.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.42 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Pfte.
23.15—Talk; Music.
23.45—News, Economic Review.
00.00—News, Economic Review
(Eng.).
00.15—Choir; Military Band.

FRIDAY, June 2**EMPIRE**

Transmission 1 (GSI, GSD,
GSD, GSB, GSB)
06.00—Big Ben; "The Battle of
Jutland."
06.50—Eric Winstone's Accordeon
Quintet.
07.10—"Theatreland."
07.30—News.
07.45—Topical talks.*

08.00—Audrey Piggott (Cello).
08.15-08.20—Big Ben; Sports
News, etc.

Transmission 2 (GSI, GSH,
GSG, GSV, GSF, GRX)
11.45—Big Ben; "The Open Air
Club."
12.15—Jack White and his Colle-
gians.
12.55—"Theatreland."
13.15—Birmingham Philharmonic
String Orchestra: Dorothy Manley
(Pfte.).
14.00—Golf: England v. France.
14.15—Big Ben; News.
14.30—Topical talks.*
14.45—Sports News, etc.
14.50-15.00—Interlude.†

Transmission 3 (GSI, GSH,
GSG, GSV, GRX, GSO to
17.00)
15.00—Big Ben; Light Orchestra.
15.30—John McCormack (Tenor).
16.00—"The Battle of Jutland."
16.50—Golf: England v. France.
17.00—Big Ben; News.
17.15—Yascha Krein's Gipsy Or-
chestra.*
17.50-18.00—Sports News, etc.

Transmission 4 (18.20-22.00
GSG, GSD, GRX, GSA; 18.20-
19.45 GSI; 19.15-22.00 GSP;
19.30-22.00 GSC; 20.00-22.00
GSC; 22.00-00.00 GSP, GSF,
GSO, GSD, GRX, GSC, GSA)

18.25—Sports News, etc.
18.35—Roy Henderson (Baritone).
19.00—Big Ben; News.
19.15—Topical talks.*
19.30—Frank Biffo's Brass Quintet.*
20.00—"I Want to be an Actor."
20.15—"Time to Laugh."
21.00—To be announced.
21.35—Joy Boughton (Oboe).
21.50-22.00—Six-Day Bicycle Race
commentary.
22.20—Sports News, etc.
22.30—News.
22.45—"Cards on the Table."*
23.05—Dance Music.
23.30-00.00—Welsh Choruses.*

Transmission 5 (GSE, GSD,
GSB, GSB, GSB)
00.20—Sports News, etc.
00.30—To be announced.
01.05—Eric Winstone's Accordeon
Quintet.*

01.30—Talk: A Canadian in
London.
01.45—News.
02.00-02.30—Big Ben; Excerpts
from Opera.

Transmission 6 (GSD, GSC,
GSB, GSB, GSB)
03.20—Sports News, etc.
03.30—"Victorian Melodies."*
04.30—Florence Hooton (Cello);
Guy Eldridge (Organ).
05.00—Big Ben; News.
05.15-05.30—"Cards on the
Table."*

BOMBAY

(31.4 m.)
03.30-04.30—Indian Music.
08.00-10.00—Music; Markets.
11.00-12.00—Indian Music.
(61.48 m.)
13.30—For European Children.
14.30-18.00—Music and News; at
15.15—Talk (Eng.); at 16.45—
News (Eng.).

BUDAPEST

(32.88 m.)
01.00-02.00 (Sat.)—Pfte.; News;
Orchestra; News (Eng.); Gigny
Band; News (Slovak); Military
Band; News (Ruthenian);
Anthem.

DELHI

(19.62 m.; 31.28 m.)
03.00—Readings; Hymns; News.
03.50-04.00—News (Eng.).
03.30-09.30—Music.
(31.28 m.; 60.49 m.)
13.30—News (Eng., Hind.), Music.
16.45-18.05—News (Eng., Hind.).
Music; at 17.05—Talk (Eng.);
Prohibition; at 17.20 (31.28 m.
only)—A Play.

HUIZEN

(16.88 m.; 19.71 m.)
13.10-14.15—PHOHI Programme
for the Dutch Indies.
(31.28 m.)
02.00-03.00—Happy Programme for
Latin America.

MELBOURNE

(25.25 m.)
04.30—Musical Matinée.
08.30-09.15—For Children.
(31.32 m.)
09.30—News; Racing; Music.
10.30—News; Talk; Music.
11.00—Play.
12.00—Brass Band.
12.30—Ballad Concert.

13.00—Light Orchestral.
13.30—News; Markets; Stocks;
Records.
14.00-14.30—Records; News.
(25.25 m.)

21.30—News; Gym; Music.
23.00—News; Music.
01.00-01.15—Service.
03.00—Time; Music.
03.20—Markets; Stocks; Records.
04.00-04.15—News; Music.

PARIS - MONDIAL

(19.68 m.)
12.00—News (Eng., Fr.); Music.
(16.81 m.; 19.68 m.)
14.30—"Kadubec"—Operetta
(Yvain); Exchange.
(41.21 m.)
16.15—News; Music.
17.40—News (Fr., Arabic), Variety.
20.00—News (Eng., It.), Music.
22.30—Markets, News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Records; at 01.00—
News (Fr., Sp., Port.).
02.30—"Les caprices de Marianne"
—Play (de Musset), in English,
by the English Players.
03.15-05.00—News; Records; at
04.00—News (Eng., Ger.).

ROME

(19.61 m.)
10.15—News, Music, News (Eng.).
(25.4 m.)
10.30—Music, News (Arabic).
(16.84 m.; 25.4 m.)
11.00—News (Fr.); Music; Talks;
at 12.00—News (Eng.).
(25.4 m.)
14.45-14.52—For Farmers (Sp.).
(19.61 m.; 25.4 m.)
16.00—News (It., Eng.); Music.
(25.4 m.; 31.15 m.)
18.07—Talk, News, Music (Arabic).
19.01—News (Fr.).
19.18-19.35—News (Eng.).
(31.02 m.)
18.40—Talk (Dutch).
19.01-19.18—News (Pol.).
19.37—Music, News (Serbo-Croat).
20.15—Foreign Affairs (Greek);
Music.
(19.61 m.; 25.4 m.)
19.38-20.30—Music; News; Talk.
(31.15 m.)
19.37—News (Hung., Turk.), Music.
20.36—News (Ger.).
(19.61 m.; 31.02 m.)
21.00—From Turin (No. 1).
(31.15 m.)
23.30—News (Sp., Greek), Music.
(31.02 m.)
00.00-00.15—News (Fr.).
00.16-00.30—News (Eng.).
(19.61 m.; 25.4 m.; 31.15 m.)
00.00—For Latin America: News
(Sp., Port., It.); Music.
01.30-03.00—For U.S.A.: News
(Eng.); Music; Talk; News.

TOKIO

Programme not received.

VATICAN CITY

(48.47 m.)
20.00—Talk (Eng.).
20.30—Church News (Ger.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.;
26.01 m.)
00.05 (Sat.)—Light Orchestral.
00.45—News (Eng.); Programmes.
02.10-03.00—Witold Myszowski
(Polish Songs); Programmes.

ZEESEN

(19.85 m.)
16.40—Call (Ger., Eng.); Music.
17.15—Talk (Eng.); German
History.
(19.85 m.; 25.49 m.; 31.02 m.)
17.30—Talk; Greetings; Music.
(19.85 m.; 25.49 m.; 31.02 m.;
49.83 m.)
18.30—Talk; News; Economics.
19.00—Orchestral Concert.
20.00 (on 25.49 m. and 49.83 m.)
—News (Eng.); (on 19.85 m.
and 31.02 m.)—News (Afrikaans).
20.15—Topical; Markets.
20.45—Folk Music.
21.15—Reading: "Minna von
Barnhelm" (Lessing) (Eng.).
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.42 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Greetings.
23.00—Nocturne (Haydn).
23.15—Talk: Shipbuilding.
23.45—News, Economic Review.
00.00—News, Economic Review
(Eng.).
00.15—Variety.

SATURDAY, June 3**EMPIRE**

Transmission 1 (GSI, GSD,
GSD, GSB, GSB)
06.00—Big Ben; "Cards on the
Table."*
06.15—"Victorian Melodies."*

07.15—"London Log." 07.30—
News.
07.45—"Three in Tempo."*
08.15-08.20—Big Ben; Stock Ex-
change Report, etc.

Transmission 2 (GSI, GSH,
GSG, GSV, GSF, GRX)
11.45—Big Ben; "Lucky Dip."*
12.30—Frank Biffo's Brass Quintet.*
13.00—County Cricket commen-
taries.
13.30—Aston Hippodrome Orches-
tra.
14.15—Big Ben; News.
14.30—"London Log."*
14.45—Stock Exchange Report, etc.
14.50-15.00—Interlude.†
Transmission 3 (GSI, GSH,
GSG, GSV, GRX, GSO to 17.00)
15.00—Big Ben; Midland Auto-
mobile Club Hill Climb.
15.30—Royal Review of London
Fire Brigade and London Auxili-
ary Fire Service.
16.00—"Victorian Melodies."*
17.00—Big Ben; News.
17.15—John Hylton's Band.*
17.55-18.00—Stock Exchange Re-
port, etc.

Transmission 4 (18.20-22.00
GSG, GSD, GRX, GSA; 18.20-
19.45 GSI; 19.15-22.00 GSP;
19.30-22.00 GSC; 20.00-22.00
GSC; 22.00-00.00 GSP, GSF,
GSO, GSD, GRX, GSC, GSA)
18.25—Stock Exchange Report, etc.
18.30—"Three in Tempo."*
19.00—Big Ben; News.
19.15—"London Log."*
19.30—Selections from "Israel in
Egypt" (Handel).
20.00—Music-Hall.
21.00—"G-men."*
21.30-22.00—Royal Military College,
Sandhurst Band.
22.20—Stock Exchange Report, etc.
22.30—News.
22.50—Six-Day Bicycle Race com-
mentary.
23.05—Ballads.
23.30-00.00—"Three in Tempo."*

Transmission 5 (GSE, GSD,
GSB, GSB, GSB)
00.20—Stock Exchange Report, etc.
00.30—Music-Hall.*
01.30—"London Log."* 01.45—
News.
02.00-02.30—Big Ben; Antonio
Broza (Violin).

Transmission 6 (GSD, GSC,
GSB, GSB, GSB)
03.20—Stock Exchange Report, etc.
03.30—"Three in Tempo."*
04.00—"G-men."*
04.30—Welsh Choruses.*
05.00—Big Ben; News.
05.15-05.30—Cedric Sharpe (Cello).

BOMBAY

(31.4 m.)
03.00-04.00 and 08.30-09.30—News
(Hind., Eng.), Music from Delhi.
(61.48 m.)
13.30—Time; Indian Music.
14.30-18.00—News (Hind., Eng.)
and Music from Delhi.

BUDAPEST

(32.88 m.)
00.00-01.00 (Sun.)—Operetta Music;
News; Operetta Music; News
(Eng.); Operetta Music; News
(Slovak); Folk-Songs; News
(Ruthenian); Anthem.

DELHI

(19.62 m.; 31.28 m.)
03.00-04.30—Music; News; For
Schools; at 03.50—News (Eng.).
08.30-09.30—Music.
(31.28 m.; 60.49 m.)
13.30—News (Eng., Hind.), Music;
at 15.00 (31.28 m. only)—For
Villagers.
16.45-18.05—News (Eng., Hind.).
Music; at 17.05—Talk (Eng.);
T. E. Lawrence's Letters.

HUIZEN

(16.88 m.; 19.71 m.)
13.10-14.15—PHOHI Programme
for the Dutch Indies.

MELBOURNE

(25.25 m.)
04.15—Racing and Music.
08.30-09.15—For Children.
(31.32 m.)
09.30—Dinner Music; Sports.
10.15—International News.
10.30—News; Sports.
11.00—Mr. Walker wants to know.
11.10—Schnabel (Pfte.); Music.
12.10—ABC Symphony Orchestra.
Guest Conductor: Georg Szell.
13.00—Mastersingers' Quartet.
13.20—Records.
13.30—News; Markets; Records.
14.00-15.00—Dance Band.
(25.25 m.)
23.00—News; Music.
01.15—Books; Songs.

02.00—Service; Music.
03.30-04.30—Recorded Feature;
Music.

PARIS - MONDIAL

(19.68 m.)
12.00—News (Eng.), Music, Talk.
13.30—News; Talks.
(16.81 m.; 19.68 m.)
14.30-16.00—"Rousseau and his
Circle" (Dumesnil), and Ex-
cerpts, "Le devin du village"
—Comic Opera (Rousseau).
(41.21 m.)
16.15—News; Records.
17.05—Concert.
17.40—News (Fr., Arabic).
19.00—Variety Concert.
19.30—News (Fr., Arabic).
20.00—News (Eng., It.).
20.30—Concert.
22.30—Markets, News (Port.),
Talk.
(25.24 m.; 25.6 m.)
00.00—Variety in Spanish.
00.45—News (Fr., Sp.), Talk (Sp.).
01.30—News, Talk (Port.).
02.00-02.15—Records.
02.30—See 14.30.
03.15—News; Records.
04.00—News (Eng.); Talk.
04.35-05.00—Talk and News (Ger.).

ROME

(19.61 m.)
10.15—News, Music, News (Eng.).
(25.4 m.)
10.30—Music, News (Arabic).
(16.84 m.; 25.4 m.)
11.00—News (Fr.); Bizet Music.
12.00—News (Fr., Eng.); Songs;
News (Jap., It.); Opera.
(19.61 m.; 25.4 m.)
16.00—News (Fr., It.); Music;
News (Hindu., Eng.); Music.
(25.4 m.; 31.15 m.)
18.07—Talk, News, Music (Arabic).
19.01—News, Talk (Fr.).
19.18—News (Eng.).
(31.02 m.)
18.40—Talk (Esp.).
19.01-19.18—News (Pol.).
19.37—Songs; News (Serbo-Croat).
20.15—News; Talks (Greek);
Music.
(19.61 m.; 25.4 m.)
19.38-20.30—Opera Music; News.
(31.15 m.)
19.37—News and Talks (Hung.).
19.56—For Children, News (Turk.).
20.15—Johann Strauss Waltzes.
20.36—News, Mail (Ger.).
(19.61 m.; 31.02 m.)
21.00—From Turin (No. 1). In the
intervals, Talks (Gr., Fr., Eng.).
(31.15 m.)
23.30—News, Talk (Sp.).
23.45—Foreign Affairs (Gr.).
(31.02 m.)
00.00-00.15—News (Fr.).
00.16-00.30—News (Eng.).
(19.61 m.; 25.4 m.; 31.15 m.)
00.00—For Latin America: News
(Sp.); Music; News (It., Port.).
01.30-03.00—For U.S.A.: News
(Eng.); Chamber Music; Talk;
Italian Lesson; News.

TOKIO

Programme not received.

VATICAN CITY

(48.47 m.)
20.00—Talk (Fr.).
20.30—Christian Doctrine (Rus.).
21.00—Church News (Sp.).

WARSAW

(19.84 m.; 22 m.; 25.55 m.;
26.01 m.)
00.05 (Sun.)—Trio in E (Zelenski).
00.45—News (Eng.).
02.00—Talk (Eng.).
02.10—Dzierzanowski Band.

ZEESEN

(19.85 m.)
16.40—Call (Ger., Eng.); Music;
17.15—Talk; Farming.
(19.85 m.; 25.49 m.; 31.02 m.)
17.30—Trio in B flat (Brahms).
18.00—Greetings; Concert.
(19.85 m.; 25.49 m.; 31.02 m.;
49.83 m.)
18.30—Talk (Eng.); Austria.
18.45—News; Economic Review.
19.00—Variety Programme.
20.00 (on 25.49 m. and 49.83
m.)—News (Eng.); (on 19.85
m. and 31.02 m.); News
(Afrikaans).
20.15—Topical Talk.
20.45—Dance Music.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.42 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Greet-
ings.
23.00—Popular Concert.
23.45—News, Economic Review.
00.00—News, Economic Review
(Eng.).
00.15—Variety Programme.

American Page

Selected U.S.A. Short-Wave Programmes

Note: For complete time schedules of U.S. Short-Wave Stations see page 21.

All times are given in B.S.T. Figures after the call-sign letters indicate the station's wavelength in metres.

SUNDAY, May 28

- 13.00-17.00—Light Entertainment and Religious programmes (W2XE, 16.83).
 15.00—American String Quartet (W3XL, 16.87; W8XX, 19.72).
 15.00—Services (W1XAL, 19.83).
 15.30—Rakoy's Orch. in "Russian Melodies" (W3XL, 16.87; W8XX, 19.72).
 16.00—Melody Matinée ("Eroica" Symphony) (W3XL, 16.87).
 16.30—Major Bowes's "Family" (Variety) (W2XE, 16.83).
 17.00—Radio City Symphony Concert (W2XAD, 19.57).
 17.15—"Silver Tones" (W3XL, 16.87; W8XX, 19.72).
 17.30—For Stamp Collectors (W3XL, 16.87; W8XX, 19.72).
 18.00—Great Plays (Dramatisations) (W2XAD, 19.57).
 18.45—Swing Music (W3XL, 16.87).
 19.00—Symphony Concert (Frank Black's Orch.) (W2XAD, 19.57).
 20.00—Symphony Concert (Cond. Howard Barlow) (W2XE, 16.83).
 20.30—Festival of Music (Spitalny's Orch., Singers) (W2XAD, 19.57; W8XX, 25.26).
 21.00-23.00—Religious Programme (W1XAL, 25.58).
 21.30—Crawford "Caravan" (W2XAD, 19.57; W8XX, 25.26).
 21.30—"St. Louis Blues" (Musical) (W2XE, 16.83).
 22.30—Paul Wing's Spelling Bee (W2XAD, 31.48).
 22.30—Ben Bernie and his Orch. (in Variety) (W2XE, 16.83).
 23.00—"Music Please" (W8XX, 25.26).
 23.15—"Newspaper of the Air" (W8XX, 25.26).
 23.30—Grouch Club (W2XAF, 31.48).
 00.00—Jack Benny's "All-Star" Variety (W2XAF, 31.48).
 00.30—"Bandwagon" (Joe Sanders' Orch., guests) (W2XAF, 31.48).
 00.30—Screen Guild Concert (W3XAU, 49.5).
 01.00—"Charlie McCarthy's" Variety with Dorothy Lamour (W2XAF, 31.48; W8XX, 25.26).
 01.00—Dance Hour (W3XAU, 49.5).
 02.00—"Sunday Evening Hour" (W3XAU, 49.5).
 02.00—"Manhattan Merry-Go-Round" (W2XAF, 31.48).
 02.30—Album of Familiar Music with Frank Munn (Tenor) (W2XAF, 31.48; W8XX, 25.26).
 03.00—"Knickerbocker Playhouse" (Comedy, Music) (W3XAU, 49.5).
 03.00—"The Circle" (Radio Variety Club) (W2XAF, 31.48).
 04.00—Jack Teagarden's Dance Orch. (W3XAU, 49.5).
 04.00—Symphony Concert (Conductor: Erno Rapée) (W3XL, 49.18).
 04.05-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 04.30-05.00—CBS Dance Orchs. (W3XAU, 49.5).
 05.00-06.00—NBC Dance Orchs. (W8XX, 48.86; W3XL, 49.18).
 05.00-06.00—CBS Dance Orchs. (W2XE, 48.62).

MONDAY, May 29

- 12.30-15.00—Light Music and Entertainment (W2XE, 16.83).
 15.00—Musical Interlude (Franck et al.) (W3XL, 16.87).
 15.30—Jerry Sears' Orch. (W8XX, 19.72).
 16.00—"Melody Matinée" (Sibelius) (W3XL, 16.87).
 17.15—Kidoodlers (W2XAD, 19.57).
 18.00—"Cowbells and Cadenzas" (Light music) (W2XAD, 19.57).
 18.30—"Words and Music" (W2XAD, 19.57).
 18.40—Dance Music (W2XE, 16.83).
 18.45—Swing Music (W3XL, 16.87).
 19.00—"Adventures in Reading" (W2XAD, 19.57).
 19.00—"Americans at Work" (Dramatisation) (W2XE, 16.83).
 19.30—Alma Kittell (Contralto) (W2XAD, 19.57).
 19.45—Norman Clotier's Orch. (W2XAD, 19.57).
 20.30—Ohio State University Concert (W2XE, 16.83).

- 21.00—Symphonic Hour (W1XAL, 25.45).
 22.00—Dance "Hour" (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Nan Wynn (Vocalist) (W2XE, 16.83).
 22.45—Dance Music (W2XE, 16.83).
 23.00—Science Talk (W2XAF, 31.48).
 00.30—Eddie Cantor's Variety (W3XAU, 31.28).
 01.00—Al Pearce's Gang (Variety) (W8XX, 25.26).
 01.30—Margaret Speaks (Soprano) (Symph. Cnct.) (W2XAF, 31.48).
 02.00—Drama (W3XAU, 31.28).
 03.00—Dance Orch. (W3XAU, 31.28).
 03.00—"Contented Hour" (Music) (W2XAF, 31.48).
 04.00—Jack Teagarden's Orch. (W3XAU, 31.28).
 04.00-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 05.00-06.00—CBS Dance Orchs. (W3XAU, 31.28; W2XE, 48.62).
 05.00-06.00—NBC Dance Orchs. (W3XL, 49.18; W8XX, 48.86).

TUESDAY, May 30

- 12.30-15.00—Light Music and Entertainment (W2XE, 16.83).
 15.00—"Musical Interlude" (R. Strauss, Haydn) (W3XL, 16.87).
 16.00—"Melody Matinée" (Grieg, Mendelssohn) (W3XL, 16.87).
 17.00—Meet the Songwriter (W2XAD, 19.57).
 17.30—Science Talk (W8XX, 19.72).
 18.00—Music Makers (W2XAD, 19.57).
 18.45—Swing Music (W3XL, 16.87).
 18.45—"Dancing Moods" (W2XE, 16.83).
 19.30—"Little Variety Show" (W2XAD, 19.57; W8XX, 19.72).
 19.45—Columbia Concert Orch. (Cond.; Howard Barlow) (W2XE, 16.83).
 20.00—"Indiana Indigo" (Variety) (W2XAD, 19.57).
 21.00—"Clun Matinée" (Variety) (W2XAD, 19.57; W2XAF, 31.48).
 21.00—Understanding Music (W1XAL, 25.45).
 22.00—"Dance 'Hour'" (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Short-wave Mailbag and Future Programmes Information (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Tuesday Social (W1XAL, 25.45).
 22.45—Dance Music (W2XE, 16.83).
 23.00—Rhythmaires (Dance records) (W2XAF, 31.48).
 01.00—Drama with Ed. G. Robinson (W3XAU, 49.5).
 01.30—Dick Powell, Lud Gluskin's Orch. (Variety) (W3XAU, 49.5).
 02.45—Benny Goodman's Orch. (W3XAU, 49.5).
 02.30—Fiber McGee and Co. (W2XAF, 31.48).
 03.00—Bob Hope's "All-Star" Variety (W2XAF, 31.48).
 03.30—Uncle Walter's Dog House (Comedy) (W2XAF, 31.48).

WEDNESDAY, May 31

- 12.30-15.00—Light Music and Entertainment (W2XE, 16.83).
 16.00—"Melody Matinée" (Brahms) (W3XL, 16.87).
 17.15—Kidoodlers (W2XAD, 19.57).
 17.30—American Aviation (Talk) (W3XL, 16.87; W8XX, 19.72).
 18.30—"Words and Music" (W2XAD, 19.57).
 18.45—Swing Music (W3XL, 16.87).
 19.30—U.S. Marine Band (W2XAD, 19.57; W8XX, 19.72).
 20.00—Swingtime Trio (W2XAD, 19.57).
 21.00—"Club Matinée" (Variety) (W2XAD, 19.57; W2XAF, 31.48).
 21.00—Fact Finder (W2XE, 16.83).
 21.15—Dance Music (W2XE, 16.83).
 22.00—"Dance 'Hour'" (W2XAD, 19.57; W2XAF, 31.48).
 22.15—Aviation Talk (W1AL, 25.45).
 22.30—Science Talk (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Benny Goodman's Orch. (W2XE, 16.83).

NEWS

- 12.45—W2XE, 16.83 (M.-F.).
 13.00—W8XX, 19.72 (M.-Sa.).
 14.00—W3XL, 16.87 (M.-Sa.).
 14.00—W8XX, 19.72 (M.-F.).
 14.25—W2XE, 16.83 (Su., Sa.).
 17.00—W3XL, 16.87 (Daily).
 17.00—W8XX, 19.72 (Daily).
 17.30—S3XAU, 19.65 (M.-Sa.).
 18.00—W3XL, 16.87 (Daily).
 18.30—W2XE, 16.83 (M.-F.).
 20.30—W1XAL, 25.45 (M., W., Th., Sa.).
 21.55—W2XAD, 19.57 (M.-Sa.).
 21.55—W2XAF, 31.48 (M.-Sa.).
 22.50—W2XE, 25.36 (Tu., Th., F.).
 23.00—W2XE, 25.36 (W.).
 23.00—W1XAL, 25.45 (M., Tu., W., Th., Sa.).
 23.25—W2XAF, 31.48 (M.-F.).
 03.00—W3XL, 49.18 (Daily).
 03.00—W8XX, 25.26 (M.-F.).
 04.00—W8XX, 48.86 (Su.-F.).
 04.00—W2XAF, 31.48 (Su.).
 04.30—W8XX, 48.86 (Sa. only).

STOCKS

- 15.45—W8XX, 19.72 (M.-Sa.).
 17.15—W8XX, 19.72 (M.-Sa.).
 17.30—W3XAU, 19.65 (M.-F.).
 18.30—W3XL, 16.83 (M.-F.).
 21.15—W8XX, 25.26 (M.-F.).
 22.50—W2XE, 16.83 (M.-F.).
 00.00—W2XAF, 31.48 (M.-Sa.).
 Su.—Sunday; M.—Monday; Tu.—Tuesday; W.—Wednesday; Th.—Thursday; F.—Friday; Sa.—Saturday.

- 00.30—"Ask-It-Basket" (Gen. Knldge, Bee) (W3XAU, 49.5).
 01.00—"Gang Busters" (Anti-crime drama) (W3XAU, 49.5).
 01.30—Paul Whiteman's Orch. (W3XAU, 49.5).
 01.30—Tommy Dorsey's Orch. (W8XX, 25.26).
 02.00—"Star Theatre" (Variety) (W3XAU, 49.5).
 02.05—Town Hall To-Night (Variety) (W2XAF, 31.48).

WHAT THEY MEAN

Brief Synopses of some of the selected U.S. Programmes.

"MUSIC MAKERS" (W2XAD, Tues. 18.00)
 —Instruction in music and singing by Dr. Joseph Maddy, Director of the National Music Camp at Interlochen, Michigan.
 "SWEET AND LOW" (W2XAF, Thur. 23.30)
 —Musical programme featuring Jerry Sears and his Orchestra, Lucille Linwood (vocalist).
 "UNCLE WALTER'S DOG HOUSE," sparkling new comedy programme calculated to bring solace to men who find themselves in the "dog house" as the result of incurring the disfavour of their wives or sweethearts, made its bow over W2XAF on Tuesday last at 03.30, and will

be continued every Tuesday at the same time. Tom Wallace, popular radio comedian, takes the rôle of Uncle Walter, assisted by Phil Davis and his Orchestra, the Dog House male quartet, and Sweet Adeline, featured vocalist. Letters submitted by listeners on the subject "How I Got Out of the Dog House" form the bases for the dramatisations.

"WORDS AND MUSIC" (W2XAD, Wed., Thur., Fri. 18.30)—Light musical programmes, featuring Ruth Lyon (soprano), Edward Davies (baritone), Larry Larsen (organ), Harvey Hays (narrator).

- 03.00—"99 Men and a Girl" (Music) (W3XAU, 49.5).
 03.00—Kay Kyser's College (Comedy, Music) (W2XAF, 31.48).
 03.30—"It Can Be Done" (Dramatisations) (W3XAU, 49.5).
 04.00-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 04.00-05.00—Dance Orchs. from CBS Networks (W3XAU, 49.5).
 05.00-06.00—Dance Orchs. from CBS Networks (W2XE, 48.62).
 05.00-06.00—NBC Dance Orchs. (W3XL, 49.18; W8XX, 48.86).

THURSDAY, June 1

- 12.30-15.00—Light Music and Entertainment (W2XE, 16.83).
 15.00—"Musical Interlude" (Verdi) (W3XL, 16.87).
 16.00—"Melody Matinée" (R. Strauss) (W3XL, 16.87).
 17.15—Dance Music (W3XL, 16.87).
 18.15—Jive Five (W2XAD, 19.57).
 18.30—"Words and Music" (W2XAD, 19.57).
 18.45—Swing Music (W3XL, 16.87).
 18.45—Rakoy's Orch. (W2XAD, 19.57).
 19.15—Opera Selections (W3XL, 16.87).
 19.30—Light Opera (W2XAD, 19.57; W8XX, 25.26).
 20.00—"Grand Slam" Revue (W2XAD, 19.57; W8XX, 25.26).
 20.30—Sonata Recital (W2XE, 16.83).
 20.30—"Hoosier Hop" (Variety) (W2XAD, 19.57).
 21.00—"Smile Parade" (Variety) (W2XAD, 19.57; W2XAF, 31.48).
 21.15—Ray Bloch's Varieties (W2XE, 16.83).
 21.30—Rhythm Auction (W2XAD, 19.57; W2XAF, 31.48).
 22.00—"Dance 'Hour'" (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Science Forum (W2XAD, 19.57; W2XAF, 31.48).
 22.45—Dance Music (W2XE, 16.83).
 22.45—Vaughan de Leath (Vocalist) (W8XX, 25.26).
 23.30—"Sweet and Low" (Orch., vocalist) (W2XAF, 31.48).

- 00.30—Joe E. Brown's Variety (W3XAU, 31.28).
 01.00—Kate Smith's Variety (W3XAU, 31.28).
 02.00—Major Bowes's Amateurs (W3XAU, 31.28).
 02.05—"Good News" (Variety) (W2XAF, 31.48).
 03.00—Andre Kostelanetz's Orch. (in Variety) (W3XAU, 31.28).
 03.00—Bing Crosby's Music-Hall (W2XAF, 31.48).
 04.00-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 04.00-05.00—Dance Orchs. from CBS Networks (W3XAU, 31.28).
 05.00-06.00—CBS Dance Orchs. (W3XAU, 49.5).
 05.00-06.00—NBC Dance Orchs. (W3XL, 49.18; W8XX, 48.86).

FRIDAY, June 2

- 12.30-15.00—Light Music and Entertainment (W2XE, 16.83).
 15.00—"Musical Interlude" (Verdi) (W3XL, 16.87).
 16.00—"Melody Matinée" (Bach, et al.) (W3XL, 16.87).
 17.00—"Meet the Artist" (Interviews) (W2XAD, 19.57).
 17.15—Dance Music (W3XL, 16.87).
 18.30—"Words and Music" (W2XAD, 19.57).
 18.45—Dance Music (W2XE, 16.83).
 18.45—Swing Music (W3XL, 16.87).
 19.00—Music Appreciation Hour (W2XAD, 19.57).
 20.30—Chamber Orch. (W2XE, 16.83).

- 21.00—"Club Matinée" (Variety) (W2XAD, 19.57; W2XAF, 31.48).
 21.15—Matinée Promenade Concert (W2XE, 16.83).
 22.00—"Dance 'Hour'" (W2XAD, 19.57; W2XAF, 31.48).
 22.00—Television Course (Tuition) (W1XAL, 25.45).
 22.15—Programmes Information (W2XAD, 19.57; W2XAF, 31.48).
 22.30—Patterns in Swing (Music) (W2XE, 16.83).
 01.00—"First Nighter" (Drama) (W3XAU, 49.5).
 01.00—Lucille Manners (Soprano) and others (W2XAF, 31.48).
 01.30—Burns and Allen Variety (W3XAU, 49.5).
 01.30—Aviation Talk (W1XAL, 25.58).
 02.05—"Waltz Time" with Frank Munn (Tenor) (W2XAF, 31.48).
 02.30—March of Time (News dramatisation) (W2XAF, 31.48).
 03.00—Guy Lombardo's Orch. (W2XAF, 31.48).
 03.30—R. Ripley (W3XAU, 49.5).
 04.00-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 04.00-05.00—Dance Orchs. from CBS Networks (W3XAU, 49.5).
 04.30—Cab Calloway's Orch. (W3XAU, 49.5).
 05.00-06.00—NBC Dance Orchs. (W3XL, 49.18; W8XX, 48.86).
 05.00-06.00—CBS Dance Orchs. (W2XE, 49.02).

SATURDAY, June 3

- 13.00-17.00—Light Music and Entertainment (W2XE, 16.83).
 15.00—"Musical Interlude" (Verdi) (W3XL, 16.87).
 15.30—"Swing Serenade" (W8XX, 19.72).
 16.00—"Melody Matinée" (Bach) (W3XL, 16.87).
 16.00—Music Internationale (W8XX, 19.72; W2XAD, 19.57 at 16.15).
 18.00—Enoch Light's Orch. (W2XE, 16.83).
 18.00—Jean Ellington (Vocalist) (W2XAD, 19.57).
 18.15—For Stamp Collectors (W2XAD, 19.57).
 18.45—Swing Music (W3XL, 16.87).
 19.15—Metropolitan Opera (W8XX, 19.72).
 20.00—"It's Up To You" (Audience participates) (W2XAD, 19.57).
 20.30—Al Roth's Orch. (W2XAD, 19.57).
 21.00—"Club Matinée" (Variety) (W2XAD, 19.57).
 21.00—Dol Brissett's Orch. (W2XAF, 31.48).
 21.30—Southwestern Stars (Variety) (W2XAF, 31.48).
 21.45—Dancepators Dance Orch. (W2XE, 16.83).
 22.00—Dance Music (W2XAD, 19.57).
 22.00—"Three Cheers" (Revue) (W2XAF, 31.48).
 22.00—Jack Marshall's Dance Orch. (W2XE, 16.83).
 22.30—"What Price America?" (Political) (W2XE, 16.83).
 23.15—Dinner Concert (W8XX, 25.26).
 23.30—Gray Gordon's Orch. (W2XAF, 31.48).
 00.30—Lives of Great Men (Dramatisation) (W2XAF, 31.48).
 00.30—Question Bee (W8XX, 25.26).
 01.00—"Johnny Presents" (Variety with Johnny Green's Orch.) (W3XAU, 31.28).
 01.00—"Quaker Party" (Variety) (W2XAF, 31.48).
 01.30—"Professor Quiz" (General Knowledge Bee) (W3XAU, 31.28).
 01.30—"Avalon Time" (Variety) (W2XAD, 31.48).
 02.00—Phil Baker's Variety, with Andrews Sisters and others (W3XAU, 31.28).
 02.15—"National Barndance" (Rural Variety) (W8XX, 25.26).
 02.30—"Saturday Night Serenade" (W3XAU, 31.28).
 02.30—"Hall of Fun" (Variety) (W2XAF, 31.48).
 03.00—"Hit Parade" (W3XAU, 31.28).
 03.00—NBC Symphony Orch. (W8XX, 25.26).
 03.00—Arch. Oboler's Plays (W2XAF, 31.48).
 04.00-05.00—Dance Orchs. from NBC Networks (W2XAF, 31.48).
 04.00-07.00—CBS Dance Orchs. (W2XE, 49.02).
 04.45-05.30—NBC Dance Orchs. (W8XX, 48.86).
 05.00-06.00—NBC Dance Orcha. (W3XL, 49.18).

America Hour-by-Hour

This time-table gives a complete list of American Short-Wave Broadcasting Stations, their wavelengths, frequencies, power and direction of aerals, hour-by-hour throughout the day and night.

All times are given in British Summer Time.

All periods are daily (including Sundays) unless otherwise indicated.

Su.—Sundays; M.—Mondays; Tu.—Tuesdays; W.—Wednesdays; Th.—Thursdays; F.—Fridays; Sa.—Saturdays.

* Aerial directional to Europe.
† Aerial directional to Central or South America.

(Non-directional aerial unless otherwise indicated.)

(a) May, July, September.
(b) June, August, October.

11.30—12.30

W8XK 13.93 m.* M.-Sa.

12.30—13.00

W8XK 13.93 m.* M.-Sa.
W2XE 16.83 m.* M.-F.

13.00—14.00

W8XK 13.93 m.*
W2XAD 13.95 m.†
W2XE 16.83 m.*

14.00—15.00

W3XAL 13.87 m.†
W2XAD 13.95 m.†
W2XE 16.83 m.*
W3XL 16.87 m.*
W8XK 19.72 m.*†
W1XK 31.35 m.

15.00—16.00

W3XAL 13.87 m.†
W2XAD 13.95 m.†
W2XE 16.83 m.* Su. Sa.
W3XL 16.87 m.*
W8XK 19.72 m.*†
W1XK 31.35 m.

16.00—16.15

W3XAL 13.87 m.†
W2XE 16.83 m.* Su. Sa.
W3XL 16.87 m.*
W8XK 19.72 m.*†
W1XK 31.35 m.

16.15—16.45

W3XAL 13.87 m.†
W2XE 16.83 m.* Su. Sa.
W3XL 16.87 m.*
W2XAD 19.57 m.*
W8XK 19.72 m.*†
W1XK 31.35 m.

16.45—17.00

W3XAL 13.87 m.†
W2XE 16.83 m.* Su. Sa.
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.* M.-Sa.
W8XK 19.72 m.*†
W1XK 31.35 m.

17.00—17.30

W3XAL 13.87 m.†
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.* M.-Sa.
W8XK 19.72 m.*†
W1XK 31.35 m.

17.30—17.45

W3XAL 13.87 m.†
W2XE 16.83 m.* Su. Sa.

W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.* M.-Sa.
W8XK 19.72 m.*†
W1XK 31.35 m.

17.45—18.00

W3XAL 13.87 m.†
W2XE 16.83 m.* Su. Sa.
W3XL 16.87 m.*
W2XAD 19.57 m.*
W8XK 19.72 m.*†
W1XK 31.35 m.

18.00—18.30

W2XE 16.83 m.*
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.† Su. Sa.
W8XK 19.72 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.

18.30—19.00

W2XE 16.83 m.*
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.†
W8XK 19.72 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.

19.00—21.00

W2XE 16.83 m.*
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.*
W8XK 25.26 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.

21.00—22.00

W2XE 16.83 m.*
W3XL 16.87 m.*
W2XAD 19.57 m.*
W3XAU 19.65 m.†
W8XK 25.26 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAF 31.48 m.

22.00—23.00

W2XE 16.83 m.*
W3XL 16.87 m.†
W2XAD 19.57 m.*
W3XAU 19.65 m.†
W8XK 25.26 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAF 31.48 m.

23.00—23.15

W3XL 16.87 m.†
W3XAU 19.65 m.† M.-Sa.
W8XK 25.26 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAF 31.48 m.

23.15—23.30

W3XL 16.87 m.†
W8XK 25.26 m.*†
W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAD 31.41 m.†
W2XAF 31.48 m.

23.30—00.00

W3XL 16.87 m.†
W2XE 19.65 m.†
W8XK 25.26 m.*†

W3XAL 31.02 m.†
W3XAU 31.28 m.† M. Th.
W1XK 31.35 m. [Sa.]
W2XAD 31.41 m.†
W2XAF 31.48 m.†
W3XAU 49.5 m.† Tu. W. [F.]

00.00—00.15

W3XL 16.87 m.†
W2XE 19.65 m.†
W8XK 25.26 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.† M. Th.
W1XK 31.35 m.
W2XAD 31.41 m.†
W2XAF 31.48 m.†
W3XAU 49.5 m.† Tu. W. [F.]

Do not destroy this time-table.
It will be repeated only as often as alterations in the stations' schedules make corrections necessary.

00.15—00.30

W3XL 16.87 m.†
W2XE 19.65 m.†
W8XK 25.26 m.†
W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAD 31.41 m.†
W2XAF 31.48 m.†

00.30—01.30

W3XL 16.87 m.†
W2XE 19.65 m.†
W8XK 25.26 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAD 31.41 m.†
W2XAF 31.48 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

01.30—02.00

W3XL 16.87 m.†
W8XK 25.26 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAD 31.41 m.†
W2XAF 31.48 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

02.00—02.15

W3XL 16.87 m.†
W8XK 25.26 m.†
W2XE 25.36 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAD 31.41 m.†

02.15—03.00

W2XAF 31.48 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]
W3XL 16.87 m.†
W8XK 25.26 m.†
W2XE 25.36 m.†
W3XAL 31.02 m.†

W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAF 31.48 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

03.00—04.00

W8XK 25.26 m.†
W2XE 25.36 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAF 31.48 m.†
W3XL 49.18 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

04.00—04.30

W2XE 25.36 m.†
W3XAL 31.02 m.†
W3XAU 31.28 m.* M. Th.
W1XK 31.35 m. [Sa.]
W2XAF 31.48 m.†
W8XK 48.86 m.†
W3XL 49.18 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

04.30—05.00

W3XAL 31.02 m.†
W1XK 31.35 m.
W2XAF 31.48 m.†
W8XK 48.86 m.†
W3XL 49.18 m.†
W3XAU 49.5 m.* Su. Tu. [W. F.]

05.00—06.00

W3XAL 31.02 m.†
W3XAU 31.28 m.† M. Th.
W1XK 31.35 m.
W2XE 48.62 m.† (a)
W8XK 48.86 m.†
W2XE 49.02 m.† (b)
W3XL 49.18 m.†
W3XAU 49.5 m.† Sa.

06.00—07.00

W3XAU 49.5 m.† Sa.

Logging Chart

Those possessing a set with a vernier scale should, as they locate a station, make a note of its reading in the space provided above the appropriate dotted line. It will enable the station to be tuned in easily and quickly next time it is desired to listen to it.

Logging should not be attempted until the set has been running for fifteen to twenty minutes, as tuning may not be quite normal until the instrument is thoroughly warmed up.

W1XAL — Boston, Mass. (World - Wide Broadcasting Foundation)	25.36 m. (11.83 Mc/s) 10 kW
NOTE.—This station is not included in the Time-table, as its operating schedule varies from month to month.	31.09 m. (9.65 Mc/s) 10 kW
	48.62 m. (6.17 Mc/s) 10 kW (a).....
	49.02 m. (6.12 Mc/s) 10 kW (b).....
13.99 m. (21.46 Mc/s) 20 kW	
19.67 m. (15.25 Mc/s) 20 kW	
19.83 m. (15.13 Mc/s) 20 kW	
25.45 m. (11.79 Mc/s) 20 kW	
25.58 m. (11.73 Mc/s) 20 kW	
49.67 m. (6.04 Mc/s) 20 kW	
W1XK—Millis, Mass. (Westinghouse)	
31.35 m. (9.57 Mc/s) 10 kW	
W2XAD — Schenectady, N.Y. (General Electric)	
13.95 m. (21.50 Mc/s) 20/25 kW.....	
19.57 m. (15.33 Mc/s) 20/25 kW.....	
31.41 m. (9.55 Mc/s) 20/25 kW.....	
W2XAF — Schenectady, N.Y. (General Electric)	
31.48 m. (9.53 Mc/s) 20/25 kW.....	
W2XE—Wayne, New Jersey (CBS)	
13.91 m. (21.57 Mc/s) 10 kW	
16.83 m. (17.83 Mc/s) 10 kW	
19.65 m. (15.27 Mc/s) 10 kW	
48.86 m. (6.14 Mc/s) 28 kW	
W3XAL—Bound Brook, New Jersey (NBC)	
13.87 m. (21.63 Mc/s) 25 kW	
31.02 m. (9.67 Mc/s) 25 kW	
W3XAU—Philadelphia, Pa. (CBS)	
13.94 m. (21.52 Mc/s) 10 kW	
19.65 m. (15.27 Mc/s) 10 kW	
31.28 m. (9.59 Mc/s) 10 kW	
49.5 m. (6.06 Mc/s) 10 kW	
W3XL—Bound Brook, New Jersey (NBC)	
16.87 m. (17.78 Mc/s) 25 kW	
49.18 m. (6.10 Mc/s) 25 kW	
W8XK—Pittsburgh, Pa. (Westinghouse)	
13.93 m. (21.54 Mc/s) 6 kW	
19.72 m. (15.21 Mc/s) 18 kW	
25.26 m. (11.87 Mc/s) 24 kW	
48.86 m. (6.14 Mc/s) 28 kW	

NOTE.—All the wavelengths and frequencies given in this Logging Chart are not necessarily in constant use.

What Would You Like To Hear ?

	SUNDAY, May 28	MONDAY, May 29	TUESDAY, May 30	WEDNESDAY, May 31	THURSDAY, June 1	FRIDAY, June 2	SATURDAY, June 3	
Symphony Concerts	2.0 Paris (PTT): "Werther." 7.10 Beromünster: Haydn, etc. 8.0 Deutschlandsender: "Falstaff." 8.30 Cologne: Siegfried Wagner. 8.30 Munich: "Oberon" (Weber). 8.30 Radio-Paris: Bach, Brahms. 9.0 Rome Group: "Sicilian Vespers" (Verdi). 10.0 Budapest: Ravel, Debussy. 10.0 Hilversum 2: Mendelssohn. 10.15 Kalundborg: Mendelssohn programme.	6.0 Regional: Handel masque. 6.10 Hilversum 1: Religious music. 7.0 Prague: "Libuša" (Smetana). 7.30 Vienna: "The Bartered Bride." 8.0 Brussels 1, Eiffel Tower: "Les faux mendiants." 8.30 Lille: Beethoven No. 7, etc. 8.30 Radio-Paris: "Christopher Columbus" (Milhaud).	5.0 Brussels 2: Liszt, Berlioz, etc. 7.55 Hilversum 1: Orchestra, vln. 8.0 Berlin: "Don Giovanni" (rec.). 8.0 Bucharest: Yugoslav music. 8.15 Deutschlandsender: Orch., cello. 8.15 Vienna: Haydn programme. 8.30 Hamburg: Debussy, Schumann. 8.30 Regional, National (10.10): "Tristan and Isolde." 9.0 Turin Group: "Sicilian Vespers." 9.10 Prague: Smetana, Dvořák.	8.0 Brno: Brahms No. 2, etc. 8.15 Leipzig, etc.: Haydn opera. 8.15 National: "La Traviata." 8.15 Sottens: "Le Chalet" (Adam). 8.25 Stockholm: Orchestra, cello. 8.30 Strasbourg: "Spain in Music." 9.0 Brussels 2: Conductor, André. 9.0 Naples Group: "Andrea Chénier" (Giordano). 9.0 Rome Group: Beethoven, Brahms. 10.20 Kalundborg: Schubert, Ravel.	3.15 National: Soloist, Melsa (vln.). 5.15 Eiffel Tower: Orch., choir, etc. 6.35 National: "Comus" (Arne). 7.30 Budapest: "The Magic Flute" (from the Opera House). 8.15 Breslau: Hungarian composers. 8.30 Radio-Paris: "La nuit enbaumée." 9.0 Brussels 1: Studio opera, etc. 9.0 Rome Group: "Poliuto" (Donizetti). 9.30 Stockholm: Sibelius.	8.10 Bucharest: "Tosca" (Puccini). 8.15 Berlin, etc.: "Don Pasquale" (Donizetti). 8.15 Munich: German composers. 8.15 Strasbourg, etc.: "Faust" (Berlioz), Roussel ballet. 8.15 Warsaw: "Macbeth" (Verdi). 8.30 Paris (PTT), Lille "Pelléas et Mélisande" (Debussy). 11.0 Budapest: Mozart, Dohnányi. 11.0 Deutschlandsender: Brahms. 11.0 Radio-Paris: Serenade.	3.0 Brussels 1: Schubert, Rachmaninoff, Tchaikovsky. 7.30 Regional: Handel. 8.0 Regional: Sir Hamilton Harty. 8.30 Brussels 2, Eiffel Tower: Flemish composers, Mendelssohn, etc. 8.30 Rennes: Haydn, Mozart, etc. 9.0 Turin Group: "Poliuto" (Donizetti).	
Chamber Music Recitals	2.55 Hilversum 1: Violin, pfte. 6.20 Sottens: Organ. 6.25 Vienna: Songs, quartet. 7.0 Eiffel Tower: Song, pfte. 7.0 Hamburg: German songs. 7.50 Warsaw: Violin, pfte. (rec.). 8.5 Sottens: Swiss music. 9.5 Regional: Irene Scharrer (pfte.). 10.20 Deutschlandsender: Vla., pfte. 10.25 Turin Group: Chamber Orch. 11.0 Kalundborg: Nielsen quartet.	5.0 Eiffel Tower: Wind Trio. 5.35 Paris (PTT): Organ. 6.0 Cologne: Song, vln., pfte. 6.0 Leipzig: Quartet, song, etc. 7.25 Oslo: Pfte. (Brahms). 7.30 Stockholm: Pianoforte. 8.0 National: Roy Henderson. 8.15 Kalundborg: Violin. 9.0 Paris (PTT): Hewitt Ensemble. 9.30 Brussels 1: Lecture-recital. 9.45 Rome Group: Pfte., violin. 10.20 Deutschlandsender: Quartet, etc. 10.30 Stockholm: Quartet.	2.0 Kalundborg: Whitsun concert. 3.15 Radio-Paris: Song, cello. 6.20 Leipzig: Pfitzner prog. 6.40 Budapest: Vocal ensemble. 7.0 Lille: Pianoforte. 7.40 Beromünster: Old violin music. 10.0 Bratislava: Quartet. 10.15 Radio-Paris: Trio (Saint-Saëns), songs. 10.15 Warsaw: Violin. 10.20 Deutschlandsender: Vln., pfte. 10.20 Leipzig: Quartet, etc. 11.0 Budapest: Violin.	5.0 Brussels 2: Quartets. 6.0 Regional: Lance Dossor (Pfte.). 6.25 Breslau: Trio (Beethoven). 6.35 Cologne: C. P. E. Bach prog. 7.25 Oslo: Choir. 8.15 Berlin: Violin, pfte. 9.0 Warsaw: Chopin. 9.10 Hilversum 1: Quintet, etc. 9.30 Beromünster: Scottish and Hebridean folk songs. 9.50 Hilversum 2: Violin, pfte. 10.15 Frankfurt: Haydn. 10.35 Hamburg: Handel, Bach, etc.	5.5 Radio-Paris: Song, clarinet. 5.30 Prague: Violin, pfte. 5.35 Paris (PTT): Organ, song. 6.15 Deutschlandsender: Vln., pfte. 6.30 Vienna: Pianoforte. 7.55 Bucharest: Pianoforte. 7.55 Hilversum 1: Choir. 8.45 Oslo: Violin. 9.30 National: Quartet (Dohnányi). 10.0 Bratislava: Song, pfte. 10.0 Budapest, Deutschlandsender, Turin Group: Dohnányi (pfte.).	3.55 Hilversum 1: Quartet, etc. 5.0 Brussels 2: Pianoforte. 5.5 Radio-Paris: Quartet. 6.20 Königsberg: Organ, choir. 7.0 Eiffel Tower: Pfte., cello. 7.25 Budapest: Palestrina. 7.35 Radio-Eireann: Cello. 8.50 Kalundborg: Borovsky (pfte.). 9.0 Eiffel Tower: Quintet, etc. 9.0 Sottens: Viola, cello. 9.25 Prague: Quartet. 10.20 Deutschlandsender: Vln., viola.	3.15 Radio-Paris: Viola d'amore. 5.50 Paris (PTT): Song, violin. 7.0 Beromünster: Chimes of Zürich Churches. 7.0 Eiffel Tower: Italian music. 7.15 Bucharest: Organ, song. 8.30 Brussels 1: Panžera (lecture-recital). 10.20 Deutschlandsender: Chamber Orchestra, viola. 10.35 Rome Group: Schumann, Weber.	
Plays and Feature Programmes	3.0 Brussels 1: "Le Courrier de Lyon." 6.15 Radio-Paris: Whitsun play. 8.30 Paris (PTT): "Le Président Haudecœur." 9.0 Stockholm: Play. 9.30 Eiffel Tower: "Feu de joie."	7.15 Sottens: Micro-Magazine. 7.30 Budapest: "The Golden Bastion" (Surányi). 8.30 Rennes: "L'exaltation." 9.40 Naples Group: One-act play. 10.55 Paris (PTT): Esperanto play.	7.55 Bratislava: "Le malade imaginaire" (Molière). 8.30 Radio-Paris: "Du matin à minuit." 9.0 Stuttgart: "Der Schwarzkünstler." 10.50 Cologne: Play about Bizet.	7.15 Sottens: Micro-Magazine. 8.0 Kalundborg: Historical play. 8.15 Brussels 1: "Le Glorieux." 8.30 Eiffel Tower: "Ce monsieur qui passe." 8.30 Radio-Paris: "Gascony." 8.40 Hilversum 2: "Danton."	2.30 Radio-Paris: "Joseph Conrad." 5.35 Bordeaux-Lafayette: "Henry of Navarre." 7.5 Radio-Paris: "Song through the Ages."	8.0 Prague: Comedy. 8.0 Stockholm: "The Clasp Hands." 8.30 Naples Group: Three-act play. 8.30 Paris (PTT): "La naissance de Tristan" (Delaquys). 9.15 Warsaw: "The Bridge."	7.15 Sottens: Micro-Magazine. 8.5 Beromünster: "Im Wartesaal." 8.30 Radio-Paris: "Heart to Heart." 9.0 Turin Group: Three-act play. 9.20 Kalundborg: Detective play.	8.30 Lille: "Le duel" (Lavedan). 9.0 Rome Group: "Fratre mare" (with music). 9.0 Vienna: Folk play.
Talks Commentaries		7.50 Stockholm: "The New York World Fair." 9.50 Regional: Six Day Bicycle Race. 10.30 Radio-Paris: "Verlaine."	2.0 Radio-Paris: "Three Mediaeval Heresies." 7.10 Beromünster: League of Nations Report.		5.5 Paris (PTT): "Massenet." 7.0 Radio-Eireann: "Haydn in London." 10.0 Beromünster: Talk in English: "Switzerland."	5.30 Lille: English talk ("Wayfarer"). 7.15 Oslo: Sweden v. Norway (football). 8.0 Regional: Royal Tournament.	1.0 National: Cricket commentaries. 6.15 Budapest: Italy v. Hungary (football). 9.30 National: American Commentary.	
News in English	7.18 12.16, Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.50, Budapest; 11.5, Warsaw.	5.30 Lille; 7.18; 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.50, Budapest.	7.18, 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.45, Bucharest; 10.50, Budapest.	5.30 Lille; 7.18, 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.30, Bratislava.	7.18, 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.45, Bucharest; 10.50, Budapest.	7.18, 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.0, Kuldiga; 10.50, Budapest.	7.18, 12.16 (a.m.), Rome 1; 8.15, 10.15, Cologne; 8.15, 10.20, Hamburg; 10.45, Bucharest; 10.50, Budapest.	
Bands Light Orchestral Operettas	12.0 Kalundborg: Radio Orchestra. 1.15 Radio-Paris: Visciano Orch. 5.0 Brussels 1: Light music. 6.0 Berlin: Band concert. 7.5 Radio-Paris: Eddie Foy Band. 7.55 Hilversum 2: KRO Orchestra. 8.0 Bucharest: Radio Orchestra. 8.0 Stockholm: Popular classics. 8.15 Berlin: Operetta music. 8.15 Strasbourg: Opera music. 8.15 Vienna: Popular prog. 8.30 Naples Group: Musical comedy. 9.15 Königsberg: Joh. Strauss prog. 9.15 Sottens: Suisse romande Orch. 9.35 Prague: Czech composers. 10.0 Bratislava: Cigány Band. 10.15 Oslo: Italian music. 10.30 Most German Stations: Light music, dances. 11.20 Budapest: Cigány Band. 12.0 Hamburg, etc.: Operetta music, etc.	12.0 Kalundborg: Preil's Ensemble. 12.55 Hilversum 1: Salon Orchestra. 4.0 Kalundborg: Open-air concert. 5.25 Munich: Franconian folk music. 7.5 Radio-Paris: Ellis Orchestra. 7.30 Bratislava: Band concert. 8.0 Hilversum 2: Opera, operetta music. 8.15 Frankfurt: Lehár operetta. 8.15 Leipzig, etc.: Künneke prog. 8.20 Stockholm: "The Desert Song." 8.30 Cologne: Whitsun programme. 8.30 Naples Group: "Melody and Rhythm." 9.0 Regional: "Under your Hat." 9.0 Strasbourg: Opera, optta. music. 9.0 Turin Group: "Frasquita." 9.20 Kalundborg: "Die Fledermaus." 10.0 Budapest: Cigány Band. 10.35 Most German Stations: Light music.	12.0 Kalundborg: Preil's Ensemble. 1.5 Radio-Paris: Derveaux Orch. 4.40 Hilversum 1: KRO Melodists. 7.0 Hamburg, etc.: Popular prog. 7.0 Leipzig: Folk songs, dances. 8.0 Brussels 1: Albeniz, etc. 8.0 Kalundborg: Radio Orchestra. 8.15 Breslau: Dellinger prog. 8.15 Radio-Eireann: Orchestra, soprano. 8.15 Stuttgart: Popular prog. 8.30 Montpellier, etc.: Orch., violin, song. 8.30 Paris (PTT): Old-time favourites. 8.40 Budapest: Weber, Saint-Saëns. 9.0 Rome Group: Musical comedy. 9.30 Stockholm: Radio Orchestra. 9.40 Naples Group: Dances, etc. 10.15 Oslo: Stavanger Radio Orch. 10.30 Kalundborg: Variety concert. 11.0 Poste Parisien: Jazz music.	2.30 Kalundborg: Rydahl's Ensemble. 5.5 Radio-Paris: Light music. 5.10 Hilversum 2: VARA Orch. 6.30 Paris (PTT): Giardino Orch. 6.55 Warsaw: Light music. 7.0 Radio-Eireann: Irish folk music. 8.0 Prague: Orch., soprano. 8.10 Bratislava: Variety music. 8.15 Deutschlandsender: Band. 8.30 Hamburg: Variety concert. 8.30 Lille: Popular programme. 8.35 Oslo: Songs and dances. 9.0 Berlin: Operetta, film music. 9.30 Sottens: Suisse romande Orch. 10.0 Budapest: Cigány Band. 10.0 Radio-Paris: Conductor, Wolff. 10.0 Turin Group: Band, choir. 10.10 Bucharest: Restaurant Orch. 10.30 Most German Stations: Variety concert.	12.0 Kalundborg: Restaurant Orch. 1.10 Radio-Paris: Victor Pascal Orch. 3.5 Paris (PTT): Ellis Orchestra. 5.10 Munich: Orch., cello, etc. 6.5 Stockholm: Waldimir's Orch. 6.15 Brussels 1: Light music. 7.0 Stuttgart: Variety concert. 7.5 Warsaw: Light music. 7.40 Beromünster: Radio Orch. 7.50 Radio-Eireann: Orch., contralto. 8.0 Hilversum 2: French, Italian music. 8.0 Kalundborg: Opera music. 8.15 Frankfurt, etc.: Opera music. 8.15 Leipzig: Band concert. 8.15 Munich: Benatzky operetta. 8.30 Strasbourg: Bizet programme. 9.0 Budapest: Cigány Band. 9.30 Lille: Band concert. 10.15 Bucharest: Restaurant Orch. 10.30 Most German Stations: Folk and light music.	1.10 Radio-Paris: Popular orch. 6.30 Strasbourg: Light music. 7.0 Munich: Military Band. 7.0 Warsaw: Popular orch. 7.15 Prague: Light music. 7.45 Stockholm: Band concert. 8.0 Brussels 1: Johann Strauss and Oscar Straus programme. 8.15 Breslau: Orch., choir, etc. 8.15 Frankfurt: Romanian, Yugoslav music. 8.30 Naples Group: Studio operetta. 9.0 Vienna: Light music. 9.15 Brussels 2: Flemish composers. 9.40 Hilversum 2: Operetta music. 10.0 Beromünster: Radio Orch. 10.10 Brussels 1: Jazz music. 10.15 Oslo: Stavanger Radio Orch. 10.30 Kalundborg: Serenade. 10.30 Most German Stations: Light music.	2.30 Kalundborg: Radio Orchestra. 6.0 Brussels 2: Popular prog. 6.30 Prague: Band concert. 7.5 Cologne: Light music. 7.30 Bratislava: Song, Cigány Band. 8.0 Kalundborg: Radio Orchestra. 8.15 Leipzig: Popular prog. 8.15 Strasbourg: Light music. 8.15 Stuttgart, etc.: Popular prog. 8.15 Vienna: Alpine music. 8.20 Radio-Eireann: Orch., bass. 8.25 Hilversum 1: Variety concert. 8.30 Paris (PTT): Jo Bouillon's Band. 8.35 Oslo: Johann Strauss prog. 9.0 Bratislava: Light music. 9.40 Naples Group: "Melody and Rhythm." 9.45 National: Orch., bass. 10.0 Budapest: Dances, etc. 10.15 Bucharest: Restaurant Orch. 11.0 Budapest: Cigány Band.	
Variety Cabaret	4.30 Radio-Paris: Bilboquet. 8.15 Leipzig: Sketches. 8.30 Eiffel Tower: Variety concert. 9.5 Poste Parisien: Amateur Hour.	6.40 Hilversum 2: Cabaret. 7.0 National: "Monday Night at Seven." 8.0 Brussels 2: Cabaret. 8.15 Breslau: "Blue Monday."	7.45 Radio-Eireann: Concert party. 8.0 Brussels 2: Cabaret. 8.10 Hilversum 2: "Tuesday Night Special."	8.0 Regional: "Roundabout." 8.15 Breslau: Variety concert. 11.0 Poste Parisien: Cabaret.	7.30 Stockholm: Cabaret. 7.45 Paris (PTT): Radio Fantasy. 8.0 National: "Lucky Dip." 11.0 Poste Parisien: Cabaret.	8.15 National: "Time to Laugh." 8.30 Eiffel Tower: Radio Fantasy. 9.10 Regional: Variety.	8.0 Hilversum 2: Revue. 8.0 National: Music-Hall. 8.45 Stockholm: Cabaret. 11.0 Poste Parisien: Cabaret from Le Moulin Rouge.	
Dance Music	6.15 Bucharest; 10.10, Brussels 2; 10.15, Naples Group; 10.30, Breslau; 11.0, Paris (PTT), Radio-Paris; 11.15, Turin Group, Warsaw.	5.0 Brussels 1; 8.15, Berlin; 9.5, Poste Parisien; 10.10, Naples Group, Brussels 1; 10.35, Cologne; 10.45, National; 11.0, Oslo; 11.5, Regional; 11.15, Rome, Turin Groups.	10.15 Naples Group; 10.45, Paris (PTT); 11.5, Regional; 11.15, Rome Group; 11.20, Kalundborg; 12.30, Radio-Normandie.	5.20 National; 8.0, Hilversum 2; 10.10, Brussels 1; 10.15, Oslo, Stockholm; 11.5, Regional; 11.15, Rome, Turin Groups; 11.20, National, Budapest.	10.10 Brussels 2; 10.20, National; 10.30, Naples Group; 11.5, Regional; 11.10, Kalundborg; 11.15, Turin Group; 12.30, Radio-Normandie.	10.30 Naples Group; 10.45, Paris (PTT), National; 11.5, Regional; 11.10, Kalundborg; 11.15, Rome, Turin Groups; 12.30, Radio-Normandie.	9.0 Regional; 9.20, Kalundborg; 10.15, Stockholm, Warsaw; 10.20, Munich, etc.; 11.0, Paris (PTT), Radio-Paris; 11.5, National; 11.10, Prague; 11.15, Rome Group.	

SUNDAY (May 28)

- 1.10—Heroes' Day Programme.
2.0—Records.
3.0—For Farmers.
3.45—Mursi Cigány Band.
4.30—Educational Talk.
5.0—News (Slovak, Ruthenian).
5.10—Old Hungarian Soldier Songs—Kertay and Szöts (Singers).
Lantos and Lugossy (Tárogató) and Sándor Szitá (Pfte.).
5.40—Talk: "St. Augustine."
6.5—Band. Conductor: Bertha.
7.15—News.
7.25—Dance Records.
7.50—Sports Report.
8.0—Famous Hungarian Heroes and General in Hungarian Music—Musical Sequence (arr. Zoltán Kilián). University Choir and the Honvéd Band. Conductor: Sándor Figeidy. Imre Háromy and Árpád Lehotay (Songs).
9.40—News.
10.0—French Music. Budapest Concert Orchestra. Conductor: Polgár. Spanish Rhapsody (Ravel). Le festin de l'araignée (Roussel). Prélude à l'après-midi d'un faune (Debussy). L'apprenti sorcier (Dukas).
10.40—News (German, Italian).
10.50—News (English and French).
11.20—Toki-Horvath Cigány Band.
12.5 a.m. (Monday)—News.

COLOGNE

- 658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m.
11.15 a.m.—Whitsuntide Songs by the Hitler Youth Radio Ensemble from Altenberg.
12.0 noon—Orchestra. Conductor: Kühn. Kreuter (Violin). Overture. Aladdin (Reinecke). Violin: The Zephyr (Hubay). Pictures from the South (Nicolé). Dance Suite (Kochmann). Perpetuum mobile (Schönher).
1.0 p.m.—News; Greetings.
1.10—Orchestra. Conductor: Kühn. Comedy Overture (Haletzki). Ländler (Ritter). Delirienwalzer (Jos. Strauss). Hungarian Dances (Brahms). March Potpourri (Recktenwald).
2.0—Cologne Melodies.
3.30—For Children.
4.0—See Hamburg.
6.0—Comrade, where are you?
6.30—Humorous Guessing Competition.
7.0—Records: von Géczy Band. Band, Erna Sack and Marcel Wittisch (Songs).
8.0—News.
8.15—News in English.
8.30—Siegfried Wagner Anniversary—Cologne Male Voice Choir, Station Choir and Orchestra. Conductor: Rudolf Schulz-Dornburg. Marie Theres Henderichs (Soprano) and Philipp Rasp (Tenor). Prelude to "Das Flitchlein, das jeder mitbekam." Male Voice Choir and Orchestra: Der Fahnenwurm. Excerpts from the Symphonic Poem, "Glück." Aria, "Banaditrich." Scherzo. Und wenn die Welt voll Teufel wär! Aria, "Der Friedensengel." Prelude to "Die heilige Linde."
10.0—News.
10.15—News in English.
10.35—Light and Dance Music by the Hargested Orchestra.
12.0 m.t.—2.0 a.m. (Monday)—See Hamburg.

DEUTSCHLANDSENDER

- 191 kc/s (1,571 m.); 60 kW.
6.0 a.m.—See Hamburg.
6.0—Weather; Records.
9.0—Carl Woitschach Band.
10.0—Address.
10.40—Brahms Music (Recorded). Berlin Municipal Orchestra, Erk Male Voice Choir, Rudolf Lamy Choral Society, German Oratorio Choir and the Berlin "Propsteichor." Conductor: Hans Görner. Lore Fischer (Contralto). Unsere Väter hoffen auf dich. Wenn ein starker Gewappneter. Wo ist ein so herrlich Volk. Ave Maria. Contralto, Male Voice Choir and Orchestra: Rhapsodie.
11.15—Weather.
11.30—Mile Sagave (Cinema Organ) from the Stella-Palast, Berlin.
12.0 noon—See Stuttgart; at 12.55 p.m.—Time; Greetings.
1.10—Music from Leipzig.
2.0—May Chimes—Play (Irtraut Hugin).
2.30—Records.
3.30—Farmhouses and Fields—Stories.
4.0—Dobindt Orchestra; at 5.0—5.10—Reading.
6.0—Wagner Music (Recorded). Munich Station Choir and Orchestra. Conductor: Winter. Margarete Bümer (Soprano), Albert Seibert and Eckart Fricke (Tenors). Bachanal and Aria

- from "Tannhäuser." Excerpts, "The Mastersingers." Duet from "Siegfried."
7.5—Jo Helligrath (Soprano), Angelica Costalas (Pfte.) and Danzi (Guitar).
7.55—Sports Notes.
7.50—Motto: News; Weather.
8.0—"Falstaff"—Opera (Verdi). Station Chamber Choir and Orchestra. Conductor: Aulich. Cast: Günther Baum, Hans Wocke, Joop de Vries, Erich Zimmermann, Günter Stenzel, Franz Wolf, Gertrud Callam, Carla Spletter, Hedwig Fichtmüller and Elisabeth Waldenau.
10.0—News; Sports Notes.
10.20—"Sonata" (Kuhn) by Emil Seiler (Viola) and Ida Kuhn (Pfte.).
10.45—Weather.
11.0-12.0 m.t.—Dance Music from Stuttgart.

FRANKFURT

- 1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg and Trier, 1,195 kc/s (251 m.).
Transmits at intervals from 6.0 a.m.
2.30 p.m.—Records: Operetta and Light Music.



Paul Lincke, the popular light opera composer. A programme of his music forms part of the Berlin station's transmission at 8.15 p.m.

- 3.15 (from Cassel)—A Whitsun Outing with the KdF.
4.0—Wiesbaden Municipal Orchestra. Conductor: Schalek. Overture (Sullivan). Humoresque (Reinl). The Nutcracker Suite (Tchaikovsky). Selection, "Hansel and Gretel" (Humperdinck).
5.0—Report: The Reich Model Glider Competition.
5.15—Wiesbaden Municipal Orchestra. Overture, "The Barber of Bagdad" (Cornelius). Ballet Music from "Die Camisarden" (Langert). Excerpts, "Der Freischütz" (Weber). Waltz, Freudengrüsse (Jos. Strauss). Chromatic Gallop (Liszt).
6.0—"Fishing" with Readings from the Works of Anni Harbeck, Erwin Albrecht and Franz Felix.
7.0—Records: Dance and Light Music.
7.45—Sunday Sports.
8.0—Time; News; Weather.
8.15—Light Music.
8.30—See Hamburg.
10.0—Time; News; Sports.
10.30-12.0 m.t.—Light and Dance Music. Station Orchestra. Conductor: Hauck. Emil Franz (Xylophone), Willy Liebe (Cornet) and Pörschmann (Accordion). Bella cubana (Rixner). Spanish Waltz (Metra). Zingaresca (Bormioli). La Mandolinata (Bellstedt). Gladiolen-Walzer (Löhr). Hopassa (Rixner). Ay, Ay, Ay (Pörschmann). Einmal, zweimal, dreimal, viermal (Kaschubec). Unter blühenden Bäumen (Kalthoff). Air (Liebe). Tarantella (Bormioli). Foxtrot (Rixner). Zigeunerweisen (Sarasate). Moderne Polka (Mück). Foxtrot, Evelyn (Meisel). Polka (Hartmann). Tango, Schöne Isabella (Cantico). Naples (Somerfeld). Spanish Dance (Falla). Wirbelwind (Pörschmann). Foxtrot, Grosse Eile (Mück).

HAMBURG

- 904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg and Stettin, 1,330 kc/s (225.6 m.).
6.0 a.m.—Harbour Concert.
8.0—News; Talk; Gym; Records.

- 9.0—For Hitler Youth.
9.30—Station Orchestra (Recordings).
11.0—Fighting Inundations—Manning the Dykes at Husum.
11.25—Records: Violin Sonata in A minor (Schumann).
11.45—Meditation.
12.0 noon—See Berlin; at 12.55 p.m.—Time; Weather.
2.0—"Pechvogel und Glückskind"—Fairy Play (Scheffler).
3.0—Report: With the KdF on Board the Wilhelm Gustloff to Norway.
3.30—Records: Folk Music.
4.0—In the Sunshine (arr. Weissbach). Station Band. Conductor: Jan Hoffmann. Elly Burgmer, Trude Meinz, Günther Günthermann, Franz Felix and Adolf Winds.
6.0—Talk: The Newly Discovered Hassel Comet.
6.10—Dobindt Orchestra (Recorded).
7.0—Sigmund Roth (Bass) and Richard Beckmann (Pfte.). Songs (Schubert): (a) Der Sieg, (b) Stimme der Liebe. Improptu in A flat (Schubert). Songs (Schumann): (a) Freisinn, (b) Mein altes Ross, (c) Im Sonnenschein. Ballad in G minor (Brahms). Der Junge (Loewe). Intermezzo in C (Brahms).
7.35—Sports Notes; Weather.
8.0—News.
8.15—News in English.
8.30—Dance Music for Old and Young—Station Band. Conductor: Jan Hoffmann. Military Band. Conductor: Knoch.
10.0—News.
10.20—News in English.
10.35—Music from Frankfurt.
12.0 m.t.—3.0 a.m. (Monday)—Serenade. Part I. Operetta Music. Station Choir and Orchestra. Conductor: Müller-Lampertz. Eva Schlee (Soprano). Glawitsch (Tenor). Part II. Folk Music. Mandoline and Guitar Band. Kuchenbuch (Zither). Part III. Station Band. Conductor: Jan Hoffmann.

HILVERSUM (No. 1)

- 160 kc/s (1,875 m.); 10 kW until 7.40 p.m.; 120 kW from 7.40 p.m. and Jaarsveld, 722 kc/s (415.5 m.); 17 kW.
8.10 a.m.—KRO Religious Programme.
9.10-11.55—NCRV Programme.
9.10—Records: Sacred Music.
9.45—Reformed Church Service from Rotterdam. After the Service, Records: Sacred Music.
11.55 a.m.—4.40 p.m.—KRO Programme.
11.55—Address by the Rev. Fr. Vervulst, O.P.: "Pentecost."
12.15 p.m.—Records.
12.40—Review of Religious Books.
1.0—KRO Orchestra. Conductor: Reinards. Overture, "Hans Heiling" (Marschner). Lyric Pieces (Grieg). Romance (Svendsen). Très jolie (Waldteufel). Excerpts, "Tosca" (Puccini).
1.40—Letter-box; Records.
2.40—Religious Address.
2.55—Sonata in D (Handel)—Louise Wijngaarden (Violin), Boshart (Pfte.).
3.10—Bagatelles (Beethoven) by Cilly Geysel (Pfte.).
3.25—Louise Wijngaarden (Violin), Boshart (Pfte.). Adagio in E (Mozart). Minuet (Kreisler). Quasi ballata and Appassionata (Suk).
3.40—Cilly Geysel (Pfte.). Dutch Pictures (Voormolen). Improptu in A flat (Chopin); Records.
4.10—For Invalids; Records.
4.45-7.25—NCRV Programme.
4.45—Records: Sacred Music.
5.30—Service from the "Spang" Chapel, Delfshaven. After the Service, Records: Sacred Music.
7.25 till Close—KRO Programme.
7.25—Records.
7.40—News; KRO Notes.
7.55—KRO Orchestra. Conductor: Reinards. Annie Hermes (Contralto). Overture, "Ascanio" (Mozart). Ah, Rendimini (Rossi). Minuet (Debussy). Nocturne (Franck). Sacred Song (Lyadov). Les Prieres (Caplet).
8.25—Whitsun Recitations.
8.40—Records.
8.50—Bandi Balogh Cigány Band.
9.10—KRO Orchestra. Conductor: Reinards: T. van Dongen (Oboe). To the Story of the Lovely Melusina (Mendelssohn). Oboe Concerto in F (Mozart). Ländliche Szenen (Unger). Rhapsody (Feldhof). Giration (Pierné).
10.10—News.
10.20—Choral Epilogue.
10.40-10.55—News in Esperanto.

HILVERSUM (No. 2)

- 995 kc/s (301.5 m.); 15 kW until 7.40 p.m.; 65 kW from 7.40 p.m.
8.35 a.m.—Jong (Organ).
8.40—Homing-Pigeon Notes.
8.45—For Gardeners.
9.10—Jong (Organ).
9.20—Talk by M. Pleyzier.
9.30—Homing-Pigeon Notes.
9.40-11.40—VPRO Programme.
9.40—Religious Address.
10.10—Service from the "Remonstrants Gereformeerde Kerk," Rotterdam.
11.40 a.m.—4.40 p.m.—AVRO Programme.
11.40—Time; Talk: "Moral Re-orientation."
12.0 noon—AVRO Salon Orchestra. Justus Bonn (Tenor).
12.40 p.m.—Records: Irish Music.
1.10—Talk from Batavia.
1.30—Pierre Palla (Organ).
1.40—Icelandic Book Review.
2.10—Chamber Music by the Staalmesters and Jo Vincent (Soprano).
3.25—Report from Middelburgh.
3.55—Records: Mantovani's Orchestra.
4.20—Sports Review.
4.40-6.10—VARA Programme.
4.40—VARA Orchestra. Conductor: de Groot. The Liberty Bell (Sousa). Le pas des fleurs (Delibes). Two Guitars (arr. Horlick). Serenade (Moszkowski). Liebestraum (Liszt). Overture, "Raymond" (Thomas).
5.10—For Children.
5.40—Sports Talk and Notes; Records.
6.10-7.40—VPRO Programme.
6.10—Records; Address by M. de Koning.
6.40—Service for Children.
7.40 till Close—AVRO Programme.
7.40—Time; News; Sound News.
8.5—"Spring and Love"—Revue (de Haas and Tak).
9.10—Talk.
9.15—Part I, "Front Page Men"—Play (Francis Durbridge).
10.0—AVRO Orchestra. Conductor: Treep. Zoltan Székely (Violin). Overture in Italian Style (Schubert). Violin Concerto in E (Mendelssohn).
10.40—News; Records.
11.10-11.40—AVRO Dance Band.

KALUNDBORG

- 240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).
8.0 a.m.—Whitsun Hymns by a Brass Band.
8.35—Weather.
8.45-9.30—Sacred Music by a Church Choir, Conductor: Husson, Madsen (Organ).
10.0—Copenhagen Cathedral Service.
11.28—Weather; News.
12.0 noon—Chimes; Radio Orchestra. Conductor: Tuxen. Overture, "Der Schauspielersdirektor" (Mozart). Excerpts, "The Gordian Knot untied" (Purcell). Excerpts, "Children's Corner" (Debussy - Caplet). Excerpts, "Swan Lake" (Tchaikovsky). Easter Overture (Rimsky-Korsakov). Ballet, "Le Cid" (Massenet). Serenade (Larsson). Festival Polonaise (Svendsen); at 12.50 p.m.—A Story (Vaerlose).
2.0—B. S. Ingemann Commemoration Festival from Torkildstrød.
3.0—London Music Festival from Queen's Hall, London. Missa solennis (Beethoven). BBC Symphony Orchestra. Conductor: Toscanini. BBC Choral Society, Chorus Master: Leslie Woodgate. Zinka Milanov (Soprano), Kerstin Thorborg (Contralto), Koloman von Pátaky (Tenor), Nicola Moscona (Bass).
4.35—For Children.
5.0—Service from Christiansborg Castle Church.
6.20—Whitsun Address.
6.50—Weather.
7.0—Chimes; News.
7.30—Talk: "Women in Selma Lagerlöf's Books."
8.0—Weyse Concert with an Introductory Talk by Torben Krogh. Radio Orchestra. Conductor: Grøndahl. Käthe Bruun Bielenberg, Margherita Flor, Nørby and Thygesen (Songs).
9.10—"B. S. Ingemann"—Reading and Songs.
10.10—Weather.
10.15—Mendelssohn Music. Radio Orchestra. Conductor: Grøndahl. Leo Hansen (Violin). Violin Concerto in E minor. Overture, "A Midsummer Night's Dream."
11.0-11.30—Quartet in F minor

(Nielsen) by Else Marie Bruun and Minna Nyegaard (Violins), Ellen Marquard (Viola) and Medici (Cello).

KÖNIGSBERG (Heilsberg)

- 1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—See Leipzig; at 1.0 p.m.—Time; Weather.
2.0—Chess.
2.30—Variety Programme.
3.30—Talk: Photography.
3.45—Topical Talk.
4.0—See Hamburg.
6.0—Musical Discussion—Peter Arco and Börschel.
7.0—See Vienna.
7.50—Sports Notes.
8.0—News.
8.15—"Max and Moritz"—Musical Programme (Schultze). Station Orchestra. Conductor: Wolfgang Brückner; Westmeyer (Baritone).
9.15—Johann Strauss Music. Station Orchestra. Conductor: Wolfgang Brückner. Waltz, Künstlerleben. Perpetuum mobile. Pizzicato Polka. Kaiserwalzer. Overture, "Die Fledermaus." Radetzky March.

10.0—News; Sports.

10.40-12.0 m.t.—Music from Frankfurt.

LEIPZIG

- 785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 6.0 a.m.
11.0 a.m.—Songs for Whitsuntide. Part I. From Dresden. Dresden Male Voice Choir and Orpheus Choir. Conductor: Erich Schneider. Part II. From Leipzig. Station Choir. Conductor: Sammler.
12.0 noon—Station Choir and Leipzig Symphony Orchestra. Conductor: Kretschmar. Clara Ebers (Coloratura-Soprano). Fest-overture (Reinecke). Divertimento (Blumer). Sicilian Rhapsody (Ailboud). Song: Tarantella (Czernik). Dance Scenes (Grove-mann). Song: Waltz (Walter). Fêtes (Massenet). Chromatic Gallop (Liszt). Moorish Rhapsody (Karrasch). Scènes bohémiennes (Bizet). Overture, Der zerbrochene Krug (Blume). Song. Variation on Jetzt gang i ans Brünnele (Müller). Suite, Ferientage (Fischer). Viennese Waltz (Friebe). March, Die Welt ist so schön (Jünger).
2.0 p.m.—Time; Weather.
2.5—Records: Opera and Light Classical Music.
3.25—Programme by the Hohnstein Puppet Players.
4.0—See Hamburg.
6.0—Records: Dance and Light Music.
6.30—Sports Review.
7.0—See Vienna.
7.50—Sports Notes.
8.0—News.
8.15—Maytime—Variety Programme. Edith Hasselmann (Soprano), Walter Götz (Guitar), Records and Six Scenes: (a) "Die Maibowle" (Kuhnert), (b) "Der vielbeschrieene Kuckuck" (Günter Eich), (c) "Bergfrühling" (Lutz), (d) "Im Maiglöckchenkranz" (Raschke), (e) Bastian und Bastienne (Prügel), (f) "Die Waldmeisterkur" (Kuhnert).
10.0—News; Sports.
10.30-12.0 m.t.—See Frankfurt.

LILLE (Radio PTT Nord)

- 1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
7.0 p.m.—Records; Sports.
7.30—Radio Journal de France.
8.15—Records.
8.30—Orchestra. Conductor: Soret. Mlle Debruyne and César Démon (Songs). Marche des Marmousets (Ganne). Overture, "Zanetta" (Auber). Songs (Brahms, Well, Duparc, Fauré). Sérénade italienne (Chausson). Czardas (Caludi). Chanson du Gave (Fauchey). Arias, (a) "Tosca" (Puccini), (b) "I Pagliacci" (Leoncavallo), (c) "Werther" (Massenet). Song: Désolation (Massenet). Excerpts, "No, No, Nanette" (Youmans).
9.30—"The March of Time"—Radio Fantasy.
10.30—News; Weather.

LISBON

- 629 kc/s (476.9 m.); 20 kW. Transmits at intervals from 1.0 p.m.
4.0 p.m.—Music for Everybody.
5.10—Portuguese Music.

SUNDAY (May 28)

5.30—Dance Music.
6.15—Football Report.
8.0—Concert.
8.30—News; Foreign Affairs.
9.0—Station Sextet; at 9.30—
Topical Talk.
10.0—Records.
10.30—Tourist Talk; Records.
11.0—Fados.
11.30—News; Sports; Records.
12.30-1.0 a.m. (Monday)—Weather.
Dance Music.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
11.30 a.m.—Records: "David
and Goliath"—Biblical Sonata
(Kuhnau).
11.40—Bible Reading.
12.0 noon—Lugano Accordion
Band.
12.29 p.m.—Time; News.
12.40—Orchestra.
1.30-2.0—Poems; Song Records.
5.30—Dance Music from the
Kursaal, Lugano.
6.0—Sports Results; Report: The
Swiss Exhibition.
6.15—Records.
7.15—Sunday Sports.
7.40—Mischa Ignatieff (Balalaika).
Polonaise (Oginski). Nocturne
(Nemerovski). Lullaby (Lyadov).
7.50—News.
8.0—Balalaika (contd.). Waltz-
Caprice (Dobrochotoff). Mazurka
(Andreiev). Hindu Song (Rimsky-
Korsakov). Moskva (Decker-
Schenk). Russian Dances (Lenjé-
Krasjéff).
8.20—Monteverdi Music. Radio
Choir and Orchestra, etc. Con-
ductor: Löhner. Cantai un
tempo. Quel augellin che canta.
Vaghi rai. Jo mi son giovinetta.
Pur ti miro, pur ti godo, from
"L'incoronazione di Poppea".
Crudel! perché mi fuggi?
Lamento from "Orfeo" Lascia-
temi morire. Sonata.
9.0-11.0—Symphony Concert from
the Kursaal, Lugano. La Scala,
Milan Orchestra. Conductor:
Mengelberg. In the interval,
Talk: Hollywood Film Stars.

MOSCOW

172 kc/s (1,744 m.); 500 kW.
Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW.
See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s
(236.8 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—Military Band from the
Feldherrnhalle.
12.55 p.m.—Time; Weather.
1.0—Records; German and Italian
Opera Music.
3.0—"König Kraft"—Fair Play
(Hela Schneider-Ewald), with
Music by Hans Sachse.
3.45—Talk: Adalbert Stifter.
4.0—See Hamburg.
6.0—The Second Alpine Folk Song
Festival from Hohenaschau.
Choirs and Bands from the
Danube Districts, Salzburg, the
Tyrol, Upper Bavaria, Carinthia
and Styria. Conductor: Josef
Schweiger. Wilfrid Feldhütter
(Commentator).
7.40—Sports Notes.
8.0—Time; News; Weather.
8.15—Willy Piel (Pfte.).
8.30—"Oberon"—Opera (Weber).
Station Choir and Orchestra.
Conductor: Winter. Cast:
Walther Carnuth, Hedwig Ficht-
müller, Ila Kosak, Renate von
Aschoff, Elisabeth Waldenau,
Julius Patzak, Josef Knapp, Hilde
Konetzni, Eberhard Kreysern,
Rolf Pinnerger and Fritz Reiff;
at 10.0-10.30—Time; News;
Sports.
11.30—Cabaret on Records.
12.0 m't.-3.0 a.m. (Monday)—
See Hamburg.

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2
m.); 10 kW. Florence (No. 1),
610 kc/s (491.8 m.); Rome
(No. 3), Bari (No. 2), Milan
(No. 2), Turin (No. 2), Genoa
(No. 2), and Ancona, 1,357 kc/s
(221.1 m.).
8.0 a.m.-2.0 p.m.—See Rome
Group.
5.0—Opera Records. In the inter-
val Reading.
7.0—Folk Instrument Quintet.
7.25—Sports Report.
8.0—Time; News.
8.30—"Il pastore musicista"—
Musical Comedy (Nino Casiroli).

9.40—Band. Conductor: Arlandi.
Twenty Years (Olivieri). Dance
Suite (Manzetti). Old Times.
(Roncati). L'amore feribio (Mau-
ceri). Non credo (Marchesi).
Carnival (Mancinelli).
10.15—Dance Music.
11.0—News.
11.15-12.0 m't.—Dance Music.

NICE-COTE D'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
1.55-7.0 p.m.—See Paris (PTT).
7.0—Radio Journal de France.
7.45—Technical Talk; Sports.
8.15—News in Italian.
8.30—See Paris (PTT).
10.30-11.0—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Relayed by Bergen (Askoi), 260
kc/s (1,153.8 m.); Christiansand
and Trondelag, 832 kc/s (360.6
m.); Fredrikstad, 1,276 kc/s
(235.1 m.); Porsgrund and
Stavanger, 850 kc/s (352.9 m.);
and Tromsø, 282 kc/s (1,064 m.).
8.30 a.m.—Gym; Weather;
Records.
10.25—Service.
12.40 p.m.—News.
1.20-2.0—Orchestra. Conductor:
Heide.
3.30—Variety Concert.
4.30—Norwegian Folk Music by
Sigbjørn Bernhoft Osa (Hard-
anger Fiddle) and Nakling
(Songs).
5.0—Weather; Talk: Careers.
5.25—Orchestra. Conductor:
Grüner-Hegge. Serenade (Wirén).
March and Waltz (Andersen).
Song (Kjellsby). Norwegian
Rhapsody (Svendsen).
6.15—Choir.
6.30—Religious Address.
6.55—News.
7.15—Saxophone Quartet. Prelude
and Fugue in F minor (Bach-
Johansen). Intermezzo, "Caval-
leria rusticana" (Mascagni-
Hansen). Sirocco (Franke).
Salut d'amour (Elgar-Hansen).
Crystal Suite (Johnson-Bonnel).
7.35—Report.
8.5—London Music Festival—Missa
solennis (Beethoven) (Recordings
of the 3.0 p.m. Concert at
Queen's Hall).
9.40—News; Sports Notes.
10.15—Italian Music—Stavanger
Radio Orchestra.
10.50-11.10—Sports Notes; News.

Records.

10.25—Service.

12.40 p.m.—News.

1.20-2.0—Orchestra. Conductor:

Heide.

3.30—Variety Concert.

4.30—Norwegian Folk Music by

Sigbjørn Bernhoft Osa (Hard-

anger Fiddle) and Nakling

(Songs).

5.0—Weather; Talk: Careers.

5.25—Orchestra. Conductor:

Grüner-Hegge. Serenade (Wirén).

March and Waltz (Andersen).

Song (Kjellsby). Norwegian

Rhapsody (Svendsen).

6.15—Choir.

6.30—Religious Address.

6.55—News.

7.15—Saxophone Quartet. Prelude

and Fugue in F minor (Bach-

Johansen). Intermezzo, "Caval-

leria rusticana" (Mascagni-

Hansen). Sirocco (Franke).

Salut d'amour (Elgar-Hansen).

Crystal Suite (Johnson-Bonnel).

7.35—Report.

8.5—London Music Festival—Missa

solennis (Beethoven) (Recordings

of the 3.0 p.m. Concert at

Queen's Hall).

9.40—News; Sports Notes.

10.15—Italian Music—Stavanger

Radio Orchestra.

10.50-11.10—Sports Notes; News.

Records.

10.25—Service.

12.40 p.m.—News.

1.20-2.0—Orchestra. Conductor:

Heide.

3.30—Variety Concert.

4.30—Norwegian Folk Music by

Sigbjørn Bernhoft Osa (Hard-

anger Fiddle) and Nakling

(Songs).

5.0—Weather; Talk: Careers.

5.25—Orchestra. Conductor:

Grüner-Hegge. Serenade (Wirén).

March and Waltz (Andersen).

Song (Kjellsby). Norwegian

Rhapsody (Svendsen).

6.15—Choir.

6.30—Religious Address.

6.55—News.

7.15—Saxophone Quartet. Prelude

and Fugue in F minor (Bach-

Johansen). Intermezzo, "Caval-

leria rusticana" (Mascagni-

Hansen). Sirocco (Franke).

Salut d'amour (Elgar-Hansen).

Crystal Suite (Johnson-Bonnel).

7.35—Report.

8.5—London Music Festival—Missa

solennis (Beethoven) (Recordings

of the 3.0 p.m. Concert at

Queen's Hall).

7.0—News; Racing; Sports.
7.25—London Letter.
7.32—Amusements; Novelties.
8.0—Topical.
8.5—Paris Gossip, with Pauline
Carton and Jean Nohain.
8.10—Talk: The Cinema.
8.15—"The Petits chanteurs à la
croix de bois," presented by
Abbé Mailliet.
9.5—Amateurs' Programme.
10.0—News.
10.15—Records; "La nuit ensorce-
lée" (Chopin).
10.30—Records: Light Music.
11.30—News (French, Italian).

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
6.30-6.45 a.m.—News; Pro-
grammes.
7.20—Classical Records.
8.0—Sports Notes; Programmes.
8.20—Record; For Tourists.
8.30—News; Radio Report.
9.0—News.
9.10—Orchestra. Conductor: Lo-
catelli.
9.25—See Strasbourg.
10.45—Songs (Marguerite Canal)
by Suzanne Peyrou and Jean
Guilhem with the Composer at
the Ptte.
11.15—Records; at 11.20—Talk.



Mme. Germaine Roger, who will
give a song recital in the Paris
(PTT) studio at 12.30 p.m.

12.20 p.m.—Sound News.
12.30—Germaine Roger (Songs).
12.45—News; Records.
1.40—For Farmers.

1.55—Talk on the following Pro-
gramme.

2.0—"Werther" (Massenet) from
the Opéra-Comique, followed at
4.50 by Weber's "Invitation to
the Waltz."

5.0—Records.

5.45—Clara Haskil (Pfte.). Adagio
(Bach). Fugue in E minor
(Mendelssohn). Arabesque (Schu-
mann).

6.0—Readings (Tristan Bernard).

6.15—News; Records.

7.0—News; Records.

7.45—Les Frères Jacques present
M. Daniférré.

8.15—Talk by André Morizet: New
York World Fair.

8.30 (also Marseilles (PTT), Alpes-
Grenoble (PTT) and Lyons
(PTT))—"Le Président Haude-
cœur"—Three-Act Play (Roger
Ferdinand) from the Odéon.

10.30—News; Weather.

10.45—Song Records. Coronation
Scene from "Boris Godunov"
(Mussorgsky). Aria, "Prince
Igor" (Borodin) by Chaliapine.

11.0—See Paris (Radio-Paris).

11.40—Political Review.

12.0 noon—Chimes; Topical.

12.25 p.m.—Industrial Review.

12.30—News; Press Review.

12.45—Variety Concert from
Brno.

2.0—For Farmers.

2.30—Report from a Leather
Factory; Records.

3.0—Programme for Children, from
Moravská-Ostrava.

3.20—Orchestra from Moravská-
Ostrava.

4.20—Comedy (Polách) from Brno.

5.0—FOC Orchestra. Conductor:
Smetáček. Tauberová (Soprano),
Muncinger (Bass) and Sroubek
(Violin). Festival March
(Dvořák). Aria, "Eugene One-
gin" (Tchaikovsky). Spanish
Dance (Sarasate). Aria, "The
Bartered Bride" (Smetana).
Slay Dance (Dvořák). Waltz,
"The Devil's Grandmother"
(Nedbal).

5.30—"The Streets of Prague"—
A Microphone Tour.

12.20 p.m.—Mozart Records.
Adagio from the Clarinet Con-
certo in A, by Haydn Draper
and Orchestra. Conductor: Ray-
bould. German Dances Nos.
3 and 6. Conductor: Kleiber.
12.30—Jean Sorbier (Tenor).
12.45—Radio Journal; Programmes;
Records.

1.15—Visciano Orchestra. Ballet
Music, "Romeo and Juliet"
(Gounod). Chanson pour bercer
(Rousseau). La lune (Bertho-
miéu). Cantilène au crépuscule
(Smet). Liebestraum (Liszt).
Hymn to the Sun (Rimsky-Kor-
sakov). Chant d'adoration (Harris-
son). L'heure du départ
(Sologne). Iberia (Luchesi).
Petite Suite (Chaminade). Nénu-
phars bleus (Visciano).
2.15—Readings (Donnay).
2.30—For Young People.
3.0—Musical Monologues.
3.15—Jaccovacci Hawaiian Band.
3.30—Tiarko Richepin in his reper-
toire.

3.45—Art Treasures—Sketches: (a)
"Le Bassin des Nymphéas," by
Claude Monet (in the Musée de
l'Orangerie), (b) "Le bureau de
La Fayette" (in the Musée des
Invalides), with Georges Colin,
Henry Vermeil, Beauchamp,
Lucien Fresnac, Paul Echilley,
Hélène Tossy and Germaine
Moncray.

4.15—Literary Programme for
Young People.

4.30—Radio-Paris Circus: Bilboquet
in his Parade; "Bon appetit,
Messieurs"—Sketch (Bon-
temp) by Zecca, Rolande Gardet,
Gaudy and his Musicians and
the Pekaris.

5.0—Lina Tyber (Songs).

5.15—Jean, Jac and Jo.

5.45—Records: Debussy Music.

6.0—Industrial and Social Notes.

6.15—Le Dieu Vivant (2): "La
Pentecôte" (Cita and Suzanne
Malar) with Georges Colin, Jean
Toulout, Robert Dalban, Lucien
Fresnac, Paul Echilley, Hélène
Tossy, Raymond Fernel, Ger-
maine Moncray, etc.

7.0—Programmes; Racing Results.

7.5—Eddie Foy Band.

8.0—Radio Journal de France.

8.30—Symphony Concert. Conduc-
tor: Albert Van Raalte. Sym-
phony in B flat (Bach). Con-
certo (Mendelssohn). La Pro-
cession nocturne (Rabaud). Sym-
phony No. 2 (Brahms); at 9.30
—Sound News.

10.30—Records. Arias, "La Dame
Blanche" (Boieldieu), "Si
j'étais Roi" (Adam) and "The
Drum-Major's Daughter" (Offen-
bach).

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

10.45—Time; News.

11.0—Bouillon Dance Band.

12.30 a.m. (Monday)—Programmes.

Records.

5.50—"Something for Everybody"

—Review on Records.

11.45—Concert.
12.30 p.m.—French News Bulletin.
12.50—Request Music.
1.30—Sunday Afternoon at Diana
 Clare's.
2.0—Time; Variety.
2.30—Teaser-Time.
2.45—The Open Road.
3.0—Time; Serenade to Beauty—
 Stella Wayne and Van Phillips
 Dance Band.
3.30—Reginald Foort (Organ).
4.0—Time; Picture House. Master
 of Ceremonies: Michael Red-
 grave. Vic Oliver. Dorothy Alt.
 Webster Booth. The Cavendish
 Thers. Mayfair Men and Debroy
 Somers' Band.
4.45—Personalities No. 4: Eric
 Maschwitz.
5.0—Time; Sing as we go.
5.15—Carroll Lewis's Discoveries.
5.30—The Three Jacks.
5.45—Here we come with Melody
 —Betty Bucknelle, Johnny John-
 ston and Tommy Kinsman's
 Band.
6.0—Let's Remember — Frank
 Titterton, Leslie Jeffries Quintet
 and Anne Ziegler.
6.15—Evening in Paris with Pierre
 Zeppelli's Orchestra. Compère:
 Roy Plomley.
6.30—Radio Revue with Billy Bisset's
 Band. Bébé Daniels, Ben Lyon.
 Tommy Handley, Alice Mann.
 Phyllis Stanley and Sam Browne.
7.0—“Mr. J. G. Reeder” —
 Thriller after Edgar Wallace.
7.15—Charm School, with Kay
 Lawrance and Alan Kane's Or-
 chestra.
7.30—Albert Locatelli's Orchestra.
7.45—Literary Programme.
8.0—News; Sports Review.
8.30—Request Concert.
9.50—Talk by M. De Chappede-
 laine.
10.0—Motor Magazine.
10.15—Waltz Time with Tom
 Sheppard's Orchestra.
10.30—Riddle Rhythm with
 Leonard G. Feather.
10.45—Popular Tunes.
11.0—Special American Programme
 from Station WMCA, New York.
11.15—Variety.
11.45—Sweet Music.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Monday) — Time;
 Dance Music.

RENNES - BRETAGNE

7,040 kc/s (288.5 m.); 120 kW.
 Transmits at intervals from 6.30 a.m.
4.25 p.m.—Nantes Wind Instrument
 Quintet from Nantes.
 Quintet (Onslow). Trio-Sonata
 (F. Schmitt). Suite pittoresque
 (Pierne).
6.30—Talks.
7.0—Sports; Records.
7.30—Radio Journal; Records.
8.30-10.30—See Paris (Eiffel
 Tower).
10.30-11.0—News; Records.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8
 m.); 120 kW. Bari (No. 1),
 1,059 kc/s (283.3 m.); Bologna,
 986 kc/s (304.3 m.); Bolzano,
 536 kc/s (559.7 m.); Naples
 (No. 2), Milan (No. 3), and Turin
 (No. 3), 1,429 kc/s (209.9 m.);
 and Tripoli, 1,104 kc/s (271.7
 m.).
8.0 a.m.—Amharic Lesson.
8.30-8.50—Time; News.
9.15—For the Defence Forces.
10.0—For Farmers.
11.0—Mass from the Basilica of the
 Annunciation, Florence.
12.0 noon-12.15 p.m.—Bible Read-
 ing.
12.30—Records.
1.0—Time; News.
1.15—“Che cos'è”—Revue (De
 Stefani).
1.45—Opera Records.
2.15-3.0—Variety.
4.30—Football Commentary.
5.15—Report from the San Siro
 Hippodrome: The Italian Grand
 Prix.
5.30—Records: Old and Modern
 Songs; at 5.45—Sports; Weather.
6.35-6.55—Sports Notes.
7.0—News in French.
7.18—News in English.
7.35—Sports.
8.0—Time; News; Music.
9.0—The Opening of the E.I.A.R.
 Opera Season: “Sicilian
 Vespers”—Opera in Five Acts
 (Verdi). Conductor: Previtali.
 Chorus Master: Costantini. Cast:
 Gaetano Viviani, Paolo Silveri,
 Gregorio Pasetti, Tancredi Pasero,
 Giuseppina Sani, Enzo Aita,
 Mario Binci, and Bruno Sbal-
 chiero. In the intervals, Talks,
 News, and Announcements.
12.0 m't.—News in French.
12.12-12.30 a.m. (Monday)—News
 in English.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
 Relayed by Kaiserslautern, 1,429
 kc/s (209.9 m.).
 Transmits at intervals from 6.0 a.m.
12.30 p.m.—Music from Berlin; at
 1.0 p.m.—Time; Weather;
 Greetings; Talk.
2.0—See Stuttgart.
2.30—Records of Songs and Pfte.
 Music. Songs (Schubert) by
 Elisabeth Schumann and Gerhard
 Hüsch: (a) Heidenröslein, (b)
 Der Lindenbaum. Impromptu
 in A flat (Schubert) by Winfried
 Wolf. Songs (Schumann) by
 Karl Erb: (a) Mondnacht, (b)
 Der Nussbaum, (c) Abendlied.
 Trümerei (Schumann) by Elly
 Ney. Feidelsamkeit (Brahms).
 Wiegeln (Brahms). by Ria
 Gienster.
3.0-3.15—Reading (Gothelf).
3.30—Records.
4.0—Light Classical Music. Station
 Orchestra. Conductor: Kasper.
 Mara Jakisch (Soubrette). Erwin
 Hartung (Tenor). Ludwig Buss
 (Violin) and Rudi Braun (Accor-
 dion).
6.0—In the Twilight—Literary and
 Musical Programme. Willi Lor-
 scheider (Tenor). Max Sonntag
 (Pfte.) and Records.
7.0—Legends and Fairy-Tales.
7.30—Sunday Sports and Events.
8.0—Time; News; Weather.
8.15—“Tsar and Carpenter”—
 Opera (Lortzing). Mixed Choir.
 Conductor: Carl. Station Or-
 chestra. Jung. Cast: Hans
 Karolus, Hans Mar, Erwin
 Kraatz, Maria Madlen-Madsen,
 Hermann Blasig, Michael Dietz,
 Friedrich Engels and Maria
 Leininger.
10.15—Time; News; Sports.
10.30—See Frankfurt.
12.0 m't.-3.0 a.m. (Monday)—See
 Hamburg.

SOTTENS

677 kc/s (443.1 m.); 100 kW.
 Relayed by Geneva, 401 kc/s
 (748 m.).
 Transmits at intervals from 10.0 a.m.
10.0 a.m.—Classical Records.
10.30—Chimes.
10.35—Protestant Service from
 Neuchâtel.
11.30—Records.
12.30 p.m.—News; Records.
2.0-2.15—For Farmers.
2.15—Commentary on Le Locle
 Cycle Grand Prix.
6.0—Roman Catholic Address.
6.20—Armand Gros (Organ). Pre-
 lude and Fugue in F minor
 (Handel). Three Chorals (Wal-
 ther). Fugue (Gros). Sois dans
 l'allégresse o mon âme (Gros).
6.40—Protestant Address.
7.0—Bach Music by Armand Gros
 (Organ). Toccata in D. Choral.
 Fantasia in G.
7.20—Announcements; Sunday
 Sports.
7.50—News; Chimes; Topical.
8.5—Vaudois Composers. M.
 Rochat (Songs). Maggy Gayr-
 hos-Defrancesco (Pfte.) and Paul
 Burger (Cello). Part I: Apothe-
 los Songs. Madrigal. Quatrain.
 Dimanche. Pourquoi. La veuve.
 La lune. Chanson. Part II:
 Aloys Fornerod. Sonata for
 Cello and Pfte. Rondo. Part
 III: Paul Piguet Songs. Chanson
 de Cendrillon. Ma mère L'Oye.
 Signe. Passage. Paris. Beauté.
8.55—“The Abbey”—Sequence
 (Jean Sam).
9.15-10.30—Suisse romande Or-
 chestra. Conductor: Ansermet.
 Ma Mère l'Oye (Ravel). Suite
 No. 2 (Vuatuz). Kamarinskaya
 (Glinka). Dances. “Prince
 Igor” (Borodin).

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
 Relayed by Motala, 216 kc/s
 (1,389 m.); Göteborg, 941 kc/s
 (318.8 m.); Hörby, 1,131 kc/s
 (265.3 m.); and Luleå, 392 kc/s
 (765 m.).
10.0 a.m.—Records: Second Sym-
 phony (Sibelius) by the Boston
 Symphony Orchestra. Conductor:
 Koussevitsky.
11.0—Service from Uppsala Cath-
 edral.
12.40 p.m.—News; Reading
 (Odman).
1.30 (from Göteborg)—Royal Horse
 Guards Band from Liseberg
 Gardens.
2.30—For Children.
3.0—London Music Festival—Missa
 solennis (Beethoven) from
 Queen's Hall, London (for details
 see BBC National).
4.35—Värmland Tales; Records.
6.0—Methodist Service.

7.15—News; Weather.
7.30—Poetry Guessing Competition.
8.0—“The Rhine in Music”—
 Poems and Music with the Radio
 Orchestra. Conductor: Grevillius.
 Ingrid Wiksjö (Songs), etc. Siegf-
 ried's Rhine Journey. “The
 Dusk of the Gods” (Wagner).
 Songs (Liszt, Mahler). Poems.
 Scènes alsaciennes (Massenet).
 Two Movements from the Rhenish
 Symphony (Schumann).
9.0—A Play.
10.10—Weather.
10.20-11.0 (from Göteborg)—
 Bröström's Band. Butterfly Waltz
 (Friml). Andalusian Romance
 (Saraste). A Tear (Mussorgsky).
 Crescendo (Lasson). Romance
 (Grünfeld). Mattinata (Leon-
 cavallo). Hymn to the Sun
 (Rimsky-Korsakov). Narcissus
 (Nevin). Songs in Swedish Folk
 Style (Peterson-Berger). Russian
 Ballad (Partos). Goodnight
 (Lilian Ray).

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
 Transmits at intervals from 6.30 a.m.
6.30-6.50 a.m.—News (French,
 German).
7.20—News (French, German).
7.30—Gym; Records.
8.25—For Tourists.
8.30—News.
8.40—Records: Sonata for Flute,
 Viola and Harp (Debussy).
9.0—News.
9.10—See Paris (PTT).
9.25—Pontifical High Mass from
 the Cathedral. S. E. Mgr. Ruch,
 Bishop of Strasbourg presiding.
10.45—Protestant Service (German).
11.30—Pentecost Sermon by Bishop
 Ruch; Liturgical Music by the
 Seminary Choir.
12.0 noon—Records: Glahe Band.
12.30 p.m.—News (German,
 French); Records.
1.40—Industrial and Social Notes.
1.55—Medical Talk in German.
2.10—Records: Opera Overtures.
2.30—Report: The Unveiling of
 the Memorial to the 40th In-
 fantry Division at Mort-Homme,
 on the Meuse (Recorded).
3.15—The Argonne Forest Festival
 —Report and Music by School
 Choirs and “Le Rallye”
 Hunting Horn Corps.
4.0—Marianne Ricklin (Songs).
4.25—Orchestra. Conductor: Bour.
 David (Trombone). Werck and
 Laumet (Saxophones).
5.5—Records.
5.15—See Paris (Radio-Paris).
5.45—Talk in German; Gardens.
6.0—Records: English Music.
 Three Dances. “The Fairy
 Queen” (Purcell) by the Jacques
 String Orchestra. Corpus Christi
 (Warlock) by the BBC Choir.
 Conductor: Leslie Woodgate.
 Four Dances (Percy Grainger) by
 Elsie Avril (Violin). Two Songs
 (Vaughan Williams) by Stuart
 Robertson (Baritone). Sonata
 (Eccles) by Jacques Thibaud
 (Violin). Enigma Variations
 (Elgar) by the BBC Orchestra.
 Conductor: Sir Adrian Boult.
7.0—Radio Journal.
7.15—News in German.
7.30—Sports; Records.
8.0—News (French, German).
8.15—Opera Music. Station Or-
 chestra. Conductor: Bour.
 Anette Brincour (Contralto) and
 Charles Gillig (Bass). Excerpts,
 “Les Indes Galantes” (Rameau)
 and “Orphée” (Gluck).
 Gavotte. “Idoménée” (Mozart).
 Serenade. “Don Giovanni”
 (Mozart). Overture. “Fidelio”
 (Beethoven). Overture. “Tsar
 and Carpenter” (Lortzing).
 Ballad. “The Merry Wives of
 Windsor” (Nicolai). Aria and
 Entr'acte. “Der Freischütz”
 (Weber). Aria. “Samson and
 Delilah” (Saint-Saëns). Ballet.
 “Etienne Marcel” (Saint-Saëns).
9.30—Records. Overture, “The
 Thieving Magpie” (Rossini) by
 the London Philharmonic. Con-
 ductor: Sir Thomas Beecham.
 Excerpts, “Madame Butterfly”
 (Puccini) by the New Light Sym-
 phony Orchestra. Overture,
 “Oberon” (Weber) by the
 London Philharmonic. Con-
 ductor: Szell.
10.0—Fernand Rich (Organ). Con-
 certo in G (Vivaldi-Bach). Varia-
 tions from the Fantasia in F
 minor (Mozart). Adagio from the
 Third Symphony (Vierne).
 Elevation (Dupré). Les cloches
 de Notre Dame des Doms en
 Avignon (Reuchsel).
10.30—News (French, German).
10.45—Music.
11.0-12.0 m't.—See Paris (Radio-
 Paris).

SUNDAY (May 28)

STUTTGART

574 kc/s (522.6 m.); 100 kW.
 Transmits at intervals from 6.0 a.m.
12.0 noon—Military Band from the
 Reich Horticultural Show.
1.0 p.m.—Topical Report.
1.15—Music from Berlin.
2.0—A Punch Play (Dalichow).
2.30—Records.
4.0—Station Choir and Orchestra.
 Conductor: Görlich. Jetty
 Topitz-Feiler and Emma Rein-
 hardt (Sopranos), Karl Jautz and
 Hubert Buchta (Tenors) and
 Richard Bitterauf (Baritone).
6.0 (from Karlsruhe)—“The Idle
 Maid”—Sequence (Weis), with
 Music.
6.45—Records: von Géczy Orches-
 tra.
7.0—Sports Notes and Report: The
 12th Bruchsal International
 Hockey Tournament. In the
 intervals, Records.
8.0—News.
8.15—to be announced.
10.0—News; Sports.
10.30—Dance Music. Station Or-
 chestra. Conductor: Willi Butz.
 Heinz Butz (Pfte.) and Otto
 Fischer (Refrains).
12.0 m't.-2.0 a.m. (Monday)—See
 Hamburg.

TOULOUSE (Radio-

Toulouse)
 913 kc/s (328.6 m.); 60 kW.
 Transmits at intervals from 8.0 a.m.
11.45 a.m.—Roman Catholic Ad-
 dress.
12.0 noon—Operetta Music.
12.30 p.m.—“Pays Basque”—
 Fantasy.
12.45—News; Talk; Music.
1.45—Dances.
2.0—News.
2.15—Protestant Address.
6.0—Dances.
6.5—News; Light Music.
6.55—Talk; Musette Orchestra.
6.55—News; Sports; Songs.
7.15—Light Orchestra.
7.20—Talk; Cinema Organ.
7.45—Light Music.
8.0—News; Sketches.
8.30—The Song Kiosk.
9.15—Talk and Music.
9.30—Military Band; Talk.
10.0—News; Request Music.
10.45—Light Music.
11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2
 m.); 30 kW. Milan (No. 1), 814
 kc/s (368.6 m.); Genoa (No. 1),
 814 and Trieste, 1,140 kc/s (263.2
 m.); Palermo and Catania, 565
 kc/s (531 m.); Florence (No. 2),
 1,258 kc/s (238.5 m.); and Rome
 (No. 2), 1,222 kc/s (245.5 m.).
8.0 a.m.-3.0 p.m.—See Rome
 Group.
4.30—Football Commentary.
5.15—“La bambola, il treno, il
 cavallo”—One-Act Play (Nando
 Vitali).
5.50—Sports Notes; Records.
6.35-6.55—Sports.
7.25—Sports Report.
8.0—Time; News; Records.
8.36 (Milan (No. 1) and Rome
 (No. 2) only)—News in German.
9.0—Amateurs' Hour.
10.15—Talk.
10.25—String Orchestra. Conduc-
 tor: Tito Petralia. On the Banks
 of the Santa Maria (Warren).
 The Little Groom (Barbieri).
 Dancing on the Stairs (Filipini).
 Aria all'antica (Limentani). First
 Love (Hugh). Poemetto lunare
 (Pacini). Pfte. Polichinelle
 (Villa-Lobos). Suite, Aus Hol-
 bergs Zeit (Grieg). Moto per-
 petuo (Fucile).
11.0—News.
11.15-12.0 m't.—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW.
 Relayed by Graz and Linz, 886
 kc/s (338.6 m.); Innsbruck, 519
 kc/s (578 m.); Klagenfurt and
 Vorarlberg, 1,294 kc/s (231.8 m.)
 and Salzburg, 1,348 kc/s (222.6
 m.).
 Transmits at intervals from 5.57 a.m.
2.0 p.m.—Dance Records.
3.10—Folk Songs and Music.
 Station Choir. Conductor:
 Pehm. Viktor Winklbauer (Accor-
 dion) and Otto Schindler
 (Guitar). Unter der lachenden
 Sonne (Eisele). Folk Songs:
 (a) Auf, du junger Wandersmann,
 (b) Heut' noch sind wir hier zu

Haus', (c) Wir Wollen zu Land
 ausfahren. Die Geige auf dem
 Rücken (Summer). Suite, Har-
 monika auf Wanderschaft (Mahr).
 Ich bin ein lustiger Wanders-
 mann (Curschmann). Ihr Wan-
 dervögel in der Luft (Abt). Folk
 Song, Im Frühtau zu Berge. Mit
 frohem Mut (Mahr).
3.40—Talk: Norway.
4.0—See Saarbrücken; at 5.0-5.15
 —See Frankfurt.
6.0—Talk: German Whitsuntide
 Customs.
6.25 (from Graz)—Rudi Stephan
 Music. Lena Bernd (Soprano)
 and the Mozart Quartet and
 Members of the Municipal Or-
 chestra. Part I. Songs. Sonntag.
 Pappel im Strahl. Dir. Ein
 Neues. Im Einschlafen. Abend-
 lied. Heimat. Part II. Music
 for Seven String Instruments.
7.0—A Spring Excursion to the
 Grossglockner.
7.50—Sunday Sports.
8.0—News.
8.15—Variety Concert. Station Or-
 chestra. Conductors: Schönherr
 and Sandauer, with Philis Fehr,
 Toni Gerhold, Susi Witt, Emil
 Petroff, etc.
10.0—News; Press Review; Sports.
10.30-12.0 m't.—See Frankfurt.

WARSAW

224 kc/s (1,339 m.); 120 kW.
 Relayed by Cracow, 1,022 kc/s
 (293.5 m.); Katowice, 758 kc/s
 (395.8 m.); Łódź, 1,339 kc/s (224
 m.); Lwów, 795 kc/s (377.4 m.);
 Poznań, 868 kc/s (345.6 m.);
 Toruń, 986 kc/s (304.3 m.);
 and Wilno, 536 kc/s (559.7 m.).
 Transmits at intervals from 7.15 a.m.
9.15 a.m.—Whit-Sunday Service
 from Biecz.
11.30—Records: Mlynarski Music.
11.57—Time and Fanfare.
12.3 p.m. (from Łódź)—Symphony
 Concert. Conductor: Kiesewetter.
 Rachoi (Violin). Overture,
 “Semiramide” (Rossini). Violin
 Concerto in A (Karłowicz). Sym-
 phony in E flat (Mozart). Ballet,
 “The Merry Wives of Windsor”
 (Moniuszko). Turkish March,
 “The Ruins of Athens” (Beet-
 hoven).
1.0—Reading (Pilsudski).
1.5—Cultural Review.
1.15 (from Poznań)—Orchestra,
 Conductor: Raabe. Wilkowszki
 (Tenor). Szolc (Cello). Mando-
 line Duo and Guitar Duo. Overtu-
 re, “The Italian Girl in
 Algiers” (Rossini). Humoresque
 (Dvořák). Serenade (Braga).
 Morgenblätter (Strauss). Tenor
 Songs: (a) Tarantella (Bonfiglio),
 (b) The Blue Pavilion (Arman-
 dola), (c) Aria, “Werther”
 (Massenet). Roses and Butter-
 flies (Micheli). Italian Suite
 (Bece). “Cello: Romance (Golter-
 man). Hallo! La Gavotte! (Man-
 kowska). Torna a Surriento (de
 Curtis). Tenor Songs (Karłow-
 wicz, Paderewski). Transakcioni-
 walzer (Strauss). Mazurka
 (Alfieri). Neapolitan Serenade
 (Winkler).
2.40—For Children.
3.40—For Country People.
4.30 (from Cracow)—Old and New
 Italian Music by Martusiewicz
 (Pfte.). Adagio (Vivaldi). Fifteenth
 Century Siclienne (arr. Respighi).
 Folk Suite (Bontempelli). Two
 Autumn Preludes (Malipiero).
 Toccata (Ticciati).
5.0—“East Wind, West Wind”—
 Play after Pearl Buck (Gawron-
 ska).
5.30—“In the Forest of Bielany”
 —Gala Variety. Orchestra. Con-
 ductor: Górzyski. Dan Choir,
 Olza and Górka (Songs), Lopus-
 zek (Imitations).
7.20—Educational.
7.30 (from Lwów)—Fortieth Ann-
 iversary of Lwów Polytechnic—
 Part of the Celebration Concert
 by the Students' Choir.
7.50—Records: Sonata in D (Schu-
 bert) by Albert Sammons (Violin)
 and William Murdoch (Pfte.).
8.15—News; Programme Notes.
8.55 (from Lwów)—Report from
 Krzemieniec.
9.10—Dance Music — Orchestra,
 Conductor: Czigedewski, with
 the Burski Sisters and Fogg.
9.40 (from Lwów)—Literature and
 Music.
10.20—Dance Music — Orchestra,
 Conductor: Czigedewski, with
 the Burski Sisters and Fogg.
11.0—News.
11.15—News in English.
11.15-11.55—Dance Records.

MONDAY May 29

National

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m. D=Droitwich.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Down the Dalmatian Coast." 11.0—Records.

11.20—Cinema Organs.

11.50—Light Music from France.

12.15 p.m.—Records.

1.0—County Cricket commentaries.

1.30—Harold Rhodes (Organ).

2.0—BBC N. Ireland Orchestra.

3.0—Arthur Salisburys Orchestra.

3.20—"The Three Nomads."

3.35—"Accent on Rhythm."

3.50—Sonata Recital.

4.15—"Where's Mr. Jones?" short story.

4.30—"Verlaine and The Musicians;" records.

5.0—"Bank Holiday;" records.

5.30—County Cricket commentaries.

6.0—The First News.

6.20—"Business Outlook from America;" H. B. Elliston.

6.25—"Frederic Curzon (BBC Theatre Organ).

7.0—Au Revoir, Monday Night at Seven.

8.0—Roy Henderson (Baritone)."

8.20—"Swing High, Swing Low," an appreciation of the music of Duke Ellington. 9.0—Third News.

9.25—News from Canada.

9.30—"World Affairs."

9.45—BBC Theatre Orchestra.

10.45—Herman Darewski's New Melody Rhythm Band.

11.30—Records.

11.50-12.0—News Summary.

London Regional

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 7.0, 11.30 p.m.

10.15 a.m.—National.

10.45—Sam Bennie (Piano).

11.0—"Eleven's."

11.20—Fedora Bernard (Mezzo-Soprano); Mary and Geraldine Peppin (Pftes.). 12.0—Orchestra.

12.45 p.m.—"G. F. L. Draper."

1.0—Reub Silver (Piano).

1.15—"Cornish Hero."

1.35—New Records.

2.5—Frank Biff's Brass Quintet.

2.30—Dance Records.

3.0—Folkstone Municipal Orchestra; Edward Reach (Tenor).

4.0—Eric Spruce (Cinema Organ).

4.25—"The Cabin in the Hills."

5.0—The Children's Hour.

6.0—"Haman and Mordecai," a masque. Music by Handel.

7.0—News. 7.20—Announcements.

7.30—Bookshelf.

7.50—BBC Military Band.

8.20—"Lundy."

9.0—Scenes from "Under Your Hat," from the Palace Theatre, with Jack Hulbert and Cicely Courtneidge.

9.50—Six-Day Bicycle Race.

10.0—News in French.

10.15—News and News Talks in German. 10.45—Fourth News.

11.5—Herman Darewski's New Melody Rhythm Band.

11.30-12.0—Dance Records.

Midland

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 7.0, 11.30 p.m.

10.15 a.m.—Regional.

5.0 p.m.—The Children's Hour.

6.0—Motor-Cycle Racing from Cadwell Park.

6.15—Notts v. Surrey, from Trent Bridge, Nottingham.

6.30—Ivan Cousins (Pfte.).

7.0—The Second News.

7.20—Midland Announcements.

7.30—Regional.

7.50—Victor Fleming Orchestra.

8.30—The Open-Air Club.

9.0-12.0—Regional.

Stagshaw

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 7.0, 11.30 p.m.

10.15 a.m.—Regional.

5.0 p.m.—The Children's Hour.

6.0—Motor-Cycle Racing from Cadwell Park.

6.15—Notts v. Surrey, from Trent Bridge, Nottingham.

6.30—Ivan Cousins (Pfte.).

7.0—The Second News.

7.20—Midland Announcements.

7.30—Regional.

7.50—Victor Fleming Orchestra.

8.30—The Open-Air Club.

9.0-12.0—Regional.

North

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 7.0, 11.30 p.m.

10.15 a.m.—Regional.

5.0 p.m.—The Children's Hour.

6.0—Motor-Cycle Racing from Cadwell Park.

6.15—Notts v. Surrey, from Trent Bridge, Nottingham.

6.30—Ivan Cousins (Pfte.).

7.0—The Second News.

7.20—Midland Announcements.

7.30—Regional.

7.50—Victor Fleming Orchestra.

8.30—The Open-Air Club.

9.0-12.0—Regional.

West

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m. D=Droitwich.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Down the Dalmatian Coast." 11.0—Records.

11.20—Cinema Organs.

11.50—Light Music from France.

12.15 p.m.—Records.

1.0—County Cricket commentaries.

1.30—Harold Rhodes (Organ).

2.0—BBC N. Ireland Orchestra.

3.0—Arthur Salisburys Orchestra.

3.20—"The Three Nomads."

3.35—"Accent on Rhythm."

3.50—Sonata Recital.

4.15—"Where's Mr. Jones?" short story.

4.30—"Verlaine and The Musicians;" records.

5.0—"Bank Holiday;" records.

5.30—County Cricket commentaries.

6.0—The First News.

6.20—"Business Outlook from America;" H. B. Elliston.

6.25—"Frederic Curzon (BBC Theatre Organ).

7.0—Au Revoir, Monday Night at Seven.

8.0—Roy Henderson (Baritone)."

8.20—"Swing High, Swing Low," an appreciation of the music of Duke Ellington. 9.0—Third News.

9.25—News from Canada.

9.30—"World Affairs."

9.45—BBC Theatre Orchestra.

10.45—Herman Darewski's New Melody Rhythm Band.

11.30—Records.

11.50-12.0—News Summary.

Wales

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m. D=Droitwich.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Down the Dalmatian Coast." 11.0—Records.

11.20—Cinema Organs.

11.50—Light Music from France.

12.15 p.m.—Records.

1.0—County Cricket commentaries.

1.30—Harold Rhodes (Organ).

2.0—BBC N. Ireland Orchestra.

3.0—Arthur Salisburys Orchestra.

3.20—"The Three Nomads."

3.35—"Accent on Rhythm."

3.50—Sonata Recital.

4.15—"Where's Mr. Jones?" short story.

4.30—"Verlaine and The Musicians;" records.

5.0—"Bank Holiday;" records.

5.30—County Cricket commentaries.

6.0—The First News.

6.20—"Business Outlook from America;" H. B. Elliston.

6.25—"Frederic Curzon (BBC Theatre Organ).

7.0—Au Revoir, Monday Night at Seven.

8.0—Roy Henderson (Baritone)."

8.20—"Swing High, Swing Low," an appreciation of the music of Duke Ellington. 9.0—Third News.

9.25—News from Canada.

9.30—"World Affairs."

9.45—BBC Theatre Orchestra.

10.45—Herman Darewski's New Melody Rhythm Band.

11.30—Records.

11.50-12.0—News Summary.

N. Ireland

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m. D=Droitwich.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Down the Dalmatian Coast." 11.0—Records.

11.20—Cinema Organs.

11.50—Light Music from France.

12.15 p.m.—Records.

1.0—County Cricket commentaries.

1.30—Harold Rhodes (Organ).

2.0—BBC N. Ireland Orchestra.

3.0—Arthur Salisburys Orchestra.

3.20—"The Three Nomads."

3.35—"Accent on Rhythm."

3.50—Sonata Recital.

4.15—"Where's Mr. Jones?" short story.

4.30—"Verlaine and The Musicians;" records.

5.0—"Bank Holiday;" records.

5.30—County Cricket commentaries.

6.0—The First News.

6.20—"Business Outlook from America;" H. B. Elliston.

6.25—"Frederic Curzon (BBC Theatre Organ).

7.0—Au Revoir, Monday Night at Seven.

8.0—Roy Henderson (Baritone)."

8.20—"Swing High, Swing Low," an appreciation of the music of Duke Ellington. 9.0—Third News.

9.25—News from Canada.

9.30—"World Affairs."

9.45—BBC Theatre Orchestra.

10.45—Herman Darewski's New Melody Rhythm Band.

11.30—Records.

11.50-12.0—News Summary.

Scotland

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m. D=Droitwich.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Down the Dalmatian Coast." 11.0—Records.

11.20—Cinema Organs.

11.50—Light Music from France.

12.15 p.m.—Records.

1.0—County Cricket commentaries.

1.30—Harold Rhodes (Organ).

2.0—BBC N. Ireland Orchestra.

3.0—Arthur Salisburys Orchestra.

3.20—"The Three Nomads."

3.35—"Accent on Rhythm."

3.50—Sonata Recital.

4.15—"Where's Mr. Jones?" short story.

4.30—"Verlaine and The Musicians;" records.

5.0—"Bank Holiday;" records.

5.30—County Cricket commentaries.

6.0—The First News.

6.20—"Business Outlook from America;" H. B. Elliston.

6.25—"Frederic Curzon (BBC Theatre Organ).

7.0—Au Revoir, Monday Night at Seven.

8.0—Roy Henderson (Baritone)."

8.20—"Swing High, Swing Low," an appreciation of the music of Duke Ellington. 9.0—Third News.

9.25—News from Canada.

9.30—"World Affairs."

9.45—BBC Theatre Orchestra.

10.45—Herman Darewski's New Melody Rhythm Band.

11.30—Records.

11.50-12.0—News Summary.

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m.

6.0 p.m.—Music and Humour sung and spoken by Max Bing.

7.0—Sports Echoes.

7.20—Ballet Records and Records of the Don Cossack Choir.

8.0—News.

8.15—"Love in May"—Dance Music. Orchestra, etc. Conductor: Willy Steiner.

10.0—News; Sports; Music.

10.35—See Königsberg.

12.0 m.t.-3.0 a.m. (Tuesday)—See Munich.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).

11.0 a.m.—Band.

11.35—Ursula von Wiese reads.

12.2 p.m.—Orchestra, Conductor: Hofmann; at 12.30-12.40—News.

1.30—Talk: "Joh. von Müller."

2.0-3.0—Yodels; Ländlers.

5.0—Records; at 5.15—Reading.

6.0—Ida Furrer (Zither).

6.30—Talk: "Joh. Georg Bodmer."

7.0—Time; Records.

7.30—News; Records.

8.0—Talk: "Swiss Landscapes."

8.25—Weather; Programmes.

8.30-10.30—For Swiss Abroad.

8.30—"The Ticino"—Tableaux (Guido Calgari); Music by Martegazzi. Conductor: The Composer.

10.15-10.30—Weekly Review.

BORDEAUX-LAFAYETTE

1,077 kc/s (278.6 m.); 60 kW. Transmits at intervals from 6.30 a.m.

7.30 p.m.—Radio Journal; Weather.

8.0—See Brussels (No. 1).

9.30—Records.

10.30—News; Weather.

10.55—See Paris (PTT).

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. Presov, etc. See Sunday.

Transmits at intervals from 7.0 a.m.

9.0 a.m.—Mass from the Franciscan Church.

10.0 (from Presov)—Protestant Service; Unveiling of the Andrej Hlinka Memorial Tablet at Nizny Sebes.

12.5 p.m.—News; Music; Records.

4.30—Military Band.

5.15 (from Presov)—Songs.

5.50—Music.

6.0—German Programme.

6.45—News (German); Military Notes.

7.10—News; Topical.

7.30—Wind Band.

8.0—One-Act Play (Mach).

8.40—Slovak Dance Songs.

9.0—Foreign Affairs.

9.15—Concert.

9.45—News; Dance Records.

10.30—News (Hungarian); Records.

BRESLAU

950 kc/s (315.8 m.); 100 kW. Gleiwitz, etc. See Sunday.

Transmits at intervals from 5.0 a.m.

6.0 p.m.—"Klänge im All"—Catala on the Miracle of Radio (Szukla).

7.0—Virtuoso Records.

7.30—Sports Reports; News.

8.15—Blue Monday: "Love and Trumpets"—Variety, with a Trumpeter Corps, Orchestra, Dance Band, etc.

10.0—News; Sports; Music.

10.35-12.0 m.t.—See Königsberg.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW. 6.30-9.0 a.m.—Records; Gym; News.

12.0 noon—INR Jazz Band; Records; at 12.30 p.m.—Shipping; at 1.0—News.

2.6-2.3—Art Notes.

4.45—News.

5.0—Omer Dance Band; Reading.

6.0—Talk: "Singers and Orators."

6.15—Mile Brullez (Songs).

6.30—Reading (Selma Lagerlöf).

6.45—Mile Tambuyser (Pfte.).

7.0—Talks: (a) "Liege Events," (b) "Liege Exhibition;" Interview.

7.15—Records: Light Music.

7.30—Journal Parle.

8.0—"Les faux mendiants"—One-Act Opera (Gresnick). Conductor: Souris.

9.30—Evolution of Choral Music (No. 8)—INR Choir. Conductor: Weynandt. Commentary by Charles Van den Borren. La vendange (Doret), Hungarian Folk-Song (arr. Kodály). Dans la montagne (Gras). Bourbonnais Folk-Songs (arr. Ropartz). Trois beaux oiseaux du paradis (Ravel). Ronde de fées (Pierné).

10.0—Journal Parle.

10.10-11.0—INR Jazz Band.

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.

6.30-9.0 a.m.—Records; Gym; News.

12.0 noon-2.0 p.m.—Records; at 12.30—Weather; at 1.0—News.

4.45—News; Records.

5.45—For Children.

6.30—Request Records.

7.30—Film Review.

8.0—"Blue Bird" Cabaret.

8.45—Talk.

9.0—"Blue Bird" Cabaret.

10.0—Sports Review.

10.10-11.0—Records. Excerpts, "The Barber of Seville" (Rossini), "Coppelia" (Delibes), "Berenice" (Handel-Best), Matinata (Leoncavallo), Wedding Waltz (Lincke), Aria, "L'Etoile du Nord" (Meyerbeer), Passepied (Delibes). Selection, "Eva" (Lehár), Aria, "Werther" (Massenet), Edmont Overture (Beethoven), March (Joosen).

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.).

Transmits at intervals from 7.30 a.m.

6.17 p.m.—Folk-Dance, "Calusarii" (arr. Constantinesco).

6.35—"Bucharest of Other Days"—Talk with Music.

7.20—Talk.

7.35—Chamber Music.

8.0—Brediceano Orchestral Music. Conductor: The Composer.

9.0—News; Sports Notes.

9.15—Dance Records.

10.0—News.

10.15—Concert.

10.45—News (French, German, Italian).

BUDAPEST

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 8.40 a.m.

12.30 p.m.—Wind Band.

1.10—Books; Reading.

2.15—Records.

3.0—Siofok Choir, from Siofok.

4.5—Talk: "Famous Poems."

4.35—Veress Cigány Band; at 5.0—News (Slovak, Ruthenian).

5.45—Discussion: "The Carpathian Districts."

6.15—Dance Records.

6.50—Discussion: "The State."

7.15—News.

7.30—"The Golden Bastion"—Three-Act Play (Surányi).

9.40—News.

10.0—Joska Kiss Cigány Band.

10.40—News (German, Italian).

10.50—News (English, French).

11.0—Band. Prelude, "Miss America" (Eisemann). Lullaby (Gebhardt). Spanish Serenade (Bizet). Viennese Dance (Friedmann-Gärtner). Brazilian Tango (Szántó). Waltz (Szűcs). Serenade (Drigo). Waltz Potpourri (Ziehrer). Selection, "The Bird-Fancier" (Zeller).

12.5-12.15 a.m. (Tuesday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m.

6.0 p.m.—Jäger (Baritone), Berger (Violin) and Fassbender (Pfte.).

6.30—"Wilhelm Busch on Love"—Sequence (Balzer); Music by Müller.

7.0—"Whitsun"—Report; Sports.

7.30—"German Girls' League Rally."

8.0—News.

8.15—News (English).

8.30—Whitsun Variety—Eysoldt Orchestra, etc.

10.0—News.

10.15—News (English).

10.35—Lutter Dance Band.

12.0 m.t.-2.0 a.m. (Tuesday)—See Munich.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m.

6.0 p.m.—"The Bartered Grandfather"—Peasant Grotesque (Hamik).

6.35—Contemporary Composers—Essen Municipal Orchestra, Conductor: Bittner, Hermann Drews (Pfte.) (Düsseldorfer Music Festival Recordings). Pfte. Concerto (Bresgen). Concerto for Strings (Wartisch). Hamburg Humoresque (Uldall).

7.35—Sports Echoes; News.

8.15—See Leipzig.

10.0—News; Weather; Sports.

10.20—Serenade—Zernick String Quartet; Renner (Pfte.). Dances (Boccherini). Pfte. Pieces (Jentsch). Impressions (Renner), by the Composer (Pfte.).

10.45—Weather.

11.0-12.0 m.t.—Music from Vienna.

FRANKFURT

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday.

Transmits at intervals from 6.0 a.m.

6.0 p.m.—Visits to Youth Hostels.

7.0—Sports Report; Records.

7.50—Report from the Wasserkuppe, Rhön: The Reich Model Glider Competitions.

8.0—Time; News; Weather.

8.15—"Schön ist die Welt" (Lehár).

10.0—Time; News; Music.

10.35-12.0 m.t.—See Königsberg.

HAMBURG

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday.

Transmits at intervals from 6.0 a.m.

6.0 p.m.—Dialect Tales with Music.

7.0—Records; Folk-Music.

7.30—Sports; Weather; News.

8.15—News in English.

8.30—Variety from Breslau.

10.0—News.

10.20—News in English.

10.35—See Königsberg.

12.0 m.t.-3.0 a.m. (Tuesday)—See Munich.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW. until 7.40 p.m.; 120 kW from 7.40 p.m. and Jaarsveld, 722 kc/s (415.5 m.); 17 kW.

8.10 a.m.—NCRV Service.

9.10-11.55—KRO Programme.

9.10—Records.

9.40—High Mass from Sittard.

10.25—Records.

11.55 till Close—NCRV Programme.

11.55—Records.

12.55 p.m.—Amsterdam Salon Orchestra and Records.

2.55—"De Hofstad" Vocal Quartet and Records.

3.40—Gray (Organ); Records.

4.55—For Children; Records.

6.10—NCRV Mixed Choir and Orchestra. Conductor: v. d. Hurk. Paraphrases (Schopp). Concerto grosso (Handel). Sacred Songs (J. W. Franck). Andante in C (Mozart). Pieces for Choir (Hamer, Bach, Scarlatti, Haydn, Homilus, Mendelssohn). In the interval, Recitation.

7.25—Talk by M. Bouman.

7.40—News; S G S Messages.

7.55—Choir and Orchestra. Psalm 150 (Frank). Excerpt, "L'En-

fance du Christ" (Berlioz). Jubilate and Chorale (Bortniansky). Mendelssohn Potpourri (Urbach). Abide with me (Liddell). Roses (Adams). The Holy City (Adams). In the interval, Recitation.

8.55—Report: The Music Competition at Wommels.

9.40—News; Topical Report.

10.10—"Postillions"—Orchestra. Overture, "Le postillon de Longjumeau" (Adam). Selection, "La fille de Madame Angot" (Lecocq). Le signal (Guillemin). Wedding March (Hrubby). The Postillions (Anon.). Polka (Lohmann). Polks (Schneider). Die Wachtparade kommt (Eilenberg).

10.55—Records.

11.30-11.40—Bible Reading.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 15 kW until 7.40 p.m.; 65 kW from 7.40 p.m.

7.40-9.40 a.m.—AVRO Programme.

7.40—Palle (Organ); Records.

8.40—Time; Service.

8.55—Sacred Music by Piet van Edmond (Organ), Louis Mieremet (Viola) and Baylé (Tenor).

9.40-11.40—VPRO Programme.

9.40—Concert.

10.10—Service from the Protestant Church at Laren-Blaricum.

11.40 till Close—AVRO Programme.

11.40—Time; AVRO Variety Orchestra. Conductor: Kuhlman.

12.45 p.m.—Records.

1.10—A Brain Test: Batavia v. Amsterdam.

1.40—"The Twins"—Play (Naef).

2.35—AVRO Aeolian Orchestra.

3.25—Mouth-Angel Music.

3.40—Sports Commentaries: (a) Gymnastic Festival at Arnhem, (b) Football Match at Nimegen.

4.40—Talk with Records.

5.25—The Vagabonds, with Marguerite Paquet (Songs) and The Two in Harmony.

6.10—Guitar and Mandoline Band.

6.40—Cabaret, with the Romancers, Pat Miller, Chiel de Boer, etc.

7.40—Time; News; Sound News.

8.0—Opera and Operetta Music—AVRO Orchestra, Conductor: Treppe, Greta Burbach (Soprano), Viskil (Tenor).

9.10—"Are you an Inspector Hornleigh?"—Sketch.

9.30—Symphony Orchestras and Jussi Björling (Tenor) (Recorded).

10.10—AVRO Girls and Palla (Organ).

10.40—News; Cigány Music.

11.25-11.40—Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).

Transmits at intervals from 8.0 a.m.

12.0 noon—Preil's Ensemble.

12.45 p.m.—For Housewives.

12.55—Klinge (Sjögren Songs).

1.15 (approx.)—Preil's Ensemble.

2.0—Service from Christiansborg Castle Church.

3.30—For Children.

4.0—Open-Air Concert. Wind Band, Conductor: Hye-Knudsen. Part I: Danish Music. March (Lumbye). Overture, "Elisa" (Kuhlauf). Romance, "Elverskud" (Gade). Excerpts, "King and Marshal" (Heise). March and Dance, "The Shepherdess and the Chimneyweep" (Enna). Dance, "Aladdin" (Nielsen). Ten-Minute Interval. Part II. March (Souza). Waltz (Waldteufel). Overture, "Si j'étais roi" (Adam). Annenpolka (Strauss). Mazurka (Ganne). Excerpts, "Carmen" (Bizet).

6.0—Reading (Gross).

6.20—Aksel Agerby Choral Concert.

6.50—"Bel Canto" Male Voice Choir, Conductor: Clausen.

7.0—Weather.

7.30—Talk and Reading: "Georg and Edvard Brandes exchange Letters with Scandinavian Authors."

8.0—"The Hansens"—Sketch (Locher).

MONDAY (May 29)

Marguerite Soyer (Songs), Benedetti (Violin) and Navarra (Cello). Two Pftes.: French Rhapsody (Florent Schmitt). Songs: (a) La Mosquée (Clergue), (b) Jeux rustiques (Beydts), Sonatina for Violin and Cello (Rivier). Songs: (a) Complainte de Ruteboeuf (Thiriet), (b) Chanson de fol (Hubeau).

8.30-10.30 (approx.)—See Beromünster.

10.30—Topical Review for Swiss Abroad.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday.

Transmits at intervals from 7.20 a.m.

5.30 p.m.—Records.

6.30—Discussion: The Church.

7.15—News; Weather.

7.30—Anita Harrison (Pfte.). Pieces (Palmgren): (a) Svanen, (b) Havet. Etudes and Polonaise (Chopin).

7.50—Talk: The New York World's Fair.

8.20—"The Desert Song"—Operetta (Romberg). Conductor: Axelsson.

10.0—News; Sports Notes.

10.30-11.0—String Quartet in A (Raphael) by the Stockholm Quartet.

STRASBOURG

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m.

1.40 p.m.—Orchestra. Conductor: de Villers. Overture, "Fra Diavolo" (Auber). Scènes pittoresques (Massenet). Hydropathen-Walzer (Gungl). Two Slav Dances (Dvořák).

2.20—Records.

3.0—Folk Music.

3.45—Records: Film Songs.

4.0—Tourist Talk; Records.

4.25—Orchestra and Pfte. from Montpellier (PTT).

5.5—Pogoda and Halter (Pftes.). Mlle Genya-Marat (Mezzo-Soprano). Divertimento (Gouvy). Songs (Blancher). Caprice mélancolique (Hahn). Scherzo (Coerdis Mongin). Songs (Hahn).

6.0—Literary Review; Talk.

6.30—See Lyons (PTT).

7.0—News (French, German).

7.30—Sports; Mozart Records.

8.0—News (French, German).

8.15—Records: Le carnaval des animaux (Saint-Saëns).

8.45—Violin Records.

9.0—Opéra-comique and Operetta Music—Station Orchestra. Conductor: de Villers. Jeanne Wild and Gillig (Songs). Excerpts, "Le châtelet" (Adam), and "Le voyage en Chine" (Bazin). Ballet, "Les saltimbanques" (Ganne). Excerpts, "The Merry Widow" (Lehár).

10.30—News (French, German).

10.45-11.0—"La Voix de Nancy"—Sequence.

—Sequence.

STUTTGART

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 6.0 a.m.

6.30 p.m.—"Als ich wiederkam"—Play (Hofbauer).

7.30—Sports Reports; Records.

8.0—News.

8.15—The Jolly Whitsun Express—Orchestra and Choir. Jautz (Tenor). Overture, "Die Abreise" (d'Albert). Arias, "Carmen" (Bizet), "La Gioconda" (Ponchielli). Hungarian Rhapsody (Liszt). Chorus, "The Bartered Bride" (Smetana). Neapolitan Pictures (Culotta). Romanian Rhapsody (Erhardt). Tone Picture (Hippmann). Chorus, "Boccaccio" (Suppé). Song, "Paganini" (Lehár). Scottish Bagpipes (Winkler). Song and Czaradas (Brühne). Chorus, "The Geisha" (Jones). Wiener Blut (Strauss). Czaradas (Muhr). Frühling in Heidelberg (Brückner). Song (Kowari). March (Schröder).

10.0—News; Sports; Music.

10.35—See Königsberg.

12.0 m.t.—2.0 a.m. (Tuesday)—See Munich.

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 12.0 noon.

6.55 p.m.—News; Sports Notes.

7.5—Operetta Music: Excerpts, "The Tsarevitch" (Lehár); "The Drum Major's Daughter" (Offenbach). "La fille de Madame Angot" (Lecocq), "Les mousquetaires au couvent" (Varney) and "Deux sous de fleurs" (Benatzky).

7.15—Cigany Band; Sketch.

7.25—Talk.

7.40—Successes of To-day.

7.55—News; Sketches.

8.10—Variety with St. Granier and Yvonne Galy.

8.50—Talk.

8.55—Excerpts, "Three Waltzes" (O. Strauss).

9.0—"Afrique pour rire"—Fantasy.

9.15—Musical Interlude.

9.30—Humorous Orchestra.

9.40—Humorous Sketch; Talk.

10.0—News.

10.15—M. Saint-Paul and his Musette Orchestra.

11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 30 kW. Milan (No. 1), etc. See Sunday.

Transmits at intervals from 7.30 a.m.

5.0 p.m.—News.

5.15-5.50—Dance Music.

7.10—Royal Geographical Society's Report; Records.

7.40—See Rome Group.

8.0—News; Topical; Records.

8.36—Milan (No. 1) and Rome (No. 2) only—News (German).

9.0—"Frasquita"—Operetta (Franz Lehár). Conductor: Del Vecchio. In the intervals, Talk; (Milan (No. 1) only—Talk in Danish); Announcements.

11.0—News.

11.15-12.0 m.t.—See Rome Group.

LAST NEWS BULLETINS (daily, but subject to slight alterations)

9.40 Oslo; 10.0, Brussels stations, Bucharest, German stations, Stockholm; 10.30, Paris (PTT), Radio - Éireann; 10.40, Hilversum 1; 10.45, Radio-Paris; 11.0, Italian stations, Warsaw.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday.

Transmits at intervals from 5.57 a.m.

3.10 p.m.—Dannehl and Wolf Songs by Anton Gruber-Bauer (Baritone).

3.30—Talk with Records: A Castilian Peasant Wedding.

4.0—Variety—Toni Gerhold (Soprano), Dermota (Tenor), Sandauer and Diwisch (Pfte. Duo), Ernst Track (Comedian), Noe (Saxophone) and Orchestra. Conductor: Sandauer.

6.0—Folk Dances and Songs—Zanoskar Musicians, Kurz Yodel Duo, Fürk (Zither).

6.40—"Tyrolean Poetry Book"—Josef Leitgeb reads.

7.0—"A Jolly Whitsun Outing."

7.30—"The Bartered Bride" (Smetana) from the State Opera. Conductor: Loibner. Cast: Viktor Madin, Olga Levko Antosch, Maria Reining, Karl Etti, Dora With, William Wernigk, Emmerich von Godin, Fritz Krenn, Anton Arnold, Dora Komarek and Alfred Muzarelli; at 9.5-9.20—News; Weather.

10.10—News; Sports.

10.30-12.0 m.t.—Light and Dance Music. Conductor: Sandauer. Goodbye Johnny (Kreuder). Cairo (Helgar). Overture, Bagatelle (Rixner). Accordion: Caratrac (Kruschnik). Julika (Lanyi). Tango (Lukus). Drunter und drüber! (Igelhoff). Mein Herz ist so schwer! (Jerocnik). Pasodoble (Marquina). Klingende Wochenschau (Fischer). Von mir aus kanns regnen! (Richartz). Pte.: Reminiscence (Diwisch), by the Composer, Schliesch's Himmelmelch (Krüger-Hanschmann). Abschied (Kletsch). Amphitryon-Walzer (Doelle). Der Grosspapa von Grossmama (Raymond). Rote Rosen (Ritter). Egyptian Intermezzo (Hellmer). Acht Tage Glück (Rust). Rhapsody (Pero). Valerie, valera! (Stolz).

10.10—News; Sports.

10.30-12.0 m.t.—Light and Dance Music. Conductor: Sandauer. Goodbye Johnny (Kreuder). Cairo (Helgar). Overture, Bagatelle (Rixner). Accordion: Caratrac (Kruschnik). Julika (Lanyi). Tango (Lukus). Drunter und drüber! (Igelhoff). Mein Herz ist so schwer! (Jerocnik). Pasodoble (Marquina). Klingende Wochenschau (Fischer). Von mir aus kanns regnen! (Richartz). Pte.: Reminiscence (Diwisch), by the Composer, Schliesch's Himmelmelch (Krüger-Hanschmann). Abschied (Kletsch). Amphitryon-Walzer (Doelle). Der Grosspapa von Grossmama (Raymond). Rote Rosen (Ritter). Egyptian Intermezzo (Hellmer). Acht Tage Glück (Rust). Rhapsody (Pero). Valerie, valera! (Stolz).

10.10—News; Sports.

10.30-12.0 m.t.—Light and Dance Music. Conductor: Sandauer. Goodbye Johnny (Kreuder). Cairo (Helgar). Overture, Bagatelle (Rixner). Accordion: Caratrac (Kruschnik). Julika (Lanyi). Tango (Lukus). Drunter und drüber! (Igelhoff). Mein Herz ist so schwer! (Jerocnik). Pasodoble (Marquina). Klingende Wochenschau (Fischer). Von mir aus kanns regnen! (Richartz). Pte.: Reminiscence (Diwisch), by the Composer, Schliesch's Himmelmelch (Krüger-Hanschmann). Abschied (Kletsch). Amphitryon-Walzer (Doelle). Der Grosspapa von Grossmama (Raymond). Rote Rosen (Ritter). Egyptian Intermezzo (Hellmer). Acht Tage Glück (Rust). Rhapsody (Pero). Valerie, valera! (Stolz).

10.10—News; Sports.

10.30-12.0 m.t.—Light and Dance Music. Conductor: Sandauer. Goodbye Johnny (Kreuder). Cairo (Helgar). Overture, Bagatelle (Rixner). Accordion: Caratrac (Kruschnik). Julika (Lanyi). Tango (Lukus). Drunter und drüber! (Igelhoff). Mein Herz ist so schwer! (Jerocnik). Pasodoble (Marquina). Klingende Wochenschau (Fischer). Von mir aus kanns regnen! (Richartz). Pte.: Reminiscence (Diwisch), by the Composer, Schliesch's Himmelmelch (Krüger-Hanschmann). Abschied (Kletsch). Amphitryon-Walzer (Doelle). Der Grosspapa von Grossmama (Raymond). Rote Rosen (Ritter). Egyptian Intermezzo (Hellmer). Acht Tage Glück (Rust). Rhapsody (Pero). Valerie, valera! (Stolz).

10.10—News; Sports.

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7.15—"Don Juan" (Mauriac), with Mozart and Mendelssohn Music.
 7.30—I.N.R. Review.
 8.0—Orchestra. Conductor: Gason. Alice de Belleruche (Guitar), Sophie Noël (Songs). Prelude (Albeniz). Theme with Variations (Spitzmuller). Barcarolle (Albeniz). Spanish Songs to the Guitar: (a) Tirana del Caramba, (b) Rondaña, (c) Malagueña, (d) Polo, (e) La luma. Orientale (Albeniz). Guitar Quintet (Boccherini). Torre Bermeja (Albeniz).
 9.0—Talk.
 9.15—English and American Music. Conductor: Gason. Joyous Youth (Coates). Metropolis (Grofe). Paris Suite (Haydn Wood). The Three Bears (Coates). Allegro perpetuo (Savino).
 10.0—News; Records.
 10.55—Christus Vincit (Liszt).

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
 6.30-9.0 a.m.—Records; Gym; News.
 12.0 noon—Records; at 12.30 p.m.—Weather; at 1.0—News.
 2.0-2.50—For Schools.
 4.55—News.
 5.0—I.N.R. Symphony Orchestra. Conductor: Dejoncker, and Records. La jeunesse d'Hercule (Saint-Saëns). Song Records. Second Hungarian Rhapsody (Liszt). Excerpts, "The Damnation of Faust" (Berlioz).
 5.45—For Children.
 6.30—Song Records; Talk.
 7.30—News.
 8.0—"De Roode Reinaert"—Cabaret (Suls); at 8.45-9.0—Talk.
 10.0-11.0—News; Records.

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.).
 Transmits at intervals from 6.0 a.m.
 6.17 p.m.—Records.
 7.0—Talk.
 7.15—Restaurant Concert.
 8.0—Yugoslav Symphony Concert. Guest Conductor: Vukdragovici.
 9.0—News; Sports Notes.
 9.15—Records; Italian Singers.
 10.0—News; Records; Rhapsodies.
 10.45—News (French, English).

BUDAPEST

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m.
 12.10 p.m.—Racz Cigany Band; at 12.40—News.
 1.30—Band.
 2.30—News.
 4.10—For Housewives.
 4.45—News.
 5.0—News (Slovak, Ruthenian).
 5.10—Transport Workers' Band.
 6.0—Topical Report.
 6.40—"Ces Quatres" Vocal Ensemble of Poland.
 7.15—News.
 7.25—Suki Cigany Band.
 8.10—Talk, with Readings: "Madách."
 8.40—Opera Orchestra. Conductor: Fridl. Overture, "Oberon" (Weber). Algerian Suite (Saint-Saëns). Serenade (Benedek). Dances (Borodin).
 9.40—News.
 10.0—Heinemann Jazz Band.
 10.40—News (German, Italian).
 10.50—News (English, French).
 11.0—Ernst Glaser (Violin).
 11.30—Talk in Italian: "Artisti italiani sulle scene ungheresi."
 11.45—Records: "Háry János" (Kodály).
 12.5 a.m. (Wednesday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m.
 6.0 p.m.—German Artists visit Northern and Central Italy.
 6.40—Willi Niggeling plays his own Pfte. Music. Suite. Intermezzi. Heitere Musik.
 7.0—Topical Mirror.
 7.10—For Mother and Child.
 7.55—Topical Talk; News.
 8.15—News in English.
 8.30—Operetta Music.
 9.30—"Cologne Caviar"—Folk Programme (arr. Kürtén).
 10.0—News.
 10.15—News in English; Films.
 10.50—"Bizet"—Biographical Sketch (Herzog), with Records of the Composer's Music.
 11.35-12.0 m.t.—Records.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m.
 4.0 p.m.—Dobrinde Orchestra; at 5.0-5.10—Reading.

6.0—Talks.
 6.35—Walter Niemann plays his own Pfte. Music. Old Greek Temple Dance. Barcarolle. Old Vienna. Singende Fontäne. Arabesque.
 7.0—See Hamburg.
 8.0—Motto; News.
 8.15—Station Symphony Orchestra. Conductor: List. Metzler ("Cello"). Symphony in D (Cherubini). "Cello Concerto (Schumann). Overture, "Käthchen von Heilbronn" (Pfitzner).
 9.15—Political Press Review.
 9.30—"The Magic of Melody"—Lierke Poems with Music on Records.
 10.0—News.
 10.20—Violin Sonatas (Leclair, Mozart); Weather.
 11.0 p.m.—12.10 a.m. (Wednesday)—Eine Faust-Symphonie (Liszt) (Recorded).

FRANKFURT

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday.
 Transmits at intervals from 5.0 a.m.
 6.30 p.m. (from Freiburg)—Folk Music of the Black Forest—Bischoff Black Forest Musicians, Pfaff Village Band and Triburg Accordion Band.
 7.15—Topical Mirror.
 7.30—Holiday Songs and Melodies.
 8.0—See Stuttgart.
 8.15—"The Main"—A Trip Along the River from Bamberg to Mainz.
 10.0—News; Political Press.
 10.35-12.0 m.t.—See Hamburg.

HAMBURG

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday.
 Transmits at intervals from 5.45 a.m.
 6.0 p.m.—"The River Alster"—

6.55—Talk: "Portugal;" Records.
 7.30—Swimming Lesson.
 7.40—News; Announcements.
 7.55—Rotterdam Philharmonic. Conductor: Flipse; Raskin (Violin). La Rédemption (Franck). Poème (Chausson). Ballet, "Le festin de l'Araignée" (Roussel). Introduction and Rondo capriccioso (Saint-Saëns). Suite, "L'Arlesienne" (Bizet).
 9.10—Twelfth Centenary of the Death of St. Willibrord—Report on the Dancing Procession of Echternach, Luxembourg.
 10.10-11.40—News; Records.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 15 kW until 7.40 p.m.; 65 kW from 7.40 p.m.
 AVRO Programme.
 7.40 a.m.—Time; Records.
 8.40—Records: London Philharmonic.
 9.40—Service; Records; Talk.
 10.15—Egbert Veen (Pfte.).
 10.40—For Women; Cookery.
 11.15—AVRO Orchestra, Conductor: Treep; at 11.55—Records.
 12.55 p.m.—Jetty Cantor's Ensemble. Records in the interval.
 2.25—Dressmaking Lesson.
 3.25—Gerrit Müller (Tenor).
 3.45—Ina Veen (Pfte.).
 4.10—Children's Choir.
 4.40—For Children.
 5.10—Military Band. Conductor: van der Glas. In the interval—French Song Records.
 6.40—May Songs by a Children's Choir.
 7.10—English Lesson.
 7.40—News; Sound News; Records.
 8.10—"Tuesday Night Special"—Variety with Lou Bandy, Jenny Jungbauer, the Three Hawk Courts (Harmonicas), etc.



M. Raskin, the Belgian violinist, who is the soloist in the Hilversum No.1 broadcast at 7.55 p.m.

9.40—"Charlie Chan"—Thriller (Morgan).
 10.5—New Records.
 10.40—News.
 10.50—AVRO Dance Band.
 11.20-11.40—Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).
 Transmits at intervals from 7.0 a.m.
 12.0 noon—Preil's Ensemble.
 2.0 p.m.—Whitsun Concert from Aarhus Cathedral. Jørgen Nielsen (Organ). Rasmussen (Songs). Choral with Variations (Walther). Songs (Beethoven): (a) Busslied, (b) Die Ehre Gottes. Organ Prelude (Bach). Two Old Songs. Allegro moderato in C minor (Guilmant). Songs (Raaed, Bondesen, Lindemann). Andante in F (J. Nielsen). Whitsun Prelude (J. Nielsen).
 3.0—Radio Orchestra, Conductor: Tuxen.
 4.30—For Children.
 4.50—Wireless Notes.
 5.0—Talk: "Denmark's Flora."
 5.25—Weather; Exchange; Markets.
 5.50—Arne Ponsaing (Balalaika and Guitar), Eli Ponsaing (Guitar); Records.
 6.15—Talk: "The Modern Woman's Point of View."
 6.35—German Lesson.
 7.0—Time; News.
 7.30—Scandinavian Review.
 8.0—Orchestra, Conductor: Gröndahl. Overture, "La Princesse de Trébizonde" (Offenbach). Hungarian Rhapsody (Liszt). Selection, "The Merry Widow" (Lehár).
 8.55—Reading (Thit Jensen).
 9.15—Cinema Organ Music from the Palladium.
 9.30—For Youth.
 10.0—News.

TUESDAY (May 30)

10.20—French Talk: Traductions françaises de la littérature moderne danoise.
 10.30—Variety Programme with Operetta Music, Jazz Music, a Sketch, etc. Edgar Hansen, Liza Haidt, Carola Merrild, Aage Foss, Katy Valentin, Phieffer and Miss Tommy.
 11.20 p.m.—12.30 a.m. (Wednesday) Julian Dance Band from Aalborg.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
 Transmits at intervals from 5.0 a.m.
 6.15 p.m.—Hurdy-Gurdy; Ballads.
 6.45—Topical Talk.
 7.0—Dance Band, etc.; Talk.
 8.0—News.
 8.15—Album of Pfte. Pieces for the Young (Kühnert).
 9.15—"Königsberg Docks"—Word Pictures.
 10.0—News; Political Press.
 10.35-12.0 m.t.—Dance Band, etc.

LEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).
 Transmits at intervals from 5.45 a.m.
 6.20 p.m.—Pfitzner Songs by Günter (Bass); Books.
 7.0—Folk-Songs and Folk-Dances. Chemnitz Choral Society; Orchestra. Conductor: Blumer. Lustiger Aufzug (Rückert). Songs (Geilsdorf). Waltz (Rückert). Songs (Geilsdorf, Silcher). Folk-Song (Hamerik). Songs (Petzold, Silcher). Im Walde (Hamerik). Songs (Schumann, Schubert). Variations (Rückert); Talk.
 8.0—News.
 8.15—Cabaret—Fricke Band.
 9.0—"A Trip on the Upper Rhine"—Holiday Sequence.
 10.0—News.
 10.20 (from Dresden)—Woodwind Quartet and Rondo (Rossini).
 10.45-12.0 m.t.—Music from Hamburg.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
 5.30 p.m.—Coecilia Quartet. Spring Song (Mendelssohn). Le Corbeau et le Renard (Graud). Berceuse amoureuse (Lenormand). Auprès de ma blonde (Darcieux); Elegiac Song (Beethoven). Quartet, "Rigoletto" (Verdi).
 6.0—Literary Talk; Records.
 6.30—Educational.
 7.0—Mme Dancel-Surmont (Pfte.). Preludes in D flat and in E flat (Chopin). Prelude (Ratzek). Sarabande (Debussy). La marchande d'eau fraîche (Ibert).
 7.30—Radio Journal de France.
 8.15—Mlle Leroy (Songs).
 8.30—See Paris (Radio-Paris).
 11.30 (approx.)—Programme, News, Exchange.

LISBON

629 kc/s (476.9 m.); 20 kW. Transmits at intervals from 1.0 p.m.
 8.30 p.m.—News; For Farmers.
 9.0—Sextet; at 9.30—Topical Talk.
 10.0—Concert; at 10.30—Talk.
 11.30—News; Request Music.
 12.30-1.0 a.m. (Wednesday)—Weather; Dance Music.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon.
 7.50 p.m.—News.
 8.0—Walter Jesinghaus-Galli Music by the Radio Orchestra. Conductor: The Composer. Music for Strings. Il fanciullo astrale. Spielmusik for Strings. Musica festiva for Flute, Trombone, Pfte. and Strings.
 8.40—Provincial Programme.
 10.0-10.15—Dance Records.

MONTEPELLIER (PTT)

1,339 kc/s (224 m.); 1 kW. Transmits at intervals from 6.30 a.m.
 8.30 p.m.—Orchestra, Conductor: Ciappi. Georges Grosel (Violin) and Francis Lauret (Baritone). Overture to an Imaginary Operetta (Rivier). Prélude chorégraphique (Delvincourt). Violin and Orchestra: Fantaisie basque (Pierné). Variations chromatiques (Bizet). Songs (Duparc, Beethoven, Fauré). Sérénade (Milhaud).
 10.30—News; Records.

MOSCOW

172 kc/s (1,744 m.); 500 kW. Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW. See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
 Transmits at intervals from 6.0 a.m.
 4.0 p.m.—Hans Wedig conducts his own Music. Nachtmusik. Erfüllung. Wessobrunner Gebet.
 4.40—Tales for Children.
 5.0—Time; Weather; Markets.
 5.10—Orchestra, Dance Band.
 6.45—Anniversaries; Book Talk.
 7.0—See Hamburg.
 8.0—Time; News.
 8.15—See Frankfurt.
 10.0—Time; News.

10.20 (from Nürnberg)—Serenade—Orchestra, etc. Conductor: Schwarz. March (Rixner). Overture, "Marinella" (Fucik). Vom Rhein der Wein (Brandt). Nur für dich allein (Ritter). Valse-caprice (Treidler). Wasserspiele (Ritter). Serenade (Kreuder-Rixner). Song (Heiser). Schabernack (Richter). Selection, "Der Prinz von Thule" (Katnigg). Tanzlaune (Robrecht). Musik-Crown (Kessler). Song Potpourri (Plessow). Das Stelldichein (Schunsler). Lehár Potpourri (Robrecht). Intermezzo (Pacher-negg). Ländlerfantasien (Schitten-helm). Scampolo (Winkler).

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2 m.); 10 kW. Florence (No. 1), etc. See Sunday.
 Transmits at intervals from 7.30 a.m.
 7.0 p.m.—Programme from Germany.
 8.0—Time; News; Topical.
 8.30—Gheri-Salerno (Pfte. Duo).
 8.50—Orchestral Concert. Conductor: Gaudiosi. Overture, "Prometheus" (Beethoven). Dance Rhythm (Boerner). Intermezzo, "Suor Angelica" (Puccini). Polka (Sauer-Arnaldi). Three Pieces (Veretti). Minuet (Arnaldi). Rosso cupo (De Rosa). Dance, "La vida breve" (Falla).
 9.40—Rhythm and Dances—Orchestra. Conductor: Petralia. Music of Adlington. De Leva. Italo Lucia. Brogi. Fiaccone. Tosti. Algar. Warren and Montanaro.
 10.15-12.0 m.t.—Dance Music; at 11.0—News.

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW. Transmits at intervals from 6.30 a.m.
 6.30 p.m.—Songs by Mmes Suzanne Calata and Rose Guidoni.
 7.0—Radio Journal de France.
 7.45—See Paris (PTT).
 8.15—News in Italian.
 8.30—"The Coloured Races"—Sequence—with the "Deux Ha!" Players, presented by Valray.

9.30—Concert.

10.30—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW. Bergen (Askoi), etc. See Sunday.
 Transmits at intervals from 10.30 a.m.
 5.3 p.m.—Variety Concert; Talk.
 6.5—Helsinki Male Voice Choir.
 6.30—News; Economics.
 7.35—Orchestra. Conductor: Kramm. Overture, "The Daughter of the Regiment" (Donizetti). Potpourri, Round the World (Yoshitomo). Grass-hopper's Dance (Bucalosi). Twilight (Backer-Gröndahl). Wedding of the Rose (Jessel).
 8.45—Talk.
 8.45—Orchestra. Conductor: Kramm. Olav Trygvason (Nord-raak-Halvorsen). Suite, A Day in the Mountains (Borch). Intermezzo à la gavotte (Andersen).
 9.10—Bjelt Bierke reads.
 9.25—Dahl (Songs).
 9.40—News; Topical Talk.
 10.15-11.0—Stavanger Radio Orchestra.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 5 kW. Transmits at intervals from 10.20 a.m.
 7.0 p.m.—André Lévy (Cello) and Perlemutter (Pfte.). Sonata (Ver-meulen). Cello: Prelude, Bourrée and Gigue (Bach).

TUESDAY (May 30)

7.30—Radio Journal; Records.
8.30—See Montpellier (PTT).
10.30-11.0—News; Records.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
6.0 p.m.—News; Exchange;
Record.
6.15—Religious Address.
6.25—Records; at 6.30—Colonial
Talk.
6.42—Racing; Serial.
7.0—News; Sports Notes.
7.10—Amusements; Records.
7.43—"Les beaux dimanches"
(Claude Abel), with Jean Patard,
etc.
8.0—Topical Review.
8.10—"Paris Gossip," with
Pauline Carton and Jean Nohain.
8.15—"Le Roi des Rouspéteurs,"
with Doumel.
8.20—The Song Kiosk.
9.7—"L'Académie d'Impérite,"
with Max Regnier and Company.
9.42—Old Records, with Germaine
Sablon.
10.0—News.
10.7—"La plus grande France"
(Decharme).
11.0—Hot Jazz.
11.30—News (French, Italian).

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
11.30 a.m.—Garde Républicaine
Band. Conductor: Dupont.
11.50—Concert.
12.30 p.m.—Garde Républicaine
Band (cont'd.); at 12.45—News;
Exchange.
1.30—Aviation.
1.40—Derveaux Orchestra; at 1.55
—Canadian Songs.
2.20—Sophie Cheiner (Pfte.).
2.30—Educational; Records.
3.5—Concert.
3.45—Germaine Huber (Songs).
3.55—Music Talk by Paul le Flem.
4.10—Science Talk.
4.20—Photography Lesson.
4.25—Light Orchestra.
5.20—Talk: Modern Man as seen
by Modern Woman.
5.27—Talk.
5.35—Children's Singing Lesson.
6.5—Simone Plantade (Songs).
6.15—Radio Journal.
6.30—See Nice-Côte d'Azur.
7.0—News; Records.
7.45—Mlle. Tant Mieux and M.
Tant Pis.
8.15—Industrial and Social Notes.
8.30—Old Time Successes with
Renée Camia, Marthe Ferrare,
Paule Sandra, Marie Bizet,
Ramella, Eric Roine, Charles
Camus, Carliato (Xylophone)
and Orchestra. Conductor: Cho-
billon. In the interval, Lucien
Lovano (Tenor).
10.30—News; Exchange.
10.45—Dance Records.

PARIS (Radio-Paris)

182 kc/s (1,643 m.); 80 kW.
6.30 a.m.—News; Gym; Records.
7.35-7.50—Spanish Lesson.
8.15—Ministry of Finance Talk.
8.30—News; Programmes; Records.
9.0—News.
9.10-9.40—Educational.
11.50—Markets; Exchange; Water
Level.
11.55—Jewish Talk.
12.15 p.m.—Renée Camia (Songs).
12.25—Industrial and Social Notes.
12.40—Exchange; Radio Journal.
1.5—Derveaux Orchestra.
1.40—Programmes; Industrial and
Social Notes.
2.0—Talk: "Three Medieval
Heretics."
2.15—Mona Pechenard (Songs).
2.30—Readings.
2.45—Humorous Press Review.
2.55—Markets; Exchange; Sports.
3.15—Jane Montagne (Songs).
3.30—Mlle. Alliaume ("Cello").
3.45—Art and Science Talks.
4.15—The Week's Anniversary.
4.25—Hahn Records.
4.35—Reading (Montarron).
4.45—Talk by Raoul Praxy;
Famous Actresses—Debureau.
5.0—Exchange.
5.5—Emile Seiler (Viola).
5.35—Records: Hungarian Rha-
pody (Liszt) by the Philadelphia
Symphony Orchestra. Conductor:
Stokowski.
5.45—Talk by Robert Kemp;
Literature in the Year 1839.
6.0—Talk; For Ex-Servicemen.
6.15—Maurice Maréchal ("Cello"),
and Doyen (Pfte.). Arioso
(Bach). Sonata in F (Brahms).
6.45—Talk: The 150th Anniver-
sary of the French Revolution—
The Revolution and the Workers.
7.0—Programmes; Racing.

7.5—Cantrelle Orchestra. Pastoral
Intermezzo. "La Farce du
cuvier" (Dupont). Si l'eau qui
court pouvait parler (Georges).
Libellule (Carabin). Le chaland
qui passe (Bixio). Ballet du petit
lapin (Gingold). Un bal d'oiseaux
(Lacombe). La forêt enchantée
(d'Indy). Dance of the Sylphs
(Berlioz). Ronde des lutins
(d'Ambrosio). Danse des nymphes
et des satyres (Schirmann). "Le
coucou (Daquin). Overture, "La
fête au village voisin" (Boiel-
dieu). Clair de lune (Debussy).
8.0—Radio Journal de France.
8.30—"Du matin à minuit,"
Play after Georg Kaiser (Yvan
Goll) presented by Descaves.
10.15—Chamber Music. Hekking-
Merckel-Duvauchelle Trio and
Alice Raveau (Songs). Trio
(Lœillet). Songs (Saint-Saëns).
Trio (Saint-Saëns); at 10.45—
Time; News.
11.30—To-morrow's Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.20 p.m.—String Quartet in B
flat (Beethoven) by the Ondříček
Quartet.
5.45—Talk.
6.0—Markets; Records.
6.15—For Workers.
6.25—Catholic Action.
6.30—Balsánek Salon Orchestra.
7.0—Time; News.
7.15—Light Music from Brno.
8.0—"Litomyšl," Word Pictures
from Brno.
9.0—Time; News.
9.10—Orchestra. Overture in D
(Smetana). Symphony in D
minor (Dvořák).
10.0-11.0—News; Records.

RADIO - EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
1.30 p.m.—Records.
2.30-3.0—For Schools.
5.30—Records.
6.0—Paul Duffy Ceilidhe Band and
Sean Curteis (Tenor).
6.45—News.
7.0—Philip Dore (Pfte.) and Nancie
Lord (Violin).
7.30—Bachtra na Bachna—Seamus
O'Duinn.
7.45—The Warblers Concert Party,
presented by Paddy Fox.
8.15—Irish Radio Orchestra, Con-
ductor: Capt. J. M. Doyle.
9.20—Nuacht an Lae—Gaelic News.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-LYONS

1,393 kc/s (215.4 m.); 25 kW.
Transmits at intervals from 12.0 noon.
6.45 p.m.—Excerpts, "Le mariage
de Strauskauff" (Hardhouin).
7.0—Topical Talk.
7.10—Organ. Donauwellen (Ivanov-
vici). Le Chaland qui passe
(Bixio).
7.20—Amusement Guide.
7.25—Talk.
7.35—Songs.
8.0—Journal Parlé.
8.5—Light Music.
8.20—Orchestra. Rêve de zigane
(Delille). Sérénade au printemps
(Gaudon).
8.30—Light Music.
8.50—Music-Hall.
9.30—Orchestra from the Café
Morel, Lyons.
10.5—News.
10.5-11.30—Variety Concert.

RADIO - MEDITERRANÉE

1,321 kc/s (227.1 m.); 27 kW.
Transmits at intervals from 12.15 p.m.
7.0 p.m.—For Farmers.
7.15—Elyane Celis and Jean Sablon.
7.25—Amusements; Motoring.
7.45—Colonial Programme.
8.10—News; Exchange; Music.
8.30—Talk; Light Music.
10.0—News; Dance Music.

RADIO - NORMANDIE

1,095 kc/s (274 m.); 20 kW.
6.30 a.m.—Band; Press Review.
7.0—Radio Reveille; Weather; at
7.15—Time.
7.30—Time; Wake up and Sing.
7.45—Dancing Moods.
8.0—Time; Songs to make you
Sing, with Charlie Kunz and the
Mills Brothers.
8.15—Time; Light Fare, with Mrs.
Able.
8.30—French News Bulletin.
8.40—Your Message from the Stars.
8.45—The Open Road.
9.0—Time; A Japanese Fantasy.

9.15—Happy Harmony.
9.30—Melodies from the Air.
9.45—Waltz Time with Tom Shep-
pard.
10.0—Time; Musical Pairs.
10.15—Ed and Don, the Singing
Cowboys.
10.30—Radio Favourites.
10.45—Time; Benjie McNabb pre-
sents Radio-Normandie Concert
Hall—D'Erlanger.
11.0—Something for Everybody.
11.30—Chansonnettes.
12.0 noon—Concert; at 12.30-12.50
p.m.—News.
2.0—Ed and Don, Singing Cow-
boys.
2.15—Salvation Army Band.
2.30—Listen after Lunch.
2.45—Young Widow Jones.
3.0—Time; Backstage Wife.
3.15—"Stella Dallas".
3.30—Crime Reporter: "Murder
in Mayfair".
3.45—Musical Consequences.
4.0—Time; Favourite Melodies.
4.15—The Gospel Singer.
4.30—Sid Millward and his Nitwits.
4.45—Marmaduke Brown and Ma-
tilda.
5.0—Time; Songs we know them
by.
5.15—For Boys and Girls.
5.30—The Musical Mirror.
5.45—Going Greyhound Racing?
6.0—Children's Corner.
6.50—Talk; News; Racing.
7.0—Film Excerpts.
7.30—Mercedes Barthus and Partner.
8.0—French News Bulletin.
8.20—Light Music.
8.40—Excerpts, "The Black Tulip"
(Richepin).
8.55—Talk: "The Family."
9.0—Normandy—Fantasy, with
"Les Cloches de Corneville"
(Planquette, arr. Bugeia) for the
Coming Inauguration of Louvetot
Broadcasting Station, June 4.
11.0—Café Concert.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Wednesday)—Time;
Dance Music.

RENNES - BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Announcements; Re-
cords.
7.15—Medical Talk.
7.30—Radio Journal de France.
8.15—See Strasbourg.
9.30—Variety Programme.
10.30-11.0—News; Records.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8
m.); 120 kW. Bari (No. 1), etc.
See Sunday.
Transmits at intervals from 7.30 a.m.
5.0 p.m.—News.
5.15-5.50—Dance Music.
7.1—News in French.
7.18—News in English.
7.40—English Lesson.
8.0—News; Talk; Music.
9.0—"La dattilografa"—Musical
Comedy (Setti).
11.0—News.
11.15—Dance Music.
12.0 m't.—News in French.
12.16 a.m. (Wednesday)—News in
English.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429
kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
7.0 p.m.—Comrade, where are
you?
7.45—Topical Mirror; News.
8.15—Brahms and Wolf—Orches-
tra, Choir, Tenor, Pfte.
9.15—Talk: "Peter Strasser".
9.30—Music Lesson—Percussion.
10.0—Time; News; Music.
10.35—See Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—
Serenade—Chamber Music and
Records.

SOTTENS

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s
(748 m.).
12.29 p.m.—Time; News; Records.
1.5—Garde Républicaine Band
from Paris (PTT).
1.30-1.45—Records.
5.0—Kinderszenen (Schumann).
5.15—The dantesque—Records.
6.0—For Youth; Music.
6.40—Topical Talk; Records.
7.0—"Humeur du temps"; Music.
7.20—Theatre Notes; Records.
7.40—What history teaches us.
7.50—News; Chimes.
8.0—Radio Lausanne Calendar.
8.5—Romansch Review.
8.30—"A Family Affair"—Detective
Masques Players.
10.10-10.30—Visit to the Cities of
French Switzerland.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.20 a.m.
5.20 p.m.—Parliamentary Review;
Records; Talk.
7.0—News.
7.30 (from Göteborg) — Liseberg
Orchestra. Conductor: Mayr-
hauser.
8.15—Report.
8.45—Nils Söderman's Quartet.
9.0—Talk from Uppsala.
9.30—Göteborg Radio Orchestra.
Conductor: Max Rudolf. Over-
ture, "Djamilah" (Bizet). Sum-
mer Pastorale (Honegger). Dances
from Galanta (Kodály).
10.0—News; Weather.
10.15-11.0—Light Music by the
Göteborg Radio Orchestra. Con-
ductor: Max Rudolf. Overture,
"Alessandro Stradella" (Flotow).
Dance, "Tsar and Carpenter"
(Lortzing). Two Intermezzi,
"Carmen" (Bizet). French Mili-
tary March (Saint-Saëns). Slav
Dance (Dvořák). Pesther-Walzer
(Lanner). Overture, "A Night
in Venice" (Strauss).

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—News (French, German).
7.30—Operetta Records.
8.0—News (French, German).
8.15—"The Trial of Joan of Arc"
—Play based on Historical Docu-
ments (Arnaut and Pitoëff) with
Ludmila Pitoëff.
9.30—Records of Zarah Leander.
9.45—"Le bonheur par la chan-
son"—Song Sequence, presented
by Netter, with Fred and Géo
and Company.
10.30—News (French, German).
10.45-11.0—Music.

STUTTGART

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
6.0 p.m.—Dance Records.
6.45—Topical Talk.
7.0—Musical Paradise — Extracts
from Letters, with Anecdotes and
Tales of Great German Com-
posers—Violin, Cello, Pfte., etc.
7.45—Topical Report.
8.0—News; Report on the Reich
Horticultural Show.
8.15—Choir and Station Symphony
Orchestra. Conductor: Zimmer-
mann. Chaconne, "Amadis"
(Lully). Chorus, "Les deux
aïeux" (Grétry). Excerpts, "Il
Re pastore" (Graun). Eine
Abendmusik (Haydn). Der Sturm
(Haydn). Ved Solnedgang (Gade).
9.0—"Der Schwarzkünstler"—
Comedy (Gött).
10.0—News; Political Press.
10.35—Light Music — Orchestra,
Band, Folk-Musicians, Folk-
Singers.
12.0 m't.-2.0 a.m. (Wednesday) —
See Saarbrücken.

TOULOUSE (Radio-
Toulouse)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.55 p.m.—News; Sports Notes.
7.5—Dance Music.
7.15—Light Orchestra; Talk.
7.45—Vocal Quintet.
8.0—News; Sketches; Marches.
8.45—Leo Raiter (Songs and Accor-
dion) and his Partners, with Pier-
rette Thourat.
9.20—Talks.
10.0—News; Request Music.
10.45—Light Music and Sailors'
Songs.
11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2
m.); 30 kW. Milan (No. 1), etc.
See Sunday.
Transmits at intervals from 7.30 a.m.
5.0 p.m.—News.
5.15-5.50—Giarda (Organ).
6.40-7.0 (Rome (No. 2) only)—Talk
in English.
7.25—Records.
7.40—English Lesson.
8.0—News; Topical; Records.
8.36 (Milan (No. 1) and Rome
(No. 2) only)—News in German.
9.0—"Sicilian Vespers"—Opera
(Verdi). Conductor: Previtali.
Chorus Master: Costantini. Cast:
Gaetano Viviani, Paolo Siliveri,
Gregorio Pasetti, Tancredi Pasero,
Giuseppina Sani, Enzo Aita,
Mario Binci and Bruno Sbal-
chiero. In the intervals, Talks,
News.

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
2.10-3.0 p.m.—Orchestra. Conduc-
tor: Sandauer. Kinderwünsche,
Kinderträume (Rixner). In a
Persian Market (Ketelbey).
Spanish Overture, Don Diego
(Winkler). Tanz der Holzpuppen
(Braun). Rhapsody (Sandauer).
March, Via triumphalis (Blume).
Russian Dance, "Tajana"
(Lehar). Grotesque (Kormann).
3.30—Pfte. Records.
3.45—Talk: "The Garden in
Summer."
4.0—Orchestra. Conductor: Pflüger.
Homage March, "Sigurd Jorsal-
far" (Grieg). Suite, "Carmen"
(Bizet). Excerpts, "Nutcracker
Ballet" (Tchaikovsky). Zigeuner-
weisen (Sarasate). Three Orches-
tral Pieces (Jirasek). Overture,
"Der Wildschütz" (Lortzing).
5.0—Book Talk.
5.10—Orchestra. Conductor: Pflü-
ger. Overture, "Der Opernball"
(Heuberg). Suite, Aus der
Kinderzeit (Kosaneck). Dances
(Helmberger). Selection,
"Gipsy Love" (Lehar). Flor-
entine March (Fück).
6.0—Talk: "Handwerk."
6.20—Styrian Dialect Tales in
Verse (Effenberger), with Records.
6.45—"Africa"—Talk by a
Woman Explorer.
7.0—Talk: "Austria."
7.30—Topical Review.
7.50—News in Ukrainian.
8.0—News.
8.15—Haydn Commemoration —
Vienna Symphony Orchestra.
Guest Conductor: Weisbach.
Maria Reining (Soprano), Schnei-
derhan (Violin), Seidhofer (Harp-
sichord). Nocturne in C. Two
Concert Arias. Concerto for
Violin, Harpsichord and Orches-
tra. Symphony in E flat—the
Drum-Roll.
10.0—News; Political Press.
10.35-11.0—Light and Dance Music
—Orchestra. Conductor: San-
dauer. Waltz, Perlen der Liebe
(Strauss). Polka, Frauenherz
(Strauss). Overture, "The
Mikado" (Sullivan). Dance,
"Der Rastelbinder" (Lehar).
Mexicana (Plessow). Ich weiss ein
Mädel in Znam (Lang). Troika-
fahrt (Winkler). Tango, Monte
Oliva (Carmena). Ich habe einen
guten Freund (Richardt). Anne-
liese (Jungherr). Bel ami (Macke-
ben). Ein Tangotraum in einer
Sommernacht (Riedinger). Seville
(Buder). Polonaise (Wetzel). Wer-
mut (Sandauer). Festlicher Tango
(Stanke). Schattenspiele (Schütz).
Lolita (Schelling). O prima
Donna (Miller).
WARSAW
224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.
Transmits at intervals from 6.30 a.m.
3.30 p.m.—Poznań Orchestra, Con-
ductor: Raabe.
4.0—News; Economics.
4.20—Financial Review.
4.30 (from Poznań)—Sonata in D
flat (Szeluta) by the Composer
(Pfte.).
5.0—Talk: "Women and National
Defense."
5.15—Plat (Songs). Ich grolle nicht
(Schumann). Von eurg'er Liebe
(Brahms). Traurigkeit (Wolf).
Greek Song (Tchaikovsky). Song
(Lipski).
5.30—Through Poland in Song (arr.
Rutkowski).
6.0—Records of the BBC Military
Band. Conductor: Walton
O'Donnell.
6.30—For Workers.
7.0—Dance Music—Orchestra, Con-
ductor: Dzięgielewski, and Vocal
Quartet.
8.0—For Country People.
8.15—Selection, "The Betrothal by
Lanternlight" (Offenbach). Con-
ductor: Dzięgielewski.
8.35—News; Sports; To-morrow's
Programmes.
9.0—Moniuszko Programme (arr.
Jachimecki). Orchestra, Conduc-
tor: Fitelberg.
10.0—Talk.
10.15 (from Torun). French Violin
Music by W. Niemczyk, with
D. Niemczyk (Pfte.), from Gdya.
Pieces (Debussy): (a)
Minstrels, (b) En bateau, (c) La
file aux cheveux de lin, (d)
Aria. L'Enfant prodige, Havan-
aise (Saint-Saëns). Kaddisch
(Ravel). Habanera (Ravel).
10.45—Records: "L'Apprenti sor-
cier" (Dukas), by the New York
Philharmonic, Conductor: Tosca-
nini.
10.55—Press Review; News.
11.5-11.15—News (German).

National

For Time Signals, see Monday.

10.15 a.m. (D)—Service.
 10.30 (D)—Weather Forecast.
 10.45—"At Home To-day."
 11.5—Iris Greep (Pfte.).
 11.30—Records.
 12.0—Alfred Van Dam's State Orchestra.
 12.55 p.m.—Frederick Adcock (Rhythmic Violin).
 1.5—The Two Coons.
 1.15—Reading from "The Pickwick Papers" (Dickens).
 1.35—Records.
 2.0—The Barrington Quartet.
 2.30—Tom Jenkins (Cinema Organ).
 3.0—Geiger's Orchestra.
 3.30—Dance records.
 4.0—Evensong from St. Paul's Cathedral.
 5.0—Records of music from the films.
 5.20—Ray Ventura and his Colleagues.
 6.0—The First News.
 6.20—"Science Review."
 6.40—BBC Orchestra (Section D). Conductor: Clarence Raybould.
 7.15—The Amington Band.
 7.45—The World Goes By.
 8.15—Act 1, "La Traviata" (Verdi) from Covent Garden, with Maria Caniglia, Maria Huder, Booth Hitchen, Aristide Baracchi, Norman Walker, Adelio Zagonara, Beniamino Gigli, Gladys Palmer, Octave Dua; London Philharmonic Orchestra. Conductor: Vittorio Gui.
 8.45—Records.
 9.0—The Third News.
 9.30—Sandy Macpherson (BBC Theatre Organ).
 10.5—Act 3, "La Traviata."
 10.30—"The Citizen in Control." Cedric Belfrage.
 10.50—Act 4, "La Traviata."
 11.20—Al Durrant's Dance Orchestra.
 11.30—Records.
 11.50-12.0—News Summary.

London Regional

(342.1 m.)

10.15 a.m.—National.
 10.45—BBC Welsh Orchestra: Fisher Morgan (Baritone).
 11.30—Nelson Elms (Cinema Organ).
 12.0—The Open-Air Club.
 12.30 p.m.—"At The Black Dog." 1.0—Imperial Affairs.
 1.20—Light Music from Italy.
 2.0—BBC Midland Orchestra.
 2.45—Records: Parry Jones (Tenor).
 3.0—BBC Empire Orchestra: Elsie Suddaby (Soprano).
 4.0—"The Pedigree Pup," short story by T. Thompson.
 4.15—Records.
 4.30—The Cosmopolitan Four.
 5.0—The Children's Hour.
 6.0—Lance Dossor (Pfte.).
 6.25—"The Cabin in the Hills."
 7.0—The Second News.
 7.20—Bulletin for Farmers.
 7.30—The City of London: "At Lloyd's"—Alan Ivimey.
 7.45—"Accent on Rhythm."
 8.0—"Roundabout."
 9.10—Act 2, "La Traviata." (For cast, see National).
 9.50—Six-Day Bicycle Race.
 10.0—News in French.
 10.15—News and News Talks in German. 10.45—Fourth News.
 11.5—Al Durrant's Dance Orchestra.
 11.30-12.0—Benny Loban's Music Weavers.

Midland

(296.2 m.)

10.15 a.m.—Regional.
 5.0 p.m.—The Children's Hour.
 6.0—Frederick Kelly Quintet.
 6.25—Regional.
 7.20—Midland Announcements.
 7.30—"Sportsman's Diary."
 8.0—Regional. 9.0—Records.
 9.10-12.0—Regional.

Stagshaw

(267.4 m.)

10.15 a.m.—North.
 6.0 p.m.—Ballads.
 6.30-12.0—North.

North

(449.1 m.)

10.15 a.m.—Regional.
 5.0 p.m.—The Children's Hour.
 6.0—Helen Mitchell (Soprano); Ethelwyn Fearnley ("Cello"); Percy Bilsbury (Tenor).
 6.30—The Lyrians Dance Band.
 7.0—The Second News.
 7.20—For Northern Farmers.
 7.30—Elizabethan Madrigals.
 8.0-12.0—Regional.

West

(285.7 m.)

10.45 a.m.—National.
 6.0 p.m.—Regional.
 6.40—"Built to Last." Salisbury.
 7.0—News.
 7.20—Western Announcements.
 7.30—"The Lockier-Grosvenor Octet."
 8.0-11.5—Regional.

Wales

(373.1 m.)

10.15 a.m.—Welsh Service.
 10.30—Regional.
 5.0 p.m.—The Children's Hour.
 6.0—BBC Welsh Orchestra.
 6.40—Calend'r Cymro.
 7.0—The Second News.
 7.20—News in Welsh.
 7.30—North. 8.0—Regional.
 9.45—"Fitness in Wales." Captain J. Glynn Jones, O.B.E.; M.C.
 10.0—Claudia Lloyd (Pfte.).
 10.20—"The Gower Peninsula."
 10.45-12.0—Regional.

N. Ireland

(307.1 m.)

10.15 a.m.—Regional.
 5.0 p.m.—The Children's Hour.
 6.0—Regional.
 7.20—N. Ireland News.
 7.30—Irish Tales: "James wakes his Grandmother," by D. W. Thompson.
 7.45—Regional.
 10.0-12.0—Wales.

Scotland

(391.1 m.)

10.15 a.m.—National.
 10.45—Records. 11.5—Schools.
 11.30—Regional.
 2.0 p.m.—Herring Fishing Bulletin.
 2.5—Records. 2.30—Schools.
 2.50—Regional.
 5.0—The Children's Hour.
 6.0—BBC Scottish Orchestra: Symphony in G—The Surprise (Haydn).
 6.25—Regional.
 7.0—The Second News.
 7.20—Scottish Announcements.
 7.25—For Scottish Farmers.
 7.40—Scottish Dance Music.
 8.0—Regional.
 10.0—Scottish Sports News.
 10.5—Evening Worship.
 10.20—Wales.
 10.45-12.0—Regional.

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW.
 Transmits at intervals from 6.0 a.m.
 5.30 p.m.—Dance Variations (Höfner) by Erfurth (Pfte.).
 6.0—Overture and Waltz Records.
 7.15—"Letters between Famous Germans and their Mothers"—Sequence.
 7.45—Evening Echoes; News.
 8.15—Strub (Violin). Hidegheti (Pfte.). Sonata (Mozart). Sonata in E minor (Pfitzner).
 9.0—Operetta and Film Music. Conductor: Willy Steiner. Excerpts, "In's blaue Leben" (Grothe). "Die ungarische Hochzeit" (Dostal). "Männern müssen sein" (Jary). "Segel unter blauem Himmel" (Rust). "Nanu, sie kennen Korff hoch nicht" (Jary). "Die Frauen von Shanghai" (Leenen). "Frau am Steuer" (Böhmet). "Auf grosser Fahrt" (Raymond). "Wasser für Canitoga" (Kreuder). "Ball der Nationen" (Raymond).
 10.0—News; Sports.
 10.30-12.0 m.t.—See Breslau.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW.
 Relayed by Basle and Berne. 1,375 kc/s (218.2 m.).
 6.20 a.m.—Gym; Ballet Records.
 6.50-7.10—News; Mendelssohn Records.
 10.20-10.50—Kinderszenen (Schumann) by Keller (Pfte.).
 12.0 noon—Zürich Chimes.
 12.2 p.m.—Zürich Radio Orchestra; at 12.27-12.40—Exchange; News.
 1.20-1.45—Records.
 4.30—For Women.
 5.0—Light Classical Music.
 6.0—For Children.
 6.5—"Animal Life"—Humorous Cantata (Kunz).
 6.30—Old Music for Violin and Harpsichord.
 7.0—Dialect Talk: Swiss History.
 7.30—News.
 7.40—Italian Lesson.
 8.10—Hallwilersee Programme.
 9.30—Folk Songs of Scotland and the Hebrides.
 10.30—To-morrow's Programmes.

BORDEAUX-LAFAYETTE

1,077 kc/s (278.6 m.); 60 kW.
 Transmits at intervals from 6.30 a.m.
 8.30 p.m.—Montesquieu Programme, with André Masson and François Aussaresses, Part I: Excerpts from "Négoce, Amour et philosophie à Bordeaux." Part II: "Au temps de Montesquieu"—Play (Byland).
 10.30—News.

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW.
 Presov, etc. See Sunday.
 Transmits at intervals from 6.30 a.m.
 5.50 p.m.—News in Hungarian.
 6.0—German Programme.
 6.10—Military Notes; News.
 7.30—Slovak Folk-Songs by the Phik Cigány Band.
 7.55—Sketch (Lendvay).
 8.10—Variety Concert.
 9.0—Talk.
 9.25—Violin Sonata in G minor (Trnavsky).
 9.45—News; Dance Records.
 10.30—News in English; Records.

BRESLAU

950 kc/s (315.8 m.); 100 kW.
 Gleiwitz, etc. See Sunday.
 Transmits at intervals from 5.0 a.m.
 6.25 p.m.—Pfte. Trio in C minor (Beethoven) by the Hattwig Trio.
 7.0—"Famous Dancers"—Orchestra.
 8.0—News.
 8.15—Variety—Orchestra, Dance Band, Beate Roos-Reuter (Soprano), Helgar (Tenor), Bruno Fritz (Humorist).
 10.0—News; Topical Events.
 10.30-12.0 m.t.—Variety—Orchestra, Dance Band, etc.

BRNO

922 kc/s (325.4 m.); 32 kW.
 Transmits at intervals from 6.35 a.m.
 8.0 p.m.—German Transmission: Symphony Concert—Station Orchestra. Conductor: Janowsky. Frotzler (Pfte.). Introductory Talk: Overture, "Manfred" (Schumann). Pfte. and Orchestra: Konzertstück (Weber). Elegy (Kornauth). Second Symphony in D (Brahms).
 9.20—Hoschek Dance Band.
 10.0-11.0—News (Czech, German); Records.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW.
 6.30-9.5 a.m.—Records; Gym; News.
 12.0 noon—Records; at 12.30 p.m.—Shipping; at 1.0-1.10—News.
 2.0-2.3—Art Notes.
 4.55—News.
 5.0—INR Jazz Band and Reading.
 6.0—Talk.
 6.15—Jeanne Thys (Songs).
 6.30—Reading (Selma Lagerlöf).
 6.45—Liège Composers' Music by Mme. Jaspar (Pfte.). Suite française (Staenberg). Tarentella (Hillier).
 7.0—Reviews: (a) Sports, (b) The Exhibition, (c) Economics.
 7.15—Records.
 7.30—News.
 8.15—Ravel Records.
 8.15—"Le Glorieux"—Play (Gresset).
 10.0—News.
 10.10-11.0—INR Jazz Band.

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW.
 Programme in Flemish.
 6.30-9.0 a.m.—Records; Gym; News.
 12.0 noon—Acts I and III, "La Traviata" (Verdi) Scala Milan (Records); at 12.30 p.m.—Weather.
 1.0—News; Records.
 2.0-3.15—For Schools.
 4.55—News.
 5.0—Belgian Pfte. Quartet. Sonata à quatre (Pergolesi-Bautista). Quartet in C minor (Fauré).
 5.45—For Children.
 6.30—Records; Talk.
 7.0—Records.
 7.30—For Ex-Servicemen.
 8.0—Cabaret Records.
 8.45—Flemish Authors: Verbruggen.
 9.0—INR Symphony Orchestra. Conductor: Franz André. Euskal Herria (Bordes). Fugue (Berners). Bacchus et Ariane (Roussel). Lyric Symphony (Nabokoff).
 10.0—News.
 10.10—Coros (Villa-Lobos), by the INR Symphony Orchestra, Conductor: Franz André.
 10.30-11.0—Records. Chopin Potpourri (arr. Willoughby). The Sacred Hour (Ketelbey). Gipsy Fantasia (Bihari). Orgelgelflüster (Schönberger). Congo Lullaby (Spoliansky). Cradle Song

May 31

WEDNESDAY

(Mozart). Pale Moon (Logan-Kreisler). Sleep, my little one (Riesfeld).

BUCHAREST

823 kc/s (364.5 m.); 12 kW.
 Relayed by Radio-Romania, 160 kc/s (1,875 m.).
 Transmits at intervals from 6.0 a.m.
 6.17 p.m.—Records: Dances.
 7.0—Talk.
 7.15—Folk-Songs.
 8.0—"An Italian Trip"—Records.
 9.0—News; Sports Notes.
 9.15—"Naidin" Accordion Band.
 9.40—Musical Saw.
 9.55—News.
 10.10—Restaurant Orchestra.
 10.45—News (French, German, Italian).

BUDAPEST

546 kc/s (549.5 m.); 120 kW.
 Transmits at intervals from 6.45 a.m.
 12.10 p.m.—Eugen Stepat Balalaika Band; at 12.40—News.
 1.30—Records.
 2.30—News.
 4.15—For Schools.
 4.45—News.
 5.0—News (Slovak, Ruthenian).
 5.10—Hungarian Songs on Two Pites.
 5.45—Talk: "Rozsnyó."
 6.15—Band.
 7.15—News.
 7.30—Kálmán Harsányi Commemoration.
 9.40—News.
 10.0—Balázs Cigány Band.
 10.40—News (German, Italian).
 10.50—News (English, French).
 11.20—Dance Records.
 12.5 a.m. (Thursday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW.
 Transmits at intervals from 6.0 a.m.
 5.20 p.m.—Choir, Conductor: Adams; Hoersch (Tenor). Delseit (Pfte.). Songs (Haletzki). Schmetterling (Grieg). Hungarian Songs (Brahms). Aufschwing (Schumann). Feenreigen (Rammath). Songs (Berger).
 6.0—"Düsseldorf"—Songs and Legends.
 6.35—C.P.E. Bach Programme. Sonata for Flute and Harpsichord. Pieces for Two Flutes and Harpsichord. Arias, "Phillis und Thersis." Pieces for Two Flutes and Harpsichord.
 7.0—Political Press; Records.
 7.55—Topical Talk; News.
 8.15—News in English.
 8.30—Variety from Breslau.
 10.0—News.
 10.15—News in English.
 10.35—"May Night"—Livia Gesine Rizzo (Mezzo-Soprano). Grete Barth-Heukeshoven (Violin) and Haas (Pfte.).
 11.20-12.0 m.t.—Records.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
 Transmits at intervals from 6.0 a.m.
 4.0 p.m.—Dobrincht Orchestra; at 5.0-5.10—Topical Talk.
 6.0—Talk: "Agricultural Problems."
 6.15—Maria Mattheus (Songs), von Vultée (Pfte.). Songs (Othe-graven): (a) Stiller Dank, (b) Letzte Chrysanthemen, (c) Deine Hände, (d) Widerschein. Stimmungsbilder (R. Strauss). Songs (Straesser); (a) Wort am Abend, (b) Ruhelos. Songs (R. Strauss): (a) Ruhe, meine Seele, (b) Die Georgine.
 6.45—Records.
 7.0—Topical Talk.
 7.15—Folk-Music—Steinbock Band.
 8.0—Motto; News.
 8.15—Military Band.
 9.0—"Haydn"—Biographical Sequence (Litteck), with the Composer's Music.
 10.0—News; Sports.
 10.20—Sonata (Pezold) by Koch (Violin) and Priegnitz (Pfte.).
 10.45—Weather.
 11.0-12.0 m.t.—Music from Vienna.

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
 Cassel, etc. See Sunday.
 Transmits at intervals from 5.0 a.m.
 6.30 p.m.—German Chamber Music.
 7.0—Talk: German Planes.
 7.15—Topical Mirror; Records.
 8.0—Time; News.
 8.15—Orchestral Records.
 9.0—"Rothschild siegt bei Waterloo"—Play (Möller).
 10.0—Time; News; Sports.

10.15—Haydn Programme—Caster String Quartet, Grape (Pfte.). Sonata in E flat. Quartet in G. 11.0-12.0 m.t.—Music from Vienna.

HAMBURG

904 kc/s (331.9 m.); 100 kW.
 Bremen, etc. See Sunday.
 Transmits at intervals from 5.45 a.m.
 6.0 p.m.—Orchestra, Band; at 6.45—Weather; Shipping.
 7.55—Sports; News.
 8.15—News in English.
 8.30—Music, Dancing and Patter.
 10.0—News.
 10.20—News in English.
 10.35—Chamber Orchestra, Conductor: Krutige. Concerto grosso in A minor (Handel). Cello Concerto in A (Leo). Suite in C (Bach).
 11.30—Josef Strauss Records.
 12.0 m.t.—3.0 a.m. (Thursday)—Serenade—Orchestra, Soprano, Two Pftes., Folk-Songs, and Johann Strauss Music.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 7.40 p.m.; 120 kW from 7.40 p.m. and Jaarsveld, 722 kc/s (415.5 m.); 17 kW.
 NCRV Programme.
 7.40 a.m.—Bible Reading; Meditation; Records; Greetings.
 10.10—Service; Records.
 10.55—Mile Petro Meijer den Rooijen (Soprano), Elisabeth Everts (Soprano), and Records.
 11.40—Police Messages; Records.
 12.40 p.m.—Zingaresca Ensemble; Records.
 2.10—For Philatelists.
 2.40—Report from the Y.W.C.A. Congress.
 4.10—Records; Greetings.
 4.40—For Children; Records.
 6.7-6.35—Navigation Lesson.
 6.40—Police Messages; Church News.
 6.55—Literary Review; Talk.
 7.40—News; S O S Messages.
 7.55—Tollig (Organ), Prelude and Fugue in B minor (Bach). Pfte. Pieces arr. for Organ (Beethoven). Gebed des Heeren (de Vos). Elegy (Vieme). Three Chorals (arr. Tollig).
 8.40—Talk by M. de Boer.
 9.10—Dutch String Quintet, Versney (Horn). Dances (Purcell). Serenade in F (Haydn). Quintet in E flat (Mozart).
 9.40—News; Topical Review.
 10.10—Dutch String Quintet, Versney (Horn). Three Sonatas (Reiche). Minuet in B minor (Schubert).
 10.25—Gymnastics; Records.
 11.30-11.40—Bible Reading.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 15 kW until 7.40 p.m.; 65 kW from 7.40 p.m.
 7.40-9.40 a.m.—VARA Programme.
 7.40 Records; Weather.
 9.10—Cookery Talk.
 9.40—VPRO Service.
 10.0-10.40—VARA Programme for Night Workers; Talk, Records.
 10.40—RVU Talk.
 11.10 a.m.—6.10 p.m.—VARA Programme.
 11.10—Records.
 11.20—For the Unemployed.
 11.40—Records; Weather.
 12.10 p.m.—VARA Orchestra, Conductor: Holzer.
 12.55-1.25—Esmeralda Ensemble.
 1.40—For Women.
 2.55—For Children.
 5.10—VARA Orchestra, Conductor: De Groot; Liselotte Jacobi (Soprano).
 6.10-6.40—RVU Talk.
 6.45-7.10—VARA Programme.
 6.45—VARA Calendar; Greetings.
 6.50—Songs, Conductor: Tiggers.
 7.10—VPRO Programme: Talk and Religious Address.
 7.40 till Close—VARA Programme.
 7.40—S O S Messages; News; Notes.
 8.0—Ramblers Dance Band.
 8.40—"Danton"—Play (Bakker) by the VARA Dramatic Company.
 9.40—Press Review.
 9.50—Oloff (Violin), Wins (Pfte.). Poème (Chausson). La fontaine d'Aréthuse (Szymanowski). Perpetuum mobile (Novacek). Caprice (Paganini).
 10.20—Corry Bijster (Soprano); Jong (Organ).
 10.40—Esmeralda Ensemble.
 11.10-11.40—Records.

WEDNESDAY (May 31)

KALUNDBORG

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s (255.1 m.).
Transmits at intervals from 7.0 a.m.
12.0 noon—Time; Wivex Orchestra.
2.0 p.m.—Reading.
2.20—Cinema Organ Records.
2.30—Rydahl's Ensemble. Overture, "Le Postillon de Longjumeau" (Adam). Chamber Sonata in E minor for Strings (Vivaldi). Gold and Silver (Lehar). Chanson antique (Thielemann). Vemodige Toner (Thielemann). Serenade (Moszkowski). Valse brillante (Rydahl). Minuet from the Rocco Suite (Dannings). Suite (Thisted). March (Ryming).
3.40—For Children.
4.0—Talk on Doctrine and Life from the Ecclesiastical Centre's Diocesan Meeting.
4.50—Announcements.
5.0—Talk: "Leaders of Old China."
5.25—Weather; Exchange; Markets.
5.50—Records.
6.15—Talk: "Camping Holidays."
6.35—French Lesson.
7.0—News.
7.30—For Farmers.
8.0—Cultural Pictures of Europe—IV: "Molière's France"—Play (Oluf Bang).
9.30—Records: Scherzo in B flat minor (Chopin) by Rubinstein (Pfte.).
9.40—Topical Talk.
10.0—News.
10.20—Symphony Concert—Radio Symphony Orchestra. Conductor: Tuxen. Sixth Symphony (Schubert). La valse (Ravel).
11.10 p.m.—12.30 a.m. (Thursday)—Preil's Dance Band, Sørensen (Refrains); at 12.0 m.t.—Chimes.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
6.0 p.m.—Battle of Jutland Anniversary Programme.
6.30—Report: Insterburg Sports.
6.50—Mediterranean Music.
7.40—See Munich.
8.0—News.
8.15—See Leipzig.
10.0-11.0—News; Records.

LEIPZIG

785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 5.45 a.m.
3.30 p.m.—Lungershausen String Quartet. Serenade in C (Haydn). Allegretto in D minor (Mozart). Minuet in D (Mozart). Allegro (Beethoven). Cavatina in G (Beethoven). Scherzo in B flat (Beethoven).
4.0—See Deutschlandsender; at 5.0-5.10—Weather; Economics; Markets.
6.0—Talk: Naval Armaments.
6.20—Virtuoso Records; Reading.
7.0—For Hitler Youth.
7.45—Comrade, where are you?
8.0—News.
8.15—"L'incontro Improvviso"—Opera (Haydn), with Leipzig Symphony Orchestra. Conductor: Keilberth. Cast: Walter Carnuth, Lea Piltti, etc.
10.0—News; Sports.
10.30-12.0 m.t.—See Vienna.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
5.30 p.m.—News in English.
5.45-7.0—See Paris (Eiffel Tower).
7.0—Records; For Gardeners.
7.20—Talk: "The Social Progress Exhibition at Lille and Roubaix."
7.30—Radio Journal of France.
8.15—Yvonne Dally (Songs).
8.30—Orchestra, Michel Dens and Ginette Lefebvre (Songs). Overture, "Rosamunde" (Schubert). Ballet, "Le Cid" (Massenet). Waltz, Nutcracker Suite (Tchaikovsky). Songs. Habanera (Gaujac). Prayer and Temple Dance, "Sigurd Jorsalfar" (Grieg). Suite, "Esclarmonde" (Massenet). Three Songs. Improvviso (Soret). Megalomania (Waltham). Romanian Dances (Alfano). Overture, "The Siege of Corinth" (Rossini).
10.30—News; Weather; Exchange.

LISBON

629 kc/s (476.9 m.); 20 kW.
Transmits at intervals from 1.0 p.m.
8.0 p.m.—Talk.
8.30—News; For Farmers.
9.0—Station Sextet; at 9.30—Topical Talk.
10.0—Concert.
11.30—News; Request Music.
12.30-1.0 a.m. (Thursday)—Weather; Dance Music.

LYONS (PTT)

648 kc/s (463 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio Journal; Weather.
7.45—Burgundian Programme.
8.5—Programme in Serbo-Croat.
8.15—Talk.
8.30—To be announced.
10.30—News; Weather.
10.45—Dance Records.
11.15—News (German).

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.29 a.m.
7.50 p.m.—News.
8.0—Orchestra. Conductor: Nussio. Excerpts, "Sicilian Vespers" (Verdi). In terra d'Umbria (Ricci). Finale from "Roma" (Bizet). Venetian Suite (Wolf-Ferrari). Piedmontese Dances (Sinigaglia).
9.0—"Incontro a vicobasso"—One-Act Play (Roedel).
9.25-10.25—Choir. Conductor: Löhner. Sulzberg (Organ). Organ Prelude and Fugue in E minor (Bach). Motet, Virga Jesse (Bruckner). O Gott, du frommer Gott (Brahms). Motet, Locust iste (Bruckner). O wie selig seid ihr doch, ihr Frommen (Brahms). Tota pulchra (Bruckner). Schmücke dich, o liebe Seele (Brahms). Ave Maria (Bruckner). Os justi (Bruckner). O Welt, ich muss lassen (Brahms). Ecce sacerdos (Bruckner). Organ Fantasia in G (Bach).

MOSCOW

172 kc/s (1,744 m.); 500 kW.
Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW.
See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 6.0 a.m.
4.0 p.m.—Bulgarian Folk Songs by Tanja Natschewa (Soprano).
4.20—Pastor (Violin) and Strom (Pfte.). Gothland Dance (Aulin). Regrets (Grechaninov). Mazurka and Cavatina (Aulin). Hungarian Dance (Brahms).
4.40—Talk: Portugal.
5.0—Time; Weather; Markets.
5.10—Orchestra, Wind Band.
6.45—Nature Study Talk.
7.0—Records: Light Music.
7.40—Monthly Political Review.
8.0—Time; News.
8.15—To be announced.
10.0—Time; News; Sports.
10.20—Song Records.
11.0-12.0 m.t.—Grand Sonata in D minor (Furtwängler) by Schiering (Violin) and Zilcher (Pfte.).

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
8.0 p.m.—News; Topical.
8.30—Records.
9.0—"Andrea Chénier" (Giordano) from the Teatro della Moda. Turin. Conductor: Berrettoni. Chorus Master: Ruffo. Cast: Galliano Masini, Juanita Toso, Antenor Reali, Giuseppe Nessi and Italo Tafo. In the intervals, News, Talks.

NICE-COTE D'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio Journal de France.
7.45—Records.
8.15—News in Italian.
8.30—See Strasbourg.
10.30—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Bergen (Askoi), etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.3 p.m.—Thakle (Oboe).
5.20—For Boys.
5.45—Marion Bockelie (Pfte.).

Sonatas in C and F (Searlatti). Pastorale (Mozart). La danse de Puck (Debussy). Excerpts from the Suite, Dunbrandsdalen (Johansen).

6.5—English Lesson.
6.30—News; For Farmers.
7.25—Choir. Conductor: Beck. Sandvold (Organ).
8.0—Talk.
8.35—Spanish, Dutch, American, Romanian and Norwegian Folk Songs and Dances by the Station Orchestra. Conductor: Kramm.
9.40—News; Topical Talk.
10.15-11.0—Dance Music.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 5 kW.
Transmits at intervals from 10.20 a.m.
4.35 p.m.—"Sans le Troisième"—Play (Becovitch, trans. Dekova).
5.30—Records.
5.45—Orchestra, Conductor: Giardino.
6.15—Mme de Ferrer (Hahn and Offenbach Songs).
6.30—Educational.
7.0—Alice Raveau (Songs), Pascal (Violin). Nocturne (Franck). Romance (Tours). Serenade (Drda). Songs (Barlow, Duparc). Chant d'automne (Tchaikovsky). Pantoum (Pascal).
7.30—Radio Journal de France.
8.15—Music from Limoges (PTT).
8.30—"Ce Monsieur qui passe"—Three-Act Play (Marianne Monestier), presented by Paul Castan, with Berthe d'Yd, Simone Bonelli, Annie Hemery, Jean d'Yd, Rouyer, Prelier.
10.30-11.0—News; Records.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
6.0 p.m.—News; Exchange.
6.10—Records: Two Etudes (Chopin) by Horowitz (Pfte.).
6.15—Jewish Programme.
6.25—Records: L'Arlésienne (Bizet).
6.34—Film Talk; Racing; Serial.
7.0—News; Sports; Amusements.
7.13—Records of Maurice Chevalier.
7.40—"Monsieur Durand"—Sketch.
7.45—Music without Words.
8.0—Topical Review; Talk.
8.15—"Paris Gossip."
8.20—"Hôtel des Artistes" (Arnaud-Beauvais) with Charpini and Brancato.
8.35—"Les Incolables." President Claude Dauphin.
9.10—"En Correctionnelle" (Diamant-Berger).
10.0—News.
10.10—A quoi rêvez-vous? (Diamant-Berger).
10.25—"Stars of To-morrow" (Claude Abel).
11.0—From the Sheherazade Cabaret.
11.30—News (French, Italian).

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
12.30 p.m.—English Songs by Aubrey Pankey. When I am laid in earth (Purcell). I attempt from love's sickness to fly (Purcell). Drink to me only with thine eyes (Johnson). Where'er you walk (Handel). Love in thy youth (Howard).
12.45—News; Exchange; Records.
1.15—Lucienne Radisse (Cello).
1.30—Tourist Talk.
1.55—Orchestral Concert.
2.20—Records.
2.35—Concert for the Blind with Gaston Litaize, Anita and Juan del Real, etc.
3.15—Economics; Social Notes; Educational; Records.
4.5—Programme for the Blind (cont'd). "La Poupée"—Play (Bernanose) with Yvonne Kerva, Suzy Ledrel, MM. Lesieur and Meral.
4.25—Concert.
5.5—Literary Review.
5.20—Talk: Folk Festivals.
5.27—Talk: Cinema Trades—The Dresser.
5.35—Georges Dandelot Concert, presented by René Duménil. Germaine Cernay (Songs). Perle-mus (Pfte.). Le Roy (Flute). Sonata for Flute and Pfte. Chansons de Bilitis—The Composer at the Pfte. (a) Berceuse, (b) Pluie au matin, (c) Les contes. Two Waltzes for Two Pftes.
6.5—Denise Bertrand (Violin).
6.15—News.
6.30—Giardino Orchestra, Ballet Music from "Faust" (Gounod) and "Coppélia" (Delibes).
7.0—Radio Journal; Records.
8.15—Talk for Workers.
8.30—To be announced.

10.30—News; Exchange.
10.45—U.S.A. Bulletin.
11.0—See Paris (Radio-Paris).

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.30 a.m.—News; Gym; Records.
7.35-7.50—German Lesson.
8.15—For Ex-Servicemen.
8.30—News; Science Talk.
8.50—Talk: The French Country-side.
9.0-9.40—News; Education.
11.0—Locatelli Orchestra.
11.50—Markets; Exchange; Water Level.
11.55—Economics; Social Notes.
12.10 p.m.—Lise Daniels (Songs).
12.25—For Young People.
12.40—Exchange.
12.45—Time; Radio Journal; Records.
2.0—For Women.
2.15—Béatrix Merry (Songs).
2.30—Talk: "Joseph Conrad."
2.45—Talk: Learned Societies.
2.55—Markets; Exchange.
3.10—Report by Divoire.
3.15—Mme Ruff Longaray (Pfte.).
3.30—Faniard (Songs).
3.45—Talk: "Victor Hugo."
4.0—Colonial Notes.
4.15—Literary Review.
4.30—Talk: "The French Cinema"; Reading.
4.45—Denise Soriano (Violin).
5.0—Exchange.
5.5—Giardino Orchestra.
5.45—Educational.
6.0—Economics; Social Notes.
6.15—Lydie Demirgian (Violin).
6.30—Lucienne Astruc (Songs).
6.40—Talk: Civilisation.
7.0—Programmes; Racing.
7.5—Song through the Ages—Recital by Germaine Martinelli, Commentary by M. Martinelli.
7.30—Asselin (Violin). Nocturne and Tarantella (Szymanowsky). Chant grec (Bozza).
7.45—Talk: Famous Figures of the Revolution—Mirabeau.
8.0—Radio Journal de France.
8.30—French Provinces—Gascony—Feature Programme with Music (arr. Pesquidoux).
10.0—Light Orchestral. Conductor: Albert Wolff. Germaine Corney and M. Guilhem (Songs). Ballet d'Ascanio (Saint-Saëns). Songs, "Mamzelle Nitouche" (Hervé). La fête chez Thérèse (Hahn). Impression d'Italie (Charpentier).
11.0—Selection, "Cendrillon" (Massenet), with Germaine Corney, Lovano, etc.
12.0 m.t.—To-morrow's Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
4.0 p.m.—FOC Orchestra.
5.0—For Farmers.
5.5—Mila Kohoutková (Soprano).
5.20—Suk Music by Gselhofer (Pfte.).
5.40—F. Smetana (Cello).
6.0-6.15—For Workers; Record.
6.30—Salon Orchestra; at 7.0—Time; News.
7.45—Report.
8.0—Orchestra. Schneiderová (Soprano) and Libal (Tenor).
8.45—Talk: Czech Spas.
9.0—Time; News.
9.10—"June Roses"—FOC Orchestra. Trnková (Soprano), Leiss (Tenor), Rujan (Baritone).
10.0-11.0—News; Records.

RADIO-EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
1.30 p.m.—Records.
2.30-3.0—For Schools.
5.30—Records: Song Hits from Current Films.
5.50—Poetry for Children—Frances Meredith.
6.5—The Tudor Singers.
6.35—Sean O'Brien (Saxophone).
6.45—News.
7.0—Irish Folk Music—Sean O'Muirighthe (Amhrain), William Whelan (Fiddle) and Michael Grogan (Accordion).
7.30—Trath na gCeisteanna—Question Time in Irish.
8.0—Maire Ni Scolaíde (Gaelic Songs).
8.15—Ghostly Experiences—John E. Hamerton.
8.35—Irish Radio Orchestra. Conductor: Capt. J. M. Doyle.
9.5—Aerial Essays (No. 5); Table Talk, by John Howley.
9.20—Nuacht an Lae—Gaelic News.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-LYONS

1,393 kc/s (215.4 m.); 25 kW.
Transmits at intervals from 12.0 noon.
6.45 p.m.—Programme by Young People.

7.0—Topical Talk.
7.10—Guitar Music. J'attendrai (Olivieri). Torna a Surriento (de Curtis). Le cœur joyeux (Bordin).
7.20—Amusement Guide.
7.30—Talk: Lyons.
7.40—Film Music.
8.0—News.
8.15—Review by Mlle Françoise.
8.30—Flowers in Opera and Operetta Music. Excerpts, "Au pays du soleil" (Scotti), "La Tulipe noire" (Richepin), "Wild Violets" (Stolz), "Carmen" (Bizet), "Deux sous de fleurs" (Benatzky), "The Land of Smiles" (Lehar) and "Ma Belle Marseillaise" (Sellers).
9.0—Talk.
9.20—Commette (Organ) from St. John's Cathedral. Suite (Clérambault). Arabesque (Vierne). Canzona (Bach). Toccata (Commette).
10.0—News.
10.5-11.30—Variety Concert.

RADIO-MEDITERRANÉE

1,321 kc/s (227.1 m.); 27 kW.
Transmits at intervals from 12.15 p.m.
7.0 p.m.—German Lesson.
7.15—For Cyclists.
7.25—Amusements; Light Music.
8.10—News; Exchange.
8.15—Operetta Music. Excerpts, "The Three Waltzes" (O. Straus), Song (Lehar). Excerpts, "Ciboulette" (Hahn).
8.30—Monologues and Dialogues.
8.45—Light Music.
10.0—News; Request Programme.

RADIO-NORMANDIE

1,095 kc/s (274 m.); 20 kW.
6.30 a.m.—Band; Press Review.
7.0—Radio Reveille.
7.15—Time; Sports; Weather.
7.30—Time; Favourite Melodies.
7.45—Popular Tunes.
8.0—Time; Harmony Isle.
8.15—Time; Listeners at the Mike.
8.30—French News Bulletin.
8.40—Your Message from the Stars.
8.45—Star Gazer.
9.0—Time; The Open Road.
9.15—Eddie Carroll Orchestra.
9.30—Melodies from the Air.
9.45—Theatre of the Air.
10.0—Time; We bring you a Love Song.
10.15—Broadcasting Theatre.
10.45—Time; Songs we know them by.
11.0—Something for Everybody.
11.30—Light Music.
12.0 noon—Concert; at 12.30-12.50 p.m.—News.
2.0—Miniature Matinée.
2.30—Home and Beauty.
2.45—Young Widow Jones.
3.0—Time; Backstage Wife.
3.15—"Stella Dallas."
3.30—Songs of Safety.
3.45—George Formby and Beryl.
4.0—Time; Mandoline Melodies.
4.15—Ed and Don, Singing Cowboys.
4.30—Tea-Time Music.
4.45—Marmaduke Brown and Matilda.
5.0—Time; Popular Pianists.
5.15—For Boys and Girls.
5.30—Listen to the Zoo. Compère: Wilfrid Thomas.
5.45—Gay Melodies.
6.0—Children's Corner.
6.50—Talk; News; Racing.
7.0—Religious Address.
7.15—Balalaikas and Mandolines.
7.30—Opera Music.
8.0—French News Bulletin.
8.15—Orchestra.
8.30—"The Foreign Legion," presented by André Cousin.
9.0—"La Fleur d'orange"—Three-Act Play (Biraubeau-Dolley) from the Municipal Theatre, Yvetot.
12.0 m.t.—Melody at Midnight.
12.30-1.0 a.m. (Thursday)—Time; Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 5.30 a.m.
5.30 p.m.—News in English.
5.45-7.0—See Paris (Eiffel Tower).
7.0—Announcements; Amusement Guide; Records.
7.15—Talk: Madame de Sévigny in Brittany.
7.30—Radio Journal; Records.
8.30—See Strasbourg.
10.30-11.0—News; Records.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
5.0 p.m.—News.
5.15—Livio Boni (Cello). Sonata in E minor (Vivaldi). Aria (Bach). Siciliana (Pergolesi). Poema (Gasco). Largo (Montari). Spanish

Serenade (Giazunov). Asturiana (Falla).
 5.55—For Housewives.
 6.5-6.15—Astronomy Talk.
 7.0—News in French.
 7.18—News in English.
 7.35—Records.
 8.0—News; Topical; Music.
 9.0—Symphony Concert from Berlin. Leipzig Symphony Orchestra. Conductor: Merten. First Symphony (Beethoven). Serenade in D (Brahms).
 10.0—Talk.
 10.10—Melody and Rhythm—Conductor: Seracini.
 11.0—News.
 11.15—Dance Music.
 12.0 m't.—News in French.
 12.16-12.30 a.m. (Thursday)—News in English.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
 Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).
 Transmits at intervals from 6.0 a.m.
 7.0 p.m.—Chamber Music.
 7.30—Topical Talk; News.
 8.15—Musical Surprises.
 10.0—Time; News; Frontier Notes.
 10.30—Songs and Pfte. Music (Robert Franz, Schumann).
 11.0—Music from Vienna.
 12.0 m't.-3.0 a.m. (Thursday)—See Hamburg.

SOTTENS

677 kc/s (443.1 m.); 100 kW.
 Relayed by Geneva, 401 kc/s (748 m.).
 12.29-1.45 p.m.—Time; News; Records.
 5.0—See Beromünster.
 6.0 till Close—From Geneva.
 6.0-7.15—For Children.
 7.15—Micro-Magazine.
 7.50—News; Chimes.
 8.0—May Events.
 8.15—“Le Chalet”—One-Act Opera (Adam), with the Suisse romande Orchestra, Conductor: Isidore Karr, Violette Andréossi, Carlo Bertossa, Guy Beckmans, etc.
 9.30—Suisse romande Orchestra, Conductor: Appia.
 10.0-11.30—Hot Jazz Records.

National

For Time Signals, see Monday.
 10.10 a.m. (D)—Service.
 10.30 (D)—Weather Forecast.
 10.45—“In Central Africa:” Patricia Byron.
 11.0—BBC Northern Orchestra: Don Hyden (Violin).
 12.0—Variety rehearsal.
 12.15 p.m.—Dance records.
 1.0—Percy Waterhouse (Clarinet and Saxophone).
 1.15—Records.
 2.20—BBC Singers (Women's Voices).
 2.50—Reading from “Pride and Prejudice,” by Jane Austen.
 3.15—Bournemouth Municipal Orchestra conducted by Richard Austin and Reginald Redman: Melsa (Violin).
 4.45—“Summer Salads:” Rena Bosanquet.
 5.0—Gershon Parkington Quintet.
 5.40—Walter Glynn (Tenor).
 6.0—The First News.
 6.20—Farming To-day—The Poultry Industry.
 6.35—“Comus,” a Masque altered from Milton; Music by Arne.
 7.45—The Arctic To-day.
 8.0—“Lucky Dip.”
 8.45—“Danger! Men at Work!”
 9.0—The Third News.
 9.30—The Kitcher String Quartet—Dohnányi.
 10.0—Mid-Week Service.
 10.20—Henry Hall's Music Makers.
 10.45—Billy Bissett and his Canadians.
 11.15—Sandy Macpherson (BBC Theatre Organ).
 11.30—Records.
 11.50-12.0—News Summary.

London Regional

(342.1 m.)
 19.15 a.m.—National.
 10.45—F. Lionel Johns and his Orchestra.
 11.30—Reginald Dixon (Cinema Organ).
 12.0—BBC Scottish Orchestra.
 12.55 p.m.—“Built to Last”—Salisbury.
 1.15—Wilfrid Parry Pfte. Quartet.
 2.0—Stagshaw Searchlight.
 2.20—Royal Military College, Sandhurst, Band.
 3.15—“Lucky Dip.”
 4.0—“Sportsman's Diary.”

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
 Motala, etc. See Sunday.
 Transmits at intervals from 7.20 a.m.
 5.30 p.m.—Reading; Records.
 7.0—News; Topical Talk.
 7.30—Choir from Östersund. Conductor: Hugo Alfvén.
 7.55—Talk from Uppsala.
 8.25—Radio Orchestra. Conductor: Tor Mann. Norrby (Cello). Overtura piccola (Rosenberg). Divertimento (Lars-Erik Larsson). Fantasy for Cello and Orchestra (Heintze). Dances, “Bäckahästen” (Atterberg).
 9.5—Legal Talk.
 9.25—Cabaret Songs by Lulu Ziegler from Malmö.
 9.45—Reading.
 10.0—News; Weather.
 10.15-11.0—Dance Band.

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
 Transmits at intervals from 6.30 a.m.
 6.15 p.m.—Economics; Social Notes.
 6.30—See Paris (PTT).
 7.0—News (French, German).
 7.30—Request Records.
 8.0—News (French, German); Records.
 8.30 (also Rennes-Bretagne and Nice-Côte d'Azur)—Spain in Music—Concert from the Salle du Conservatoire, Paris. National Orchestra, Conductor: Inghelbrecht. Pauline Gordon (Pfte.). Suite, Iberia (Albeniz-Inghelbrecht). Spanish Caprice (Rimsky-Korsakov). Iberia (Debussy). Dances from “The Three-Cornered Hat” (Falla).
 10.30—News; Exchange.
 10.37—News (German).
 10.45-11.0—Talk: Passive Resistance.

STUTTGART

574 kc/s (522.6 m.); 100 kW.
 Transmits at intervals from 5.45 a.m.
 6.0 p.m.—Records: Light Music.
 6.45—Topical Talk.
 7.0—See Saarbrücken.
 7.30—Talk: “German Aviation.”
 8.0—News.
 8.15—See Leipzig.
 10.0—News.
 10.30—See Breslau.
 12.0 m't.-2.0 a.m. (Thursday)—See Hamburg.

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW.
 Transmits at intervals from 8.0 a.m.
 6.0 p.m.—News; Chansonnettes.
 6.40—Musette Orchestra.
 6.55—News; Sports Notes.
 7.5—Musical Comedy Music.
 7.10—Humorous Sketch; Talk.
 7.20—Saxophone and Violin.
 7.40—Light Music.
 7.55—News; Sketch; Marches.
 8.25—Revue with Roméo Carles and Pierre Ferrary.



M. S. Szpinalski, the Polish pianist. He will play a Chopin Sonata and Waltz in the Warsaw studio at 9 p.m.

8.40—Marches.
 9.10—Talks; Dances.
 9.40—Humorous Sketch; Talk.
 10.0—News; Request Music.
 10.45—Light Music and Operetta Music. March (Mornay). Selection, “Le roi des galejeurs” (Scott). “Monsieur Beaucaire” (Messager) and “The Land of Smiles” (Lehar). L'eluevien (Defrance).
 11.0-11.10—News.

WEDNESDAY (May 31)

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 30 kW. Milan (No. 1), etc. See Sunday.
 Transmits at intervals from 7.30 a.m.
 5.0 p.m.—News.
 5.15-5.50—Emilia Vidali (Soprano), Ferrara (Bass).
 7.20—Weather; Records.
 8.0—Time; News; Topical.
 8.30—Melody and Rhythm—String Orchestra, Conductor: Petralia.
 8.36 (Milan (No. 1) and Rome (No. 2) only)—News (German).
 9.0—“Appuntamento al Caffè”—One-Act Play (Maggi).
 9.45—Records.
 10.0—Dopolavoro Band and Choir. Conductor: Crispini. Hungarian Dances (Brahms). Excerpt, “Le villi” (Puccini). Invitation to the Waltz (Weber). Dance of the Hours, “La Gioconda” (Ponchielli). Choruses “Norma” (Bellini). “Lohengrin” (Wagner) and “Don Pasquale” (Donizetti). Excerpts, “Othello” (Verdi).
 11.0—News.
 11.15-12.0 m't.—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW.
 Graz, etc. See Sunday.
 Transmits at intervals from 6.0 a.m.
 6.0 p.m.—Book Review.
 6.20—Talk: “Tiger Hunting.”
 6.40—Records.
 6.45—Guessing Competition.
 7.0—German and Russian Songs by Strienz (Bass), Meller (Pfte.). Songs (Wolf): (a) Wohl denk' ich oft, (b) Alles endet, was entsteht. Songs (Grecchaninov): (a) The dreary Steppe, (b) Death, (c) Home. Songs (Mussorgsky): (a) The Seminarist, (b) Song of the Flea.
 7.30—Topical Review.
 7.50—News in Ukrainian.
 8.0—News; Weather.
 8.15-10.0—See Deutschlandsender.
 10.0—News; Press Review.
 10.30-12.0 m't.—Music from Vienna—Orchestra, Conductor: Schönherr; Hans Weber (Pfte.). Uhlenhut (Violin) and the Vienna

Philharmonic Trumpet Quintet. Suite, Musik aus Wien (Otto Walter). Soirée de Vienne (Schubert-Liszt). Roco Suite (Böhme). Violin and Orchestra: Berceuse (Wetichy). Trumpet Quintet: Scherzo (Anon.). Pfte.: Tarantella (Liszt). Styrian Waltz, G'schichten aus dem Ennstal (Pachernegg). Trumpet Quintet: (a) Romance (Hase-nöhr), (b) Kleiner Marsch (Lorenz). Overture, “Das Nachtlager von Granada” (Kreutzer). Pfte.: Concert Paraphrase on a Waltz from “The Gipsy Baron” (Strauss—Dohnányi). Trumpet Quintet: Tarantella (Musil). Ballet, “La Gioconda” (Ponchielli).

WARSAW

224 kc/s (1,339 m.); 120 kW.
 Cracow, etc. See Sunday.
 Transmits at intervals from 6.30 a.m.
 5.0 p.m.—For Soldiers.
 5.15 (from Lwów)—Talk with Records: “Debussy.”
 5.55—Talk: “The Polish Red Cross.”
 6.5—Records: Operetta Songs.
 6.30—Talk: “The Polish Language.”
 6.40—Talk.
 6.55—Light Music—Orchestra, Conductor: Gorzynski, with Sykulska, Jaslowski and the Radio Quintuplets.
 8.0—For Country People.
 8.15—Polish Music—Orchestra, Conductor: Gorzynski. Morning Prayer (Rybicki). Dance (Rybicki). Humoresque (Popiel). Minuet (Rudnicki). Mazurka (Zelenski).
 8.35—News; Sports; To-morrow's Programme.
 9.0 (from Wilno)—Chopin Recital by Szpinalski (Pfte.). Sonata in B minor. Waltz in A flat.
 9.30 (from Cracow)—Literary Talk: “Polish Novels.”
 9.45—Operetta Records.
 10.20—Records: Pfte. Concerto in E flat (Schumann).
 10.55—Press Review; News.
 11.5-11.15—News (English).

June 1 THURSDAY

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW.
 Transmits at intervals from 6.0 a.m.
 6.0 p.m.—Dances—Orchestra, Conductor: Willy Steiner. Rockstroh and Gottschalk (Pftes.).
 7.20—Suite for Nine Instruments on the Puppet Play, “Dr. Johannes Faust” (Chemini-Petit). Chamber Orchestra, Conductor: The Composer.
 7.45—Evening Echoes.
 8.0—News.
 8.15—See Frankfurt.
 10.0—News; Weather; Sports.
 10.30-12.0 m't.—See Stuttgart.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW.
 Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).
 6.20 a.m.—Gym; Records.
 6.50-7.10—Markets; Tourist Notes.
 12.0 noon—Chimes; Records: Caprices.
 12.27 p.m.—Exchange; News.
 12.40-1.45—Operetta and Film Records.
 4.30—For Invalids.
 5.0-6.0—See Sottens.
 6.10—For Women; Records; Talk.
 7.0—Records; School Broadcast Notes.
 7.20—Topical Review.
 7.30 (from Berne)—Weather; News.
 7.40—Zürich Radio Orchestra.
 8.50—Talk in Dialect.
 9.10—Talk: The Sixth Swiss Yodel Festival.
 10.0—Talk in English: “Switzerland and the Swiss.”
 10.30—To-morrow's Programmes.

BORDEAUX-LAFAYETTE

1,077 kc/s (278.6 m.); 60 kW.
 Transmits at intervals from 6.30 a.m.
 6.30 p.m.—Chamber Music—Marie-Jeanne Lasségue-Doublet and Georges Carrère (Violins) and Georgette Renard (Pfte.). Concerto in D minor (Bach). Pfte.: Two Etudes (Chopin).

7.0—Science Talk; Amusements.
 7.20—For Wine Growers.
 7.30—Radio Journal de France.
 8.15—Talks; Records.
 9.0—Beethoven-Wagner Festival Concert from the Terrasse des Quinconces. Conservatoire Concert Orchestra, Conductor: Poulet; Conservatoire, Burdigala and the S.N.C.F. Choirs, Part I. Beethoven, Overture, “Egmont.” Finale from the Eighth Symphony. Part II. Wagner, Excerpts, “The Mastersingers.” Ride of the Valkyries, “The Valkyrie.” Excerpts, “Tannhäuser.” After the Concert, News.

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW.
 Presov, etc. See Sunday.
 Transmits at intervals from 6.30 a.m.
 5.50 p.m.—News in Hungarian.
 6.0—Programme in German.
 7.0—Military Notes; Records.
 7.10—News; Topical; Records.
 8.20—Talk.
 8.35—Slovak Songs (Novák).
 8.55—Japan—Sequence.
 9.15—Orchestra. Conductor: Babušek.
 9.45—News.
 10.0—Contemporary Slovak Music—Songs and Pfte.
 10.30—News in French; Records.

BRESLAU

950 kc/s (315.8 m.); 100 kW.
 Gleiwitz, etc. See Sunday.
 Transmits at intervals from 5.0 a.m.
 6.0 p.m.—Alles dreht sich um die Sonne—Sequence in Words and Music (Dolata), with Children's Choir.
 6.35—Records.
 7.0-7.45—See Stuttgart.
 8.0—News.
 8.15—Hungarian Composers—Orchestra, Conductor: Prade. Suite in F sharp minor (Dohnányi). Pictures from Hungary (Bela Bartók). Suite, Hány Janos (Kodály). Dances from Maroszek (Kodály); at 9.0—Reading.

THURSDAY (June 1)

10.0—News.
10.15—Topical Review.
10.30-12.0 m't.—Dance Band (Recorded).

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW.
6.30-9.0 a.m.—Records; Gym; News.
12.0 noon—Records.
12.30 p.m.—Weather; Shipping.
12.35—Orchestra; Records; at 1.0-1.10—News.
2.0-2.3—Art Review.
4.55—Announcements.
5.0—Music Lesson.
5.30—For Children.
6.0—Literary Review.
6.15—Orchestra. Conductor: Gason; Lombard (Xylophone). The Merry Makers (Coates). Florentine Serenade (Godard). Mazurka (Godard). Moonlight on the Alster (Fetras). Xylophone Solos. Selection. "Show-Boat" (Kern). Slav Rhapsody (Rust).
7.0—For Workers; Song Records.
7.30—News.
8.0—Records.
8.10—"El Coudeus d'pums"—Walloon Sketch (Dewandelaere). Music by Harry King.
8.30—Records.
8.45—Political Review.
9.0—INR Symphony Orchestra. Conductor: Dejoncker. Mme Callewaert, Daems and Toutenel (Singers). Part I: Overture, "Semiramide" (Rossini) Part II: "Remous"—Opera (Van Durme).
10.0—News.
10.10-11.0—Records.

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.
6.30-9.0 a.m.—Records; Gym; News.
12.0 noon—Records.
12.30 p.m.—Weather; Cabaret.
12.45—INR Jazz Band; at 1.0-1.10—News; Shipping.
1.30-2.0—Cabaret Records.
4.55—Announcements.
5.0—Debussy Records.
5.45—For Youth; Opera Records.
6.42—KVRO and Film Notes; Talk.
7.0—Records.
7.30—News.
8.0—A Trip on the Good Ship "Radio"—the "KVRO Gezellen" Choir and Orchestra. Conductor: Doulez; at 8.45-9.0—Talk.
9.50—Records: Ave Verum (Mozart).
10.0—News.
10.10-11.0—INR Jazz Band.

BUCHAREST

823 kc/s (364.5 m.); 12 kW.
Relayed by Radio-Romania, 160 kc/s (1,875 m.).
Transmits at intervals from 6.0 a.m.
6.17 p.m.—Flower Festival.
7.5—Talk.
7.20—"Carmen" Choir.
7.55—Mme Chelaru-Serbesco (Pfte.).
8.25—Records of Romantic Music; at 9.0—News.
10.0—News.
10.15—Restaurant Orchestra.
10.45—News (French, English).

BUDAPEST (No. 1)

546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.10 p.m.—Ferenc Jancsin (Violin).
12.40—News.
1.0—Honvéd Military Band. Conductor: Serégi.
2.30—News.
4.15—László Varga.
4.45—News.
5.0—News (Slovak, Ruthenian).
5.10—Talk: Arpad Festzy.
5.35—Kiss Cigány Band. Egerváry (Tárogató).
6.0—Talk: The Hungarian Language.
7.0—For Farmers.
7.15—News.
7.30—Act I, "The Magic Flute" (Mozart), from the Royal Opera.
9.0—Mursi Cigány Band.
9.40—News.
10.0—Ernő Dohnányi (Pfte.). Waltzes (Schubert). Waltzes, "Die Fledermaus" and "The Gipsy Baron" (Strauss). Waltz, "Coppélia" (Delibes). Waltz, "Naïfa" (Delibes).
10.40—News (German, Italian).
10.50—News (English, French).
11.0—Records.
12.5 a.m. (Friday)—News.

BUDAPEST (No. 2)

359.5 kc/s (834.5 m.); 18 kW.
6.25 p.m.—English Lesson.
7.0—French Music—Records.
8.0—News.
8.20—Station Band.
9.25—Act II, "The Magic Flute" (Mozart), from the Royal Opera.
COLOGNE
658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
6.10 p.m.—Songs.
6.45—History Talk.
7.0—Talk: The U.S.S.R.
7.15—"For Mother and Child"—Eysoldt Orchestra; at 7.55—"And To-day"—at 8.0—News; at 8.15—News in English.
9.0—"The Living Past"—Visits to Soest, Münster, Paderborn and Osnabrück.
10.0—News.
10.15—News in English.
10.35-12.0 m't.—Music from Breslau.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
Transmits at intervals from 6.0 a.m.
3.15 p.m.—Chamber Music—Michel and Taubert (Pftes.) and Chamber Choir.
3.55—Programmes.
4.0—Dobrinde Orchestra; at 5.0-5.10—Reading.
6.0—Sports.
6.15—Sonata in B minor (Respighi) by Brero (Violin) and Aeschbacher (Pfte.).
6.45—Report: The Cycle Tour of Greater Germany—Berlin-Stettin.
7.0—See Munich.
8.0—Motto; News.
8.15—German and Italian Music by Augmented Orchestra. Conductor: Heger. Erich Röhn (Violin).
9.45—News; Weather; Sports.
10.0-10.40—See Budapest.
11.0-12.0 m't.—Dance Music from Breslau.

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
6.0 p.m.—Topical Talks.
6.30—"In a Game Preserve"—Sequence.
7.15—Topical Review; Records.
8.0—Time; News; Weather.
8.15—Italian Music—Choir and Orchestras. Conductors: Moritz and Hauck, Brunelli (Tenor) and Hähse (Baritone). Part I: Opera Music. Prelude, "I Ranzau" (Mascagni). Aria, "Andrea Chénier" (Giordano). Tarentella, "The Force of Destiny" (Verdi). Aria, "Il Trovatore" (Verdi). Introduction to Act III, "Madame Butterfly" (Puccini). Arias, "The Force of Destiny" and "Aida" (Verdi). Romance, "L'Arlesiana" (Cilea). Excerpt, "Manon Lescaut" (Puccini). Arias, "Othello" (Verdi) and "Turandot" (Puccini). Intermezzo, "Cavalleria rusticana" (Mascagni). Aria, "La Bohème" (Puccini). Hymn to the Sun, "Iris" (Mascagni). Part II: Light Classical Music. Movement from the Suite, Neapolitan Pictures (Culotta). Waltz, Amore (Iviglia). Lolita (Buzzi-Pecchia). Movement from the Suite Pastorale (Scassola). Chiribiribin (Pestalozza). Momento musicale (Nucci). Amor mio (Ricciardi). Gitana, "Suite di Danze" (Bormioli). Funiculi—Funicula (Denza). Maria, Marie (di Capua). "Italia canora"—Fantasia on Italian Folk Songs.
10.0—News; Sports; Talk.
10.30-12.0 m't.—See Stuttgart.

HAMBURG

904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday.
Transmits at intervals from 5.45 a.m.
6.0 p.m.—Variety. Part I: "Flowers"—Musical Sequence (Weissbach). Singers, Speakers, etc. Part II: Lincke Music—Orchestra. Conductor: Müller-Lampertz. Jakschatt (Bass-Baritone). March, Berliner Luft. Overture, "Im Reiche des Indra." Song, "Nakiris Hochzeit." Intermezzo, "Amina." Waltz, Beautiful Spring. Song, Es war einmal. Geburtstagsständchen. Intermezzo, Siamesische Wachtparade. Song, Im Walzer-Parade. March, Lasst den Kopf nicht hängen; at 6.45—Shipping.
7.45—Topical Review; Sports.

8.0—News.
8.15—News in English.
8.30—Music from Frankfurt.
10.0—News.
10.20—News in English.
10.35—Sports.
10.50—Orchestra. Conductor: von Sosen. Part I: Music of Many Lands. Part II: New Waltzes.
12.0 m't.—3.0 a.m. (Friday)—See Munich.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 120 kW from 8.40 p.m.; and Jaarsveld, 722 kc/s (415.5 m.). 17 kW.
7.40-8.55 a.m.—KRO Programme: Records.
9.40-10.40—NCRV Programme.
9.40—Salvation Army Records.
9.55—Service; Records.
10.40 a.m.—1.40 p.m.—KRO Programme.
10.40—Records.
11.10—Rev. Fr. Dito, O.P.
11.40—Police Notes; Weather.
11.55—KRO Orchestra. Conductor: van 't Woud. Schotman (Trombone); at 12.40-1.0 p.m.—Records.
1.40 till Close—NCRV Programme.
1.40—Hobbies; Records.
2.40—For Women; Records.
3.25—Bible Reading.
4.25—Records; Handwork.
5.10—Van Eden Women's Ensemble; In the interval, Records.
6.40—Police Notes.
6.55—Press Review; Records.
7.40—News; S.O.S. Messages.
7.55—Sacred Choral Music with Commentary by the Rev. Groenenberg.
8.40—Talk.
9.10—Nelly Wagenaar (Pfte.). Sonata in F (Haydn). La puerta del vino (Debussy). Etude pour les arpeges composés (Debussy). Lo Spasializio (Liszt).
9.40—News; Topical; Records.
10.25—Gym; Records.
11.30-11.40—Bible Reading.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 15 kW until 8.40 p.m.; 65 kW from 8.40 p.m.
AVRO Programme.
7.40 a.m.—Time; Records.
9.40—Service; Records; Talk.
10.15—Jetty Cantor Ensemble. Talk for Women in the interval.
11.35—AVRO Band. Conductor: Kuhlman.
12.25 p.m.—Records.
12.55—AVRO Orchestra. Conductor: Treep; at 1.40-2.20—Talks: Jobs for Girls.
2.55—Records.
3.10—Pierre Palla (Organ) and Boris Lensky (Violin).
3.40—For Invalids.
4.10—Records; For Children.
5.10—AVRO Variety Orchestra.
6.10—Sports.
6.40—AVRO Dance Band; Ina Verwoerd (Songs).
7.15—Talk.
7.40—Time; News.
8.0—French and Italian Music by the AVRO Orchestra. Conductor: Treep. Johann Wolfgang Süskind (Pfte.).
8.55—Talk and Reading: "Androcles and the Lion" (George Bernard Shaw).
9.40—Pierre Palla (Organ).
9.55—The Twilight Serenaders. Han Lefèvre (Songs).
10.40-11.40—News; Dance Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s (255.1 m.).
Transmits at intervals from 7.0 a.m.
12.0 noon—Kai Julian Orchestra, from Aalborg.
2.0 p.m.—For Housewives.
2.15—Light Swedish Music—Records.
2.30—Louis Preil's Ensemble; at 3.20—Pfte. Sonata in E flat (Haydn) by Carl Vorn.
4.30—For Children.
4.50—Radio Notes.
5.0—Poems (Nils Collett Vogt).
5.25—Weather; Exchange; Markets.
5.50—Records.
6.15—Poems (Seedorff Pedersen).
6.35—English Lesson.
6.50—Talk: "Peace Day, June 2nd."
7.0—Time; News.
7.30—Talk: "Apprenticeship."
8.0—Time; French and Italian Opera Music—Radio Orchestra. Conductor: Grøndahl. Christen Blanche (Songs). Overture, "Benvenuto Cellini" (Berlioz). Cavatina, "Faust" (Gounod). Overture, "Norma" (Bellini). Aria, "Rigoletto" (Verdi). Prelude, "I Ranzau" (Mascagni). Aria, "Fedora" (Giordano). Excerpts, "Louise" (Charpentier).

8.50—Talk: "Self-knowledge and Self-deception."
9.20—Talk with Records (III)—Do you recognise this one?
10.0—News; Weather.
10.20—German Talk: "Rothenburg auf der Tauber—Das Mittelalter spricht aus Steinen."
10.30—Duo Concertante (Weber) by Oxenavd (Clarinet) and Christiansen (Pfte.).
10.55—Film Excerpts.
11.10 p.m.—12.30 a.m. (Friday)—New Yorkers' Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
6.0 p.m.—Sketch; Records.
7.30—"Heydekrug"—Report from a Famous Street Market.
8.0—News; Weather.
8.15—Peter Arco and Records.
9.15—Medical Talk by Professor Bürgers.
10.0—News; Sports; Talk.
10.40-12.0 m't.—Light Orchestral.

LAHTI

166 kc/s (1,807 m.); 150 kW.
Relays Helsinki, 895 kc/s (335.2 m.).
4.0 p.m.—Light Music by the Radio Orchestra. Conductor: Linko.
5.0—Reading.
5.20—Records: Viennese Melodies.
5.40—Talk.
6.15—Talk: Morocco and Old Tangiers.
6.35—The Polka—Humoresque (arr. Pekkarinen).
6.50—Discussion.
7.20—Radio Orchestra. Conductor: Linko. Wibergh (Pfte.).
8.15—For Students.
9.10—Restaurant Music.
10.0-11.0—Records.

LEIPZIG

785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 5.45 a.m.
6.10 p.m.—Trio for Flute, Violin, and Viola (Marteau).
6.30—"Plug in den Sommer" (Brünig).
6.50—A Microphone Visit to Zips.
7.50—Topical Review.
8.0—News.
8.15 (from Dresden)—"The Fourth Centenary of the Saxon Artillery"—with Soldiers' Chorus, Military Band, and Accordion.
10.0—News; Sports; Books.
10.40-12.0 m't.—Music from Stuttgart.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.30 p.m.—Radio Journal.
8.15—Thursday Night Variety.
9.30—Band, with Didelot (Tuba). March (Romberg). Overture, Renovation (Bajus). Fantasia for Tuba (Dessoutter). Spanish Suite (Barat). Selection, "The Bayadere" (Kálmán). Quand vient le soir (Gaudet). Scène de Ballet (Luigini). Waltz, Toute gracieuse (Wattelle). March, Jean Valjean (Bajus).
10.30—News; Exchange.

LISBON

629 kc/s (476.9 m.); 20 kW.
Transmits at intervals from 1.0 p.m.
8.0 p.m.—Talk: The Eighth Centenary of the Portuguese Constitution.
8.10—Military Band.
8.30—News; Records.
9.30—Topical Talk; Music.
10.0—Weekly Review; Concert.
11.0—Fados.
11.30—News; Request Music.
12.30-1.0 a.m. (Friday)—Weather; Dance Music.

LYONS (PTT)

648 kc/s (463 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio Journal de France.
7.45—Records.
8.5—News in Serbo-Croat.
8.15—Economics; Social Notes.
8.30—"Dollars"—Play (Praxy).
10.30—News; Dance Records.
11.15—News in German.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon.
7.25 p.m.—Light Orchestral.
7.50—News.
8.0—Light Orchestral.
8.20—Topical Review.

8.40—"Don Pasquale"—Opera (Donizetti) (Scala Milan Recordings). Conductor: Sabajno, with Tito Schipa, etc.
10.0-10.15—Dance Records.

MONTPELLIER (PTT)

1,339 kc/s (224 m.); 1 kW.
Transmits at intervals from 6.30 a.m.
8.30 p.m.—"La Fauvette du Temple"—Operetta (Messenger).
10.30—News; Records.

MOSCOW

172 kc/s (1,744 m.); 500 kW.
Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW.
See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 6.0 a.m.
5.10 p.m.—Orchestra, Elfriede Glockzin (Contralto), Koscielny (Cello) and Holzinger-Rauh (Pfte.).
6.45—"Raw Materials"—Science Talk.
7.0—The Battle of Jutland—A Memorial Programme in Words and Music, with Talk by Admiral Erhard Schmidt among Other Survivors.
8.0—Time; News; Weather.
8.15—"Bezauberndes Fräulein"—Musical Comedy (Benatzky). Conductor: Michalski (Recorded).
10.0-10.20—Time; News; Sports.
10.30—See Stuttgart.
12.0 m't.—8.0 a.m. (Friday)—Serenade (Recorded)—Orchestra, Conductor: Mihalovic.

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
6.0 p.m.—Italian Folk Song Records.
7.0—Music; Talks.
7.20—Song Records.
8.0—News; Topical.
8.30—"Un eroe"—Three-Act Play (Poggio).
10.30-12.0 m't.—Dance Music; at 11.0—News.

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio Journal.
7.45—See Paris (PTT).
8.15—News in Italian.
8.30—See Paris (PTT).
10.30—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Bergen (Askoi), etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.3 p.m.—Variety Concert.
5.50—Service.
6.15—Choruses.
6.30—News; Records; Talk.
7.55—Variety Concert; Talk.
8.45—Havas (Violin).
9.15—Literary Review.
9.40—News; Topical Talk.
10.15-10.45—Wind Band.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 5 kW.
Transmits at intervals from 10.20 a.m.
5.15 p.m.—Concert from the Grand Trianon, Versailles. Choir and Orchestra with Ninon Vallin, Louis Musy, Cathelat, Etchverry and Ruggero Gerlin. Soloists, Choir and Orchestra: Prologue des fêtes de Thalie (Mouret). Harpsichord Concerto (Schober). Airs (Rameau), 18th Century French Piece for Harpsichord. Soloists, Choir and Orchestra: "Fêtes du Soleil." "Les Indes galantes" (Rameau). Le Tombeau de Couperin (Ravel).
6.45—Records.
7.0—Mme Piffaut (Songs) and Mme Robert Casadesu (Pfte.). Pfte.: Three Pieces (Rameau): (a) Les tendres plaintes, (b) Le Rappel des Oiseaux, (c) L'Egyptienne. Aria, "Paris and Helen" (Gluck). Pfte.: (a) Jeux d'eau (Ravel), (b) Triana (Albeniz). Three Songs (Clergue).
7.30—Radio Journal de France.
8.15—Aubert Music for Children, from Toulouse (PTT).
8.30—See Montpellier (PTT).
10.30-11.0—News; Records.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
6.0 p.m.—News; Exchange.

THURSDAY (June 1)

6.10—Bible History in Pictures — Rev. Fr. Roguet.
6.25—The Family Half-Hour, with Jean Nohain.
6.57—Racing Results.
7.0—News; Sports; Amusements.
7.15—Variety Records.
7.40—Legal Talk; Records.
8.0—Topical Review; Talk.
8.15—Paris Gossip; Film Talk.
8.25—Steeplechase, with Fernand Rauzena, Lita Recio and Pierre Zeppilli's Orchestra.
9.45—Marguerite Moreno's Reminiscences.
10.0—News.
10.7—International Stars — Programme arranged by Adolphe Borchard.
11.0 — From the Jean Delettre Cabaret.
11.30—News (French, Italian).

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m.
12.30 p.m.—Gaston Rey (Songs).
12.45—News; Exchange.
1.5—For Children.
1.30—Aviation Notes.
1.40—Orchestra from Alpes-Grenoble (PTT).
2.20—Maryse Paillet (Songs).
2.30—For Schools; Records.
3.5—Ellis Orchestra.
3.45—Talk for Youth.
3.55—Music Talk by Charles Oulmont, with Ptte. Illustrations.
4.5—Talk: "Art and Life."
4.15—Science Talk.
4.25—Ellis Orchestra.
5.5—Massenet—"Music Talk for Schools."
5.35—Geneviève Genty (Organ), from the Schola Cantorum. Fantasia in C minor (Bach). Fugue in G minor (Bach). Choral in E (Frank).
6.5—Lucienne Astruc (Songs).
6.15—News.
6.30—See Bordeaux-Lafayette.
7.0—News; Records.
7.45—Radio Fantasy (P. and R. Constantin Brive), with the Authors, etc.
8.15—Talk: "Urbanism."
8.30—"La Naissance de Tristan"—Dramatic Poem (Deliaquys), with Samson Fainsilber, Mmes Yvonne Lambray, etc.
10.30—News; Exchange.
10.45—Dance Records.

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.30 a.m.—News; Gym; Records.
7.35-7.50—Italian Lesson.
8.15—Ministry of Education Report.
8.30—News; For Scouts.
9.0—News; For Schools.
9.25-9.40—Review of the German Technical Press.
11.50—Exchange; Water Level; Markets.
11.55—Protestant Address.
12.15 p.m.—Schumann Songs by Robert Laurence.
12.25—Talk.
12.35—For Ex-Servicemen.
12.40—Exchange.
12.45—Time; Radio Journal; Programmes.
1.10—Pascal Orchestra; Reading.
2.5—Talk: The Theatre in the 17th and 18th Centuries.
2.15—Mme Souza-Rosa (Songs).
2.30—Andrée Thierret (Ptte.).
2.45—Talk: Folklore.
2.55—Exchange; Humour.
3.15—Eugene Huber (Ptte.).
3.45—Book Review by Auguste Bailly.
4.0—Economic and Social Notes.
4.15—Renée Chemet (Violin).
4.30—Mme Myrtal (Songs).
4.45—Medical Talk.
5.0—Exchange; Markets.
5.5—Chamber Music — Bernadette Delprat (Songs), Perlemuter (Ptte.) and Cahuzac (Clarinet). Aria, "Julius Caesar" (Handel). Phydilé (Duparc). La Vie antérieure (Duparc). Sonata for Ptte. and Clarinet (Brahms).
5.45—Drama of the Revolution: (a) Scenes from "Charles IX" (M. J. Chénier) (1789); (b) "Le Triomphe du Tiers Etat" — One-Act Play (Anon.) (1789), by the Odéon Players.
7.0—Programmes; Racing.
7.5—Bailly Orchestra. Overture, "William Tell" (Rossini). Les violons de M. de Conti (Wormser). Ballet. Javotte (Saint-Saëns). La fille aux cheveux de lin (Debussy). Selection, "Le voyage dans la Lune" (Offenbach). Valse triste (Sibelius). Florentine Serenade (Godard). Four Cinderella Dances (Herman Löhr). Parade galante (Ganne).

8.0—Time; Radio Journal.
8.30—"La nuit embaumée" — Opera in Three Acts (Hirschmann), from the Opéra-Comique. In the interval, News.
11.45—To-morrow's Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m.
5.30 p.m.—Novák (Violin). Solo (Ptte.). Sonata (Borkovec). Intimate Moments (Petrzelka).
6.0—Farmers' Calendar; Records.
6.20—Catholic Action.
6.30—Light Orchestra, from Moravská-Ostrava; at 7.0—News.
7.40—Ten Czech Folk-Songs (Jindřich) by a Children's Choir.
8.0—"In treno" (Men in the Train)—A Radio Grotesque (Giannini-Celsi).
9.30—Scènes de Ballet (Glazunov), from Brno.
10.0-11.0—News; Records.

RADIO-EIREANN

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday.
1.30 p.m.—Records.
2.30-3.0—For Schools.
5.30—Vocal Quartet, from the Keating Branch of the Gaelic League.
6.0—Richard Kiernan (Violin).
6.15—Drama: "Cuis Dlighe" (Liam O'Rinn)—Comhar Dramuiochta, Corcaige.
6.45—News.
7.5—"Haydn in London"—Dr. Walter Starkie.
7.50—Irish Radio Orchestra. Conductor: Capt. J. M. Doyle; Mabel Home (Contralto).
8.50—"June"—Feature Programme by Don MacDonagh.
9.20—Nuacht an Lae — Gaelic News.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-LYONS

1,393 kc/s (215.4 m.); 25 kW. Transmits at intervals from 12.0 noon.
6.45 p.m.—For Children.
7.20—Amusement Guide.
7.25—Orchestra. Excerpts, "A Waltz Dream" (O. Strauss). "Monsieur Beaucaire" (Messager). "Trois jeunes filles" (Moretti) and "La Haut" (Yvain).
7.55—Journal Parlé.
8.0—Light Music; Songs.
9.0—"Le mariage de Berlioz"—Play (Praxy).
9.45—Dance Music.
10.0—News.
10.5-11.30—Variety Concert.

RADIO-MEDITERRANÉE

1,321 kc/s (227.1 m.); 27 kW. Transmits at intervals from 12.15 p.m.
7.15 p.m.—For Ex-Servicemen.
7.25—Amusements; Request.
7.45—Music; Talk.
8.10—News; Exchange.
8.15—Humorous Items; Music.
9.5—Weather; Light Music.
10.15—News; Dance Music.

RADIO-NORMANDIE

1,095 kc/s (274 m.); 20 kW.
6.30 a.m.—Music; Press Review.
7.0—Radio Reveille.
7.15—Time; The Open Road.
7.30—Time; Tunes of Today; at 7.45—Time.
8.0—Time; New Personalities for 1940.
8.15—Time; Cinemagazine.
8.30—French News Bulletin.
8.40—Your Message from the Stars.
8.45—The Potted Show, with Clarence Wright and Peggy Desmond.
9.0—Time; Cyril Fletcher in Odd Odes and Music.
9.15—A Programme of Popular Tunes.
9.30—Time; The Mansion of Melody—Harold Ramsay (Organ).
9.45—London Merry-Go-Round, with Teddy Randall's Band.
10.0—Sacred Music from the Basilica of St. Theresa, Lisieux.
11.0—Orchestra.
11.15—Charpini and Brancato.
11.30—Saxophone; Light Music.
12.0 noon—Military Band.
12.30 p.m.—French News Bulletin.
1.0—For Children.
2.0—Ask for Another.
2.30—Harlesden Salvation Army Brass Band.
2.45—Young Widow Jones.
3.0—Time; Backstage Wife.
3.15—"Stella Dallas."
3.30—Ed and Don, Singing Cow-boys.
3.45—The Musical Mirror.
4.0—Time; Radio Who's Who.
4.15—The Gospel Singer.
4.30—Harmony in the New Style — Sue and her Boy Friends.
4.45—Marmaduke Brown and Matilda.

5.0—Time; Songs we know them by.
5.15—Around the World with Sandy Powell.
5.30—For Boys and Girls.
5.45—Going Greyhound Racing?
6.0—Markets.
6.5—Sacred Music from the Basilica of St. Theresa, Lisieux.
6.50—Talk; News; Racing.
7.0—Light Music; Recitations.
7.30—Chansonnets.
8.0—French News Bulletin.
8.15—Excerpts, "Au Soleil de Marseilles"—Opéra (Sellers).
8.30—Fritsch (Baritone).
8.45—Excerpts, "Florestan I"—Opéra (Heymann).
9.0—March of Time: Liszt Concert.
10.0—Variety. In the interval, Talk by M. Brille.
11.0—Café Concert.
12.0 m.t.—Melody at Midnight.
12.30-1.0 a.m. (Friday)—Time; Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m.
7.30 p.m.—Radio Journal.
8.15—Records.
8.30—A Play.
10.30—News; Records.



Benjamin Britten, the distinguished English musician. One of his works forms part of the programme of English music which will be broadcast from Warsaw at 10 p.m.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
5.0 p.m.—News; Aviation.
5.15—Italo-Brazilian Exchange Concert.
6.0—For Merchant Shipping.
6.25-6.35—Talk.
7.0—News in French.
7.18—News in English.
7.40—German Lesson.
8.0—News; Topical; Music.
9.0—"Poliuto"—Opera (Donizetti). Conductor: La Rosa Parodi. Chorus Master: Consoli. Cast: Giuseppe Manacchini, Armando Giannotti, Aureliano Pertile, Maria Pedrini, Augusto Beuf and Emilio Venturini. Talks in the intervals. After the Opera, News and Dance Music.
12.0 m.t.—News in French.
12.16-12.30 a.m. (Friday)—News in English.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW. Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
6.0 p.m.—Records.
6.40—"The Hard"—Sequence.
7.0—New Folk-Songs by Margarete Schlenska-Kramm.
7.30—Topical Review.
8.0—Time; News; Weather.
8.15—"Karl Loeve"—Biographical Sequence (Hänsler), with the Composer's Music. Koch (Baritone), Maria Fougner (Ptte.) and Gunda Warneq and Rudolf Schumann (Speakers).
9.0—Light and Dance Music.
10.0—Time; News; Topical.
10.30—See Stuttgart.
12.0 m.t.-3.0 a.m. (Friday)—See Munich.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).
12.29-1.45 p.m.—Time; News; Records.

5.0—Radio Geneva Ensemble; at 5.20-5.40—Records.
6.0—Talk: Patriotism among Swiss Youth Abroad.
6.15-6.30—For Invalids.
6.40—Topical Review; Records.
7.0-7.10—Talk: The Swiss National Exhibition.
7.20—Arts and Letters; Records.
7.40—Talk: Famous Artists.
7.50—News; Chimes.
8.0—Topicalities.
8.5—Romansch Review.
8.30—"Le bar de l'humour"—Variety.
9.15—Great Travellers at the Microphone: "China" by M. Blanchard.
9.40-10.30—Italian Chamber Music — Lausanne Quartet. Quartet in C minor (Galuppi). Quartet in G (Sacchini). Quartets in A minor and D (Cambini-Torrefranca).

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday.
Transmits at intervals from 7.20 a.m.
5.30 p.m. (from Malmö)—Sacred Songs by Oscar Arnö.
5.45—For Children.
6.5—Waldimir's Orchestra.
7.0—News; Weather.
7.30—Cabaret, with Carin Swenson and Harry Brandelius.
8.0—"The Clasp Hands"—A Play.
9.30—Sibelius Concert — Göteborg Radio Orchestra. Conductor: Eckerberg. Symphonic Poem, Pohjola's Daughter. The Swan of Tuonela. March from the Karelia Suite.
10.0-11.0—News; Records.

STRASBOURG

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m.
5.5 p.m.—For Youth.
6.0—Reading: "André Maurois and Alsace" (Camille Schneider).
6.15—Economic and Social Notes.
6.30—See Bordeaux-Lafayette.
7.0—Radio Journal.
7.15—News (German).
7.30—Records: "Tannhäuser" (Wagner).
8.0—News (French, German).
8.15—Records: Marches.
8.30—Bizet Concert — Orchestra. Conductor: Bour. Prelude and Entr'actes. "Carmen." Gipsy Scenes. "The Fair Maid of Perth." Chromatic Variations. Suite, "L'Arlesienne."
9.15—Records: Ernest Fischer (Cinema Organ).
9.30—Fifth Centenary of Strasbourg Cathedral Spire: "Legends of the Cathedral"—Sequence with Music (Nougues), Conductor: Bour.
10.30-11.0—News (French, German); Music.

STUTTGART

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.45 a.m.
6.0 p.m.—Hitler Youth Orchestra.
6.45—Topical Talks.
7.0—"Parade of the Instruments"—Orchestra, etc. Conductor: Butz.
7.45—Topical Report.
8.0—News.
8.15—See Frankfurt.
9.30—"Kapitän Murkys Kajüte"—Play after Charles Sealsfield (Fortner).
10.0—News; Weather; Sports.
10.30—Folk and Light Music.
12.0 m.t.-2.0 a.m. (Friday)—See Munich.

TOULOUSE (PTT)

776 kc/s (386.6 m.); 120 kW. Transmits at intervals from 6.30 a.m.
2.20 p.m.—"Le Mariage Forcé"—Play (Molière).
3.5—For Schools; Records.
3.45—Light Music.
4.25—Exchange.
4.30—For Children.
5.30—Records.
5.45—Light Orchestra.
6.30—Economics; Social Notes.
7.0—Talk; Announcements.
7.30—Radio Journal de France.
8.15—Aubert Music for Children. Conductor: Guithot. Feuille d'images. Suite brève.
8.30-10.30—Programme from Lille.
10.30—News; Records.
11.15—Programme in Spanish.

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m.
6.0 p.m.—News; Songs.
6.40—Light Music.

6.55—News; Light Music.
7.30—Talk; Light Music.
8.0—News; Sketches.
8.30—Talks and Music.
9.15—"London"—A Musical Voyage.
9.30—Dances.
9.40—Humorous Sketch; Talk.
10.0—News; Request Music.
10.45—Light Music.
11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 30 kW. Milan (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
5.0-6.35 p.m.—See Rome Group.
7.10—Dopolarovoro Notes; Records.
7.40—See Rome Group.
8.0—News; Topical; Records.
8.36 (Milan (No. 1) and Rome (No. 2) only)—News in German.
9.0—Variety Concert. Conductor: Seracini.
9.45—Dialogue.
10.0—See Budapest (No. 1).
10.40—Records: Symphony Music.
11.0—News.
11.15-12.0 m.t.—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
4.0 p.m.—Graz Municipal Orchestra. Conductor: Schmitz; and Accordion Band. Festmarsch (R. Strauss). Overture, "La Villanella rapita" (Mozart). Selection, "The Girl of the Golden West" (Puccini). Accordion Band: Rhapsodic Waltz (Haag). Ballet Suite, "Namouna" (Lalo). Kleine Wiener Skizzen (Reinl).
5.0—Poems.
5.10—Graz Municipal Orchestra. Conductor: Schmitz. Sicilian Rhapsody (Ailboud). Suite, Puppenspiele (Czernik). Intermezzo, Blondköpfchen träumt (Steinberger). Das grüne Herz (Bullerian). Waltz, Flüchtige Sekunden (Illert). March, Soldatenblut (von Blon).
6.0—Talk for Girls.
6.10—Talk: German Trade in the South Seas.
6.30—Hungarian Ptte. Music by Cornelius Czarniowski. Humoresque (Dohnanyi). Dance and Turkish March (Bela Bartok). Three Peasant Songs (Bela Bartok). Seventeenth Hungarian Rhapsody—Posthumous (Liszt).
7.0—"Scheffel's Humorous Music," with Reitlers (Songs).
7.30—Topical Review.
7.50—News in Ukrainian.
8.0—News; Weather.
8.15—Dance Band and Deli Schön (Soprano).
9.30—"Comrade, where are you?"
10.0—News; Press Review.
10.30-12.0 m.t.—See Stuttgart.

WARSAW

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday.
Transmits at intervals from 6.30 a.m.
5.20 p.m.—Latvian Music by Rusevics (Violin). Air (Medins). Mazurka (Vitolis). Sonata in C (Kepitis).
6.0—Records: In Paris.
6.30—Talk: The Red Cross.
6.40 (from Katowice)—Band.
7.5 (from Poznań)—Orchestra with Raabe (Violin). Cwojdzinski (Clarinet). Overture, "Pique Dame" (Suppé). Le mystère des yeux (Carrena). Clarinet: Klari-fari (Steinbacher). Suite, Südllich der Alpen (Fischer). Violin: (a) Spanish Serenade (Chaminade). (b) Bohemian Dance (Nachez). Volksliedchen und Märchen (Komzak). Souvenir de Capri (Bece). La Tarentina (Winkler).
8.0—For Country People.
8.15 (from Poznań)—Orchestra, Violin and Clarinet (cont'd.). Overture, "Halka" (Moniuszko). Polka (Kowalik). Mazurka and Oberek (Wojciechowski).
8.35—News; Programmes.
9.0—Lungi da voi, che siete poli (Handel) sung by Bonder (Bass).
9.15 (from Cracow)—"The Bridge"—Play (Fik).
10.0—English Music: Symphony Orchestra. Conductor: Fittelberg. London Overture (Ireland). Variations on a Theme of Franck (Benjamin Britten). Piece for Strings (Bridge). Overture, Cockaigne (Elgar).
10.55—Press Review; News.
11.5-11.55—Polish Music by Kmita (Violin). Lifan (Cello) and Lefeld (Ptte.). Trio in E (Zeleniński). Trio (Panufnik).

FRIDAY June 2

National

For Time Signals, see Monday.

- 10.15 a.m. (D)—Service.
- 10.30 (D)—Weather Forecast.
- 10.45—Your Own Health.
- 11.0—Songs.
- 11.30—Marshall M. Gilchrist (Organ). 12.0—Piano Recital.
- 12.15 p.m.—Jack White's Collegians. 1.0—"Empire Exchange."
- 1.15—Birmingham Philharmonic String Orchestra; Dorothy Manley (Pfte.).
- 2.0—Ladies' Golf: England v. France. 2.10—Records.
- 3.0—Carlton Hotel Orchestra.
- 3.35—Schools. 4.0—"Jutland."
- 4.50—See 2.0.
- 5.0—BBC Orchestra (Section C).
- 5.40—Records. 6.0—First News.
- 6.20—Bulletin for Farmers.
- 6.25—BBC Variety Orchestra.
- 7.15—Friedrich Buxbaum ('Cello); Max Pirani (Pfte.).
- 8.0—"I Want to be an Actor."
- 8.15—"Time to Laugh."
- 9.0—The Third News.
- 9.30—"Musical Chairs."
- 10.45—Mantovani's Dance Orchestra. 11.30—Records.
- 11.50-12.0—News Summary.

London Regional (342.1 m.)

- For Time Signals, see Monday.
- 10.15 a.m.—National.
- 10.45—Ronald Greenwood (Cinema Organ).
- 11.15—BBC Welsh Orchestra; Ethel Gomer-Lewis (Soprano).
- 12.0—Records.
- 12.40 p.m.—Light Music from Switzerland.
- 1.15—Sidney Davey's Players.
- 1.45—Sandy Macpherson (BBC Theatre Organ).
- 2.15—Duke of Cornwall's Light Infantry Band.
- 3.0—Negro Spirituals: records.
- 3.20—Records.
- 3.45—BBC Midland Orchestra conducted by Leslie Howard.
- 5.0—The Children's Hour.
- 5.0—Alfredo Campoli Trio.
- 6.25—The Scottish Country.
- 7.0—The Second News.
- 7.20—Bulletin for Farmers.
- 7.30—"Mardi Gras."
- 8.0—The Royal Tournament.
- 8.30—BBC Orchestra (Section B). Conducted by Walton O'Donnell.
- 9.10—Variety from the New Hippodrome, Coventry.
- 9.50—Six-Day Bicycle Race.
- 10.0—News in French.
- 10.15—News and News talks in German. 10.45—Fourth News.
- 11.5—Mantovani's Dance Orchestra. 11.30-12.0—Swing records.

Midland (296.2 m.)

- 10.15 a.m.—Regional.
- 5.0 p.m.—The Children's Hour.
- 6.0—Donnington Wood and District Male Voice Society.
- 6.25—Regional. 7.20—Announcements.
- 7.30—Regional.
- 8.30—Edward Elgar programme.
- 9.10-12.0—Regional.

Stagshaw (267.4 m.)

- 10.15 a.m.—12.0 m.t.—North.

North (449.1 m.)

- 10.15 a.m.—Regional.
- 5.0 p.m.—The Children's Hour.
- 6.0—Hubert Selby (Cinema Organ).
- 6.25—Margaret Ward (Violin); John Brennan (Pfte.).
- 7.0—The Second News.
- 7.20—"One Day This Week..."
- 7.30—"Swift Serenade."
- 8.0—"Climbing Hut."
- 8.20—"People's Theatre;" programme on Bradford Civic Playhouse.
- 9.0—"Flippant Fingers;" Ray Baines. 9.10-12.0—Regional.

West (285.7 m.)

- 10.45 a.m.—National.
- 6.0 p.m.—Regional.
- 7.20—Western Announcements.
- 7.30—Regional.
- 8.0—"West-Country Visitors' Book."
- 8.15—"What sort of music?" discussion.
- 8.50—Harold Fairhurst (Violin); Winifred Davey (Pfte.); Clifton String Orchestra conducted by Reginald Redman.
- 9.50-11.5—Regional.

Wales (373.1 m.)

- 10.15 a.m.—Regional.
- 5.0 p.m.—The Children's Hour.
- 6.0—North.
- 6.25—Garddio a Chadw Gwynyn.
- 7.0—The Second News.
- 7.20—Announcements for Wales.
- 7.30—Studio Variety.
- 7.45—"The Clock;" story by A. J. Maddox. 8.0—Regional.
- 8.30—Penarth (Glamorgan) Ladies' Choral Society; Joyce Haydon-Bull (Pfte.).
- 9.10—"Elis Wynne o Lasynys."
- 9.50—Regional.
- 10.0—Ballads.
- 10.20—Old Airs and Dances: European Exchange between Sweden and Scotland.
- 10.45-12.0—Regional.

N. Ireland (307.1 m.)

- 10.15 a.m.—Regional.
- 5.0 p.m.—The Children's Hour.
- 6.0—Roland Powell's Quintet.
- 6.25—Scotland. 7.0—Second News.
- 7.20—N. Ireland News.
- 7.30—Regional.
- 8.30—"Ghosts of Belfast."
- 9.10—Regional. 10.10-12.0—Wales.

Scotland (391.1 m.)

- 10.15 a.m.—Regional.
- 2.0 p.m.—Herring Fishing Bulletin.
- 2.5—Schools. 2.25—Records.
- 2.45—Schools. 3.5—Regional.
- 5.0—The Children's Hour.
- 6.0—George Pulley (Piano).
- 6.10—"The Week-End out of Doors." 6.20—Saturday Sport.
- 6.25—The Scottish Country.
- 7.0—The Second News.
- 7.20—Scottish Announcements.
- 7.30—"Cath Nan Croitearan."
- 7.45—Regional.
- 8.30—Conversation Cricket.
- 9.0—Scots Songs.
- 9.30—Excerpt from Summer Show.
- 10.0—Scottish Sports News.
- 10.5—Records. 10.20-12.0—Wales.

Hours of Transmission in British Summer Time.

BERLIN

- 841 kc/s (356.7 m.); 100 kW.
- Transmits at intervals from 6.0 a.m.
- 6.0 p.m.—Light Musical.
- 7.15—Labour Service Report.
- 7.45—Evening Echoes.
- 8.0—News.
- 8.15—"Don Pasquale" (Donizetti). Cast: Eduard Kandi, Schmitt-Walter, Erna Berger, Sinimberghi and Garavello.
- 10.0—News; Weather; Sports.
- 10.30-12.0 m.t.—See Leipzig.

BEROMÜNSTER

- 556 kc/s (539.6 m.); 100 kW.
- Relayed by Basle and Berne.
- 1.375 kc/s (218.2 m.).
- 6.20 a.m.—Gym; Records of Gigli.
- 6.50—News; Luigini Records.
- 12.0 noon—Chimes; Choral.
- 12.27 p.m.—Exchange; Time; News.

- 12.40 (from Basle)—For the BBC Swiss Folk Music. Binningen Male Voice Choir and Brass Ensemble. Emmi Braun (Yodeller), Ernst Hürzeler (Piano Accordion), Drums and Pipes. Brass Ensemble: Ancient Switzerland greets you (Ney). Choir: Swiss Psalm (Zwysig). Drums and Pipes: New Swiss Marches, Part I. Yodeller and Accordion: Appenzeller Yodel (Schmalz-Krenger). Choir: (a) The Chamois Hunter (Huber), (b) Tattoo (Niggli). Brass Ensemble: Yodeller and Accordion: (a) Swiss Song Potpourri, A Journey through Switzerland, (b) Nature Yodel. Drums and Pipes: New Swiss Marches, Part II. Choir: O my Homeland (Baumgartner). Brass Ensemble: True to the Banner (Lüthold).
- 1.15-1.45—Records: Nature in Music.
- 4.30—Talk for Women: Pestalozzi.
- 5.0—Zürich-Radio Orchestra.
- 6.0—See Monte Ceneri.
- 6.30—News for Children.
- 6.35—Legal Talk: Workers' Rights.
- 6.45—Jodels.
- 7.0—For Farmers.
- 7.15—Ländlers.
- 7.30—Weather; News.

- 7.40—Report: The Swiss Exhibition.
- 7.55—Ländlers.
- 8.5—"In the Waiting-room"—Scenes (Rych).
- 8.55—Missa festiva in Honour of St. Ursus.
- 9.35—Walter Courvoisier Songs by Elsa Scherz-Meister (Soprano), Tüller (Tenor) and Girsberger (Pfte.).
- 10.0—Orchestra, Conductor: Bernhardt.
- 10.30—To-morrow's Programmes.

BORDEAUX-LAFAYETTE

- 1,077 kc/s (278.6 m.); 60 kW.
- Transmits at intervals from 6.30 a.m.
- 7.30 p.m.—Radio Journal; Talk.
- 8.30—Light Musical. Conductor: Rambeaud.
- 9.0—"Joli mois de mai quand reviendras-tu?"—Fantasy.
- 10.30—News.

BRATISLAVA

- 1,004 kc/s (298.8 m.); 13.5 kW.
- Presov, etc. See Sunday.
- Transmits at intervals from 6.30 a.m.
- 5.50 p.m.—News in Hungarian.
- 6.0—Programme in German.
- 7.0—Military Notes; Records.
- 7.10—News; Topical Talk.
- 7.30—Slovak Songs and Dances—Orchestra, Conductor: Schimpl. Blaho-Bartos, J. Blaho, Arnold Fölgl (Singers).
- 9.0—Programme from Turčiansky Svätý Martin; at 9.45—News.
- 10.30—News in Polish; Records.

BRESLAU

- 950 kc/s (315.8 m.); 100 kW.
- Gleiwitz, etc. See Sunday.
- Transmits at intervals from 5.0 a.m.
- 6.0 p.m.—German Poets speak of Italy—Italian Poets speak of Germany.
- 6.20—Schrammel Trio (Recorded).
- 7.0—Topical Report.
- 7.15—Cabaret on Records.
- 8.0—News.
- 8.15—"Musical Narratives"—Choir, Orchestra, etc.
- 10.0—News; Sports Notes.
- 10.30-12.0 m.t.—See Leipzig.

BRUSSELS (No. 1)

- 620 kc/s (483.9 m.); 15 kW.
- 6.30-9.5 a.m.—Records; Gym; News.
- 12.0 noon—Classical Records.
- 12.30 p.m.—Shipping.
- 12.35—Schnyders Band, Records; at 1.0-1.10—News.
- 2.0-2.55—Art Notes; For Schools.
- 4.55—News; Stravinsky Records.
- 5.15—Educational; Records.
- 6.0—Talk: "Liege Exhibition."
- 6.15—Records: Light Music.
- 6.30—Mme Pierre (Songs); Music.
- 7.0—Talk: "Mountain Railways."
- 7.30—News.
- 8.0—Johann Strauss and Oscar Straus Programme. Conductor: Souris. Théodora Lambert (Songs). Part I: Johann Strauss. Egyptian March. Selection, "Die Fledermaus." Frühlingstraum. Part II: Selection, "The Last Waltz" (O. Straus). Part III: Johann Strauss. Tales from the Vienna Woods. Pizzicato Polka. Roses from the South. Ballet, "Ritter Pasman." Perpetuum mobile.
- 9.0—Talk.
- 9.15—Orchestra. Conductor: Souris. Burlesque Overture many.
- (Méhul). Symphony in B flat (Haydn). Divertissement (Lalo). Excerpts, "Padmavati" (Rous-sel-Branga).
- 10.0—News.
- 10.10—INR Jazz Band.
- 10.55-11.0—March (d'Hazet).

- BRUSSELS (No. 2)
- 932 kc/s (321.9 m.); 15 kW.
- Programme in Flemish.
- 6.30-9.0 a.m.—Records; Gym; News.
- 12.0 noon—Records.
- 12.30 p.m.—Sarpa Orchestra, Records; at 1.0-1.10—News.
- 4.55—News.
- 5.0—Mme Van den Broecke (Pfte.).
- 5.30—Records: Light Music.
- 6.0—Talk: "Liege Exhibition."
- 6.5—Malines Chamber Orchestra, Symphonic Suite (Mouret). Violin Concerto in G (Vivaldi). Symphony (Van Malderen).
- 7.0—Talk: "Flemish Universities."
- 7.15—Bach Records.
- 7.30—INR Review.
- 8.0—Operetta Music. Conductor: Walpot. Overture, "La Fille de Madame Angot" (Lecocq). Selection, "White Horse Inn" (Stolz-Benatzky). Waltz, "Die geschiedene Frau" (Fall). Song, "The Merry Widow" (Lehar). Excerpt, "Viktorie and her Hussar" (Abraham). Selection, "Monika" (Dostal).

- 8.45—"Merry-Go-Round"—Play (Van Morkhoven).
- 9.15—Flemish Composers' Music. Conductor: Walpot. Festival Echoes (D'Haeyer). Nocturne (Veremans). La Parade des animaux savants (K. Albert). Crépuscule d'un soir d'été (De Maeght). Petit intermède (Candael). Nocturne fantasque (De Schrijver).
- 10.0—News.
- 10.10-11.0—Records. Fourth Symphony (Schumann). Siegfried-Idyll (Wagner).

BUCHAREST

- 823 kc/s (364.5 m.); 12 kW.
- Relayed by Radio-Romania, 160 kc/s (1,875 m.).
- Transmits at intervals from 6.0 a.m.
- 6.17 p.m.—Records: French Music.
- 6.45—Talk.
- 7.0—Ivan Balan Orchestral Music. Conductor: The Composer.
- 8.10—"Tosca" (Puccini) (Scala Milan Recordings). Conductor: Sabajno; at 8.55-9.15—Poems (Codreanu); at 9.55-10.15—News; Sports Notes.
- 10.45—News (French, German).

BUDAPEST

- 546 kc/s (549.5 m.); 120 kW.
- Transmits at intervals from 6.45 a.m.
- 12.10 p.m.—Band, Conductor: Eördögh; at 12.40—News.
- 1.30—Csorba Cigány Band.
- 2.30—News.
- 4.15—For Schools.
- 4.45—News.
- 5.0—News (Slovak, Ruthenian).
- 5.10—A Trip to San Marino.
- 5.40—Gertruda Konatkowska (Pfte.).
- 6.10—Talk: "Gyula Vargha, Poet."
- 6.45—Toth (Hungarian Songs).
- 7.15—News.
- 7.25—Talk with Records: "Palestrina."
- 8.15—Sports Report.
- 8.25—Band.
- 9.0—Foreign Affairs.
- 9.40—News.
- 10.0—Ilinczyk Jazz Band.
- 10.40—News (German, Italian).
- 10.50—News (English, French).
- 11.0—Opera Orchestra, Conductor: Fridl. Symphony in E flat (Mozart). Suite in F sharp minor (Dohnányi).
- 12.5 a.m. (Saturday)—News.

COLOGNE

- 658 kc/s (455.9 m.); 100 kW.
- Transmits at intervals from 6.0 a.m.
- 5.15 p.m.—August von Othegraven Concert.
- 6.0—Legal Talk; Band Records.
- 7.0—For Girls; Records.
- 7.55—Topical Talk.
- 8.0—News.
- 8.15—News in English.
- 8.30—"Let's be Gay"—a Musical Picture-Book, with the Eysoldt Orchestra.
- 10.0—News.
- 10.15—News in English.
- 10.35-12.0 m.t.—Music from Leipzig.

DEUTSCHLANDSENDER

- 191 kc/s (1,571 m.); 60 kW.
- Transmits at intervals from 6.0 a.m.
- 6.40 p.m.—Oskar Sala (Trautonium).
- 7.0—"Cycle Tour of Greater Germany."
- 7.15—Marga Schindler (Soprano), Christine Fuhrmann (Pfte.), Mischa Ignatjeff (Balalaika).
- 8.0—Motto; News; Weather.
- 8.15—Spanish Music. The Osorio-Arriola Pfte. Duo and Ignacio Sole Aguilar (Songs).
- 9.0—"Alkazar"—Play (Strunk).
- 10.0—News; Weather; Sports.
- 10.20-10.45—Duo in B flat for Violin and Viola (Mozart).
- 11.0—Brahms Concert (Recorded). Berlin "Propsteichor." German Oratorio Choir, Lamy Choral Society, Erk Male Voice Choir and Berlin Municipal Orchestra. Tragic Overture. Funeral Hymn. Schicksalslied.
- 11.45—Records.

FRANKFURT

- 1,195 kc/s (251 m.); 25 kW.
- Cassel, etc. See Sunday.
- Transmits at intervals from 5.0 a.m.
- 6.30 p.m.—Choir; Pfte.
- 7.15—Topical Mirror; Talk.
- 7.45—Records.
- 8.0—News; Horticultural Show Report.
- 8.15 (from Wiesbaden)—International Summer Concerts—I—Romania and Yugoslavia. Wiesbaden Municipal Orchestra. Conductor: Vogt. Giorgia v. Halper-Leppée (Soprano). Part I, Romania. Symphonic Variations on a Romanian Folk Song

- (Balan). Romanian Folk-Dances (Bartók). Part II, Yugoslavia. Scene from "Assan Aga's Wife" (Safarnek-Kavic). Ballet Suite (Baranovic). Festival Overture (Lhotka). Excerpts, "Amphytrion" (Papandopulo). Three Songs with Orchestra (Gotovac). Croat Folk-Song (Lhotka). Kolo from "Eros the Rogue" (Gotovac).
- 10.0—News; Weekly Picture-Book.
- 10.30-12.0 m.t.—See Leipzig.

HAMBURG

- 904 kc/s (331.9 m.); 100 kW.
- Bremen, etc. See Sunday.
- Transmits at intervals from 5.45 a.m.
- 6.0 p.m.—Light Orchestra.
- 6.45—Weather; Shipping.
- 7.0—Talk.
- 7.20—Records: Peter Anders (Tenor).
- 7.55—Sports.
- 8.0—News.
- 8.15—News in English.
- 8.30—"The Lure of Travel"—Sequence (Wintzen). Gertrud Schnitzer (Soprano). Jakschat (Bass-Baritone). Choir, Orchestra and Speakers.
- 10.0—News.
- 10.20—News in English.
- 10.35—Music from Leipzig.
- 12.0 m.t.—3.0 a.m. (Saturday)—See Saarbrücken.

HILVERSUM (No. 1)

- 160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 120 kW from 8.40 p.m.; and Jaarsveld, 722 kc/s (415.5 m.); 17 kW.
- NCRV Programme.
- 7.40 a.m.—Bible Reading; Meditation; Records.
- 10.10—Service; Records.
- 10.55—Hendriks ('Cello) and Stringa (Pfte.).
- 11.40—Police Messages; Weather.
- 11.55—Quintolia Ensemble. In the interval, Records.
- 1.40 p.m.—Records.
- 2.15—Bible Reading.
- 2.40—Mmes S. Both-Haas (Soprano) and J. Rosière v. Emmerick (Contralto); Records in the interval.
- 3.25—Records.
- 3.55—Rotterdam Pfte. Quartet and Kneifer (Bass). Trout Quintet (Schubert). Records. Quartet (Faure).
- 5.10—Records; Weather.
- 6.10—For Gardeners.
- 6.40—Police Messages; Church Notes.
- 6.55—Literary Talk; Records.
- 7.40—News; Request Records.
- 8.40—Talk; A.R.P.
- 9.10—Serenade (Tchaikovsky) by the Arnhem Orchestra. Conductor: Pappenheim.
- 9.40—News; Topical Talk.
- 10.10—Arnhem Orchestra. Driem (Violin). Overture, "Mignon" (Thomas). Violin: Havanaise (Saint-Saëns). Ballet, "Carmen" (Bizet).
- 10.40—Records.
- 11.30-11.40—Bible Reading.

HILVERSUM (No. 2)

- 995 kc/s (301.5 m.); 15 kW until 8.40 p.m.; 65 kW from 8.40 p.m.
- 7.40-9.40 a.m.—VARA Programme; Records.
- 9.40—VPRO Religious Address.
- 10.0-11.40—VARA Programme.
- 10.0—Recitations; Records.
- 10.50—Poems; Records.
- 11.40 a.m.—3.40 p.m.—AVRO Programme.
- 11.40—Records.
- 12.25 p.m.—AVRO Orchestra, Conductor: Kuhlman.
- 1.10—Rita van Kleef (Songs), Willebrandts (Pfte. and Saxophone).
- 1.40—Talk for Women.
- 2.0—Hugo Gordon Music for Two Pftes.
- 2.30—Records.
- 3.10—AVRO Dance Band.
- 3.40-7.10—VARA Programme.
- 3.40—Records.
- 4.10—Fantasia Ensemble.
- 4.40—For Children.
- 5.10—Jong (Organ) and Records.
- 6.10—Art Talk; Records.
- 6.40—VARA Calendar.
- 6.45—Tourist Talk.
- 7.3—Press Review.
- 7.10-8.40—VPRO Programme.
- 7.10—Church Notes.
- 7.15—Religious Address.
- 7.40—de Groot (Pfte.).
- 8.10—Religious Address.
- 8.40-10.20—VARA Programme.
- 8.40—Cabaret with the ABC Ensemble.
- 9.10—Request Records.
- 9.40—Selection, "Melodie der Nacht"—Operetta (Schmiededer), with Erna Eisner (Soprano), Vroons (Tenor) and the Esmeralda Ensemble.

10.10—Press Review.
10.20—VPRO Service.
10.40 till Close Down—VARA Programme.
10.40—Records.
11.10-11.40—Jazz Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s (255.1 m.).
Transmits at intervals from 7.0 a.m.
12.0 noon—Preil's Ensemble.
2.0 p.m.—Talk.
2.45—For Children.
3.0—For Women.
3.30—Finnish Music from St. Paul's Church, Copenhagen.
Copenhagen Motet Choir, Conductor: Harry Enig, Sune Carlsson and John Sundberg (Organ).
Organ Sonata in B flat minor (Granlund). Choir: (a) Excerpts from the Motet, "Jerusalem" (Sjöblom). (b) Hymnus seraphicus (Carlsson). (c) Piece (Palmgren). (d) Kyrie (Dahlström).
Organ: Partita on a Finnish Folk Melody (Sundberg).
Motet (Sundberg). Choir: Four Motets (Solonen).

4.50—Notes; Literary Talk.
5.25—Weather; Exchange; Records.
6.15—Astronomy Talk: June.
6.35—German Lesson.
7.0—Time; News; Talk.
7.30—Foreign Affairs.
8.0—Review by Mogens Davidsen.
8.10—South Jutland Songs by Hvalse School Choir.
8.30—Reading (Jacobsen).
8.50—Alexander Borovsky (Pfte.). Chromatic Fantasia and Fugue (Bach). Nocturne in F sharp (Chopin). Hungarian Rhapsody (Liszt).
9.20—"Gold-tooth Willi wants to be honest"—Crime Play (Ostermoor).
10.10—News.
10.30—Serenade in F (Stenhammar) by the Radio Orchestra. Conductor: Grondahl.
11.10 p.m.-12.30 a.m. (Saturday)—Preil's Dance Band.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
6.20 p.m.—Old Madrigals and Organ Music.
6.50—Talk: The Nation's Food.
7.0—Records; Topical Report.
8.0—News; Weather.
8.15—See Berlin.
10.0—News; Sports.
10.40-12.0 m.t.—Music from Leipzig.

LEIPZIG

785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 5.45 a.m.
6.20 p.m.—Chamber Music.
7.0—Talk.
7.20—Light and Dance Music.
7.50—Topical Review.
8.0—News.
8.15 (from Dresden)—"The Forest"—Orchestra. Conductor: Merten. Edith Hasselmann (Soprano), etc. Overture, "Der Freischütz" (Weber). Songs: (a) Wanderer's Nachtlied (Schubert). (b) Im Walde (Schumann). (c) Waldesgespräch (Schumann). Movements, Forest Fantasia (Zöllner). Pfte.: Waldszenen (Schumann). Symphony, Im Walde (Raff). Songs: (a) Die Einsame (Pfitzner). (b) Waldeinsamkeit (Reger). (c) Im tiefen Wald verborgen (Pfitzner). Pan and Echo (Sibelius). L'après-midi d'un faune (Debussy). In the Forest (Godard). Pfte.: Waldszenen (Schumann). Prelude, "Die KönigsKinder" (Humperdinck). Songs (Brahms). Forest Calm (Dvorák). Forest Murmurs (Wagner).
10.0—News; Weather; Sports.
10.30-12.0 m.t.—Light Orchestra.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
5.30 p.m.—English Talk by "Way-fare".
5.45—Talks; Records.
6.30—Educational; Dialect Programme.
7.30—Radio Journal.
8.15—Robertvyl (Baritone).
8.30—See Paris (PTT).
10.30—News; Exchange; Variety.
11.0 p.m.-12.30 a.m. (Saturday)—See Paris (Radio-Paris).

LISBON

629 kc/s (476.9 m.); 20 kW.
Transmits at intervals from 1.0 p.m.
8.10 p.m.—Music; at 8.30—News.

8.50—Quintet.
9.30—Topical Talk; Songs.
10.0—Concert; at 10.30—Criticism.
11.30—News; Request Music.
12.30-1.0 a.m. (Saturday)—Weather; Dance Music.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon
6.0-6.30 p.m.—"Ticino Independence"—Sequence for Children (Vanina), from Lugano.
7.15—Request Records.
7.50—News.
8.0—Literary and Art Review.
8.15—Descriptive Music—Radio Orchestra.
8.30—"Due gangster"—Sketch (Bianchi).
8.50-10.15—Provincial Programme.

MONTPELLIER (PTT)

1,339 kc/s (224 m.); 1 kW.
Transmits at intervals from 6.30 a.m.
5.35 p.m.—"The Life of Racine"—Play (Mme Leandri-Betou). Music by Francis Missa.
6.15—English Lesson.
6.30—See Strasbourg.
7.0—Radio Journal; Records.
8.0—Theatre Talk.
8.15—Industrial and Social Notes.
8.30—Dramatic and Choral Programme. Part I. "La Marraïne de Chérubin"—Two-Act Play (José Vincent) by the Station Dramatic Troupe. Part II. Montpellier Cathedral and Seminary Boys' Choirs, Conductor: Abbé Carol. "Requiem" (Fauré). Part 3 of "The Messiah" (Handel).
10.30—News; Weather; Records.

MOSCOW

172 kc/s (1,744 m.); 500 kW.
Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW.
See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 6.0 a.m.
7.0 p.m.—Military Band, Chorus.
8.0—Time; News; Weather.
8.15—German Composers, Orchestra. Conductor: Winter. Felice Hüni-Mihacek (Soprano), Strienz (Bass) and Dammert (Soprano). Overture and Aria, "Il Seraglio" (Mozart). Ballet, "Rosamunde" (Schubert). Ballads (Loewe-Pfitzner). Scherzo (Pfitzner). Pfte. Concerto in A minor (Schumann). Aria, "Paradise and the Peri" (Schumann). Festival Overture (Brahms); in the interval, Mörike Poems.
10.0—Time; News; Sports.
10.30-12.0 m.t.—See Leipzig.

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
6.0 p.m.—Old and Modern Dances.
7.0—Light Music; Talk.
7.20—Milan Madrigal Singers.
8.0—Time; News; Topical.
8.30—"Poker di dame"—Operetta (Ettore Bellini).
10.30-12.0 m.t.—Dance Music; at 11.0—News.

NICE-COTE D'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio Journal de France.
7.45—See Paris (PTT).
8.10—See Strasbourg. After the Programme—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Bergen (Askøi), etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.45 p.m.—Old Dances—Folk Band.
6.5—French Lesson.
6.45—News.
7.15—Report on the Football Match, Sweden v. Norway. After the Report, Records.
9.40—News; Topical Talk.
10.15-11.0—Stavanger Radio Orchestra. Norwegian Dance (Grieg). To Spring (Grieg). Humoresque (Kjerulf). Ave Maria (Haaland). Minuet (Vecsey). Elegy (Sibelius). Juanita (Boulangier). Excerpt, "Viktoria and her Hussar" (Abraham). Serenade (Micheli). Frauentanz (Joh. Strauss). March of the Gnomes (Moszkowsky).

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 5 kW.
Transmits at intervals from 10.20 a.m.
7.0 p.m.—Mme de Castro (Pfte.).

and Pierre Fournier ('Cello). Variations (Mendelssohn). Rhapsody in the Russian Style (Bazelaire). Sonatina (Honegger).

7.30—Radio Journal.
8.15—"Dans la rue"—Cantrelle Orchestra.
8.30—"La Semaine Sonore"—Radio Fantasy (P. and R. Constantin Brive) by the Paul Castan Players.
9.0—Chamber Music—Paris Instrumental Quintet and Marise Cottavoz (Songs), etc. Sonata for Flute and Strings (Scarlatti). Cantata, "Léda" (Mouret). Suite en Duo (Cras). Excerpts, "Les Chansons du Monsieur Bleu" (Rosenthal). Quintet (Jongen).
10.30-11.0—News; Records.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
6.0 p.m.—News; Exchange.
6.10—For Youth.
6.34—Talks; Racing; Serial.
7.0—News; Sports; Amusements.
7.12—The Event of the Week.
7.18—Records.
7.49—Three Yvonne Printemps Successes.
8.0—Topical Review.
8.10—Paris Gossip.
8.15—Great Rejoinders.
8.20—"Corsica"—A Musical Trip with the Blaireau Orchestra.
8.35—"Le Café du Domino," with Pauline Carton, Tramel and George.
9.0—To be announced.
12.0 m.t.—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
12.30 p.m.—Robert Buguet (Songs).
12.45—News; Exchange; Records.
1.15—Benvenuti (Pfte.).
1.30—Tourist Talk.
1.35—Orchestra.
2.20—Marie-Thérèse Gauley (Songs).
2.30—For Schools; Records.
3.5—Light Orchestra.
3.45—Jean Fournier (Violin).
4.0—Review of Reviews by Paul Dermée.
4.10—Talk: Housing and Health.
4.25—Orchestra from Alpes-Grenoble (PTT).
5.5—Theatre Notes.
5.20—For Farmers.
5.35—Singing Lesson for Children.
6.5—Operetta Songs by Vona Yola.
6.15—News.
6.30—See Strasbourg.
7.0—News; Records.
7.45—"The World seen by French Writers: 'The Far East' by Claude Farrère.
8.15—Employers' Federation Notes.
8.30 (also Marseilles (PTT), Alpes-Grenoble (PTT) and Lyons (PTT))—Acts I, II, and III, "Pelléas et Mélisande"—Opera (Debussy), from the Conservatoire. Conductor: Ingelbrecht. Cast: Mmes Turba-Rabier, Croiza, and Maruse Cottavoz, MM Jaques Jansen, André Pernet and Pactat.
10.30—News; Exchange.
10.45—Dance Records.

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.30 a.m.—News; Gym; Records.
7.35-7.50—Ministry of Posts reviewed by Pierre Paraf.
8.15—Shipping Notes.
8.30—Time; News; For Women.
9.0-9.10—News.
11.50—Exchange; Water Level.
11.55—Industrial and Social Notes.
12.10 p.m.—Le Marc' Hadour (Songs).
12.25—Industrial and Social Notes; Exchange.
12.45—Time; Radio Journal.
1.5—Programmes.
1.10—Josse Orchestra.
2.0—Dietetics; Talk.
2.15—Genio (Songs).
2.30—Review by Paul Reboux.
2.35—Literary Talk.
2.45—Talk: Paris during the Revolution.
2.55—Exchange; Records.
3.15—Miguel Candela (Violin).
3.30—Mme Thérèse (Songs).
3.45—Talk: "The Exhibition of Decorative Art."
3.55—Raoul Stephan reads.
4.5—Book Talk: "Un aperçu de la guerre d'Espagne" (Général Baron Lejeune).
4.20—Talk.
4.30—Bathori Vocal Trio.
4.45—Alys Lauteman (Harp) and Madeleine Peltier (Pfte.).
5.0—Exchange.
5.5—Quartet (Lazzari) by the Radio-Paris Quartet.

FRIDAY (June 2)

5.45—Educational.
6.0—Economic and Social Notes.
6.15—Skerjane (Pfte.). Pastorale (Konjovic). Yugoslav Suite (Slavenski). Musette (Pinteric). Theme and Variations (Skerjane). Nocturne (Kunc). Two Waltzes (Ravnik).
6.45—Talk: The 150th Anniversary of the French Revolution—Social Doctrines and the Revolution.
7.0—Programmes; Racing.
7.5—Cantrelle Orchestra. Overture, "Le Roi l'a dit" (Delibes). Gavotte (Saint-Saëns). Polish Dance (Scharwenka). Petite Suite (Pierné). Spanish Dance (Fallá). At Church (Tchaikovsky). Song without Words (Tchaikovsky). Trepak (Tchaikovsky). La Chasse fantastique (Guiraud).
7.45—Science Talk.
8.0—Time; Radio Journal de France.
8.30—"Cœur à Cœur"—Three-Act Play (Romain Coolus).
10.30—Records.
10.45—Time; News.
11.0—Concert. Conductor: Rhené-Baton. Doyen (Pfte.). Psyché (Frank). Viviane (Chausson). Effet de nuit (Lazzari). Pfte.: Un dimanche basque (Laparra).
12.30 a.m. (Saturday)—Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.10 p.m.—Scottish and Irish Songs (Beethoven), with Violin, Cello, and Pfte.
6.0—Exchange; Records.
6.20—Catholic Action.
6.30—Light Orchestra. Soprano, Tenor, Xylophone.
7.0—Time; News; Weather.
7.15—Light Orchestra; Talk.
8.10—"The Corn is Growing"—Musical Sequence, with Orchestra.
9.0—Time; News.
9.10—Six Songs (Dvořák).
9.25—String Quartet (Novák), by the Ondříček Quartet.
10.0-11.0—News; Records.

RADIO-EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
1.30 p.m.—Records.
2.30-3.0—For Schools.
5.30—Talk for Women by Florence Murray: "Sandwiches."
5.45—Irish Radio Orchestra. Conductor: Capt. J. M. Doyle; P. J. Byrne (Baritone).
6.45—News.
7.0—Barry Brothers in Musical Variety.
7.20—Pen Pictures of Living Ulster Writers, No. 1—"Studies from Lynn Doyle," by Elizabeth Milne.
7.35—Karel Kostal ('Cello).
8.5—Beal Beo Chonnacht—Máiread Ní Ghráda a stiúir.
8.40—"The Sacred Places of Ireland: Howth"—Talk with Illustrations by L. S. Gogan.
9.0—Dawson and Sillery (Pfte. Duets).
9.20—Nuacht an Lae—Gaelic News.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-LYONS

1,393 kc/s (215.4 m.); 25 kW.
Transmits at intervals from 12.0 noon.
6.45 p.m.—Excerpts, "Don Quixote" (Massenet).
7.0—Topical Talk.
7.10—Harp Solos. Feuille d'Automne (René). Aubade (Hasselmans).
7.20—Amusement Guide.
7.30—Review by Soupiron; Songs.
8.0—Journal Parlé; Marches.
8.30—Dr. Vitamine.
8.45—Waltzes. Allons cueillir des fraises (Martinet). Le mistral en folie (Alton). Dans notre petit nid (Gaudon). Tout est fini (Labarthe). Valse des cols bleus (Mariotti). Musette (Jauniaux). Valse poudrée (Poppy). Isseline (Delbecq).
9.15—Two Plays by the Neichtauser Players: (a) "Deux maîtres dans un domicile, (b) Le tondeur de chiens.
10.0—News.
10.5-11.30—Variety Concert.

RADIO-MEDITERRANÉE

1,321 kc/s (227.1 m.); 27 kW.
Transmits at intervals from 12.15 p.m.
8.10 p.m.—News; "Exchange."
8.16—Film Music.
8.30—Talk; Light Music.
9.0—Talk; Music.
10.15—News; "Request Music."

RADIO-NORMANDIE

1,095 kc/s (274 m.); 20 kW.
6.30 a.m.—Military Band; Press.
7.0—Radio Reveille; Weather; at 7.15—Time.
7.30—Time; Favourite Melodies.
7.45—Around the Metropolis.
8.0—Time; Stars on Parade.
8.15—Time; Dareski's Orchestra.
8.30—French News Bulletin.
8.40—Your Message from the Stars.
8.45—Morning Brightness.
9.0—Time; A Musical Potpourri.
9.30—Radio Favourites.
9.45—Theatre of the Air—Robert Irwin, Elena Danieli, Showland Trio and Percival Mackey's Orchestra.
10.0—Time; Kitchen Wisdom.
10.15—A Programme of Character.
10.30—Military Band.
10.45—Time; Songs we know them by.
11.0—Donald Peers, Cavalier of Song.
11.15—Dream Waltzes.
11.30—Chansonnettes.
12.0 noon—Request Concert; at 12.30-1.0 p.m.—News; Talk.
2.0—Miniature Matinée.
2.30—Listen after Lunch.
2.45—Young Widow Jones.
3.0—Time; Backstage Wife.
3.15—"Stella Dallas," Music.
3.45—Beauty Talks; Music.
4.0—Time; Living Witness.
4.15—Ed and Don, Singing Cowboys.
4.30—"The Open Road."
4.45—Marmaduke Brown and Matilda.
5.0—Time; Balalaika Music.
5.15—For Boys and Girls.
5.30—Home and Beauty.
5.45—Alpine Memories.
6.0—Children's Corner.
6.50—Talk; News; Racing.
7.0—Light Music.
7.30—Maurice Chevalier.
7.45—Talk by M. Michel Brille.
7.50—Topical Review.
8.0—French News Bulletin.
8.15—Azorola (Pfte.).
8.30—Ray Ventura and his Collégiens.
8.40—Talk and Music.
9.0—Garde républicaine Band.
9.35—Chansonnettes.
10.0—Orchestra.
10.30—Humorous Records.
10.45—Dance Music.
11.0—Café Concert.
12.0 m.t.—Melody at Midnight.
12.30-2.0 a.m. (Saturday)—Time; Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
5.30 p.m.—News in English.
5.45—Concert from Nantes. Conductor: Louis Martin. Antiche danze ed arie (Respighi). Two Dances (Poulenc). Intermède (Poulenc). Tunis from "Escales" (Ibert). Impressions de Cornouailles (Vaubourgouin). Overture on Hebrew Themes (Prokofiev).
6.30—For Schools.
7.0—Announcements; Records.
7.30—Radio Journal; Records.
8.10—See Strasbourg. After the Programme, News.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.
Transmits at intervals from 7.30 a.m.
5.0 p.m.—News.
5.15-5.50—Dance Music.
7.0—News in French.
7.18—News in English.
7.40—English Lesson.
8.0—News; Topical; Music.
9.0—The History of Music.
9.30—Topical Talk.
9.45—Melody and Rhythm. In the interval, Talk.
11.0—News.
11.15—Dance Music.
12.0 m.t.—News in French.
12.16-12.30 a.m. (Saturday)—News in English.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
6.0 p.m.—Records.
7.0—Talk; Topical Review.
8.0—Time; News; Weather.

FRIDAY (June 2)

8.15—Village Evening.
9.0—"Illustrated Musical Almanac."
10.0—Time; News; Sports;
Topical.
10.30—Serenade—Else Wiessner
(Contralto). Maria Fougner
(Pfte.).
11.0—Music from Leipzig.
12.0 m't.—3.0 a.m. (Saturday)—
Serenade (Recorded). Part I:
Saarpfalz Symphony Orchestra.
Conductor: Knappertsbusch.
Poldi Mildner (Pfte.). Scherzo
(Pfitzner). Pfte. Concerto in B
flat minor (Tchaikovsky). Part
II: Orchestra. Conductor:
Kasper. Part III: Light Music.

SOTTENS

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s
(748 m.).
12.29-1.45 p.m.—News; Records.
5.0—See Beromünster.
6.0—Records; Announcements;
Sports.
6.40—For Alpinists.
6.50—Weekly Financial Review.
7.5—Football Notes.
7.15—Micro-Magazine.
7.50—News; Weather; Chimes.
8.0—"Nostradamus, le prophète"
—Play (Georges Hoffmann).
9.0—Laszlo Krausz (Viola), Henri
Honegger (Cello), Viola Sonata
(de Fesch). Two Rhythmic Pieces
for Cello (Jaques-Dalcroze).
9.20—Review from Geneva.
9.40-11.30—Records.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.20 a.m.
5.30 p.m.—Illustrated Music Talk:
Musical Forms—The March.
6.0—Records.
7.0—News; Topical Echoes.
7.30—Talk: Foreign Travel.
7.45—Navy Band from Skansen.
Conductor: Widner.
8.30—Foreign Affairs.
9.0—Bo Bergman Programme—
Hilde Nyblom and Ragnar Hultén
(Songs), Kage (Readings), Five
Songs (Rangström). Reading (Bo

Bergman). Songs: Four Stock-
holm Poems (Stenhammar).
9.45—Film Records.

10.0—News; Weather.

10.20—Swedish-Scottish Exchange
Programme: Swedish and Scottish
Folk-Songs and Dances. Sweden:
Septiman Orchestra and Kerstin
Torlind (Soprano). Conductor:
Sven Sköld. Scotland: BBC
Scottish Orchestra. Conductor:
Ian Whyte. (See Scottish
Regional).

10.45-11.0—Swedish Music—Septi-
man Orchestra. Kerstin Torlind
(Songs).

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
5.35 p.m.—French Operetta Music
—Orchestra. Conductor: Bour.
Overture, "Les Mousquetaires
au Couvent" (Varney). Selection,
"Barbe-Bleue" (Offen-
bach). Nocturne (Ganne). Ex-
cerpts, "Coups de Roulis"
(Messager). Overture, "Le Petit
Duc" (Lecocq).
6.15—Industrial and Social Notes.
6.30—Orchestra. Conductor: Bour.
Invitation to the Waltz (Weber).
Overture, "The Merry Wives of
Windsor" (Nicolai). Ballet,
"Milenka" (Blockx). Le Pas des
Fleurs (Delibes).
7.0—Radio Journal.
7.15—News (German).
7.30—Mozart Records. Exultate
Jubilate. Laudate dominum.
8.0—News (French, German).
8.10 (also Rennes-Bretagne and
Nice-Côte d'Azur)—From the
Opéra: (a) "The Damnation of
Faust" (Berlioz), (b) "Le festin
de l'araignée" (Roussel).
11.45—News (French, German).

STUTTGART

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
5.0-8.0 p.m.—Records; Reports.
8.0—News; Horticultural Show
Report.
8.15—Light Orchestral.
8.45—Comic Opera Music—Orches-

tra, Margherita Perras and Maria
Reining (Sopranos), Walter
Ludwig and Peter Anders
(Tenors), Schellenberg and Bit-
terauf (Baritones), Hann (Bass).
Overture, "The Italian Girl in
Algiers" (Rossini). Cavatina and
Aria, "The Barber of Seville"
(Rossini). Overture and Quartet,
"Don Pasquale" (Donizetti).
Overture, "Cosi fan tutte" and
Duet, "The Magic Flute"
(Mozart). Duet, "The Barber
of Bagdad" (Cornelius). Overtu-
re, "La dame blanche"
(Boieldieu).



Margherita Perras, the German
opera star, who is one of the
singers in the broadcast eman-
ating from Stuttgart at 8.45 p.m.

10.0—News; Weather; Sports.

10.30—See Leipzig.
12.0 m't.—2.0 a.m. (Saturday)—See
Saarbrücken.

TOULOUSE (Radio-
Toulouse)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.55 p.m.—News; Sports.
7.5—Orchestra; Sketches.
7.25—Talk; Light Music.
8.0—News; Sketches.
8.30—Songs; Orchestra; Talk.

9.15—"Avoir un bon copain"—
Fantasy.
9.30—Dances; Talk.
10.0—News.
10.15—M. Saint-Paul (Accordion).
11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2
m.); 30 kW. Milan (No. 1),
etc. See Sunday.

Transmits at intervals from 7.30 a.m.

5.0 p.m.—News.
5.15-5.50—Fernanda Scarpellini
(Pfte.).

7.20—Weather; Records.

7.40—English Lesson.

8.0—News; Topical; Records.

8.36 (Milan (No. 1) and Rome

(No. 2) only)—News in German.

9.0—"Un vecchio ragazzo"—

Three-Act Play (Adami).

10.30—Calace Quintet, Suite Con-
ventuale (Giachetti). Scherzo
(Cherubini). I tre canti dell'an-
gelo (Paribeni).

11.0—News.

11.15-12.0 m't.—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.

Transmits at intervals from 6.0 a.m.

4.0 p.m.—Orchestra. Conductor:

Pehm. Uhlentuf (Violin). Overtu-

ture, "Hans Sachs" (Lortzing).

Andante, Fifth Symphony (Schu-

bert). First Movement, Violin

Concerto in D (Tchaikovsky). Suite

No. 2, "L'Arlesienne" (Bizet). Symphonic March Music

(Robert Ernst).

5.0—Talk.

5.10—Orchestra. Conductor: Pehm.

6.0—"Master Paul's Wishes"—

Play (Bachmann).

6.30—Film Notes.

6.45—Folk-Music.

7.30—Topical Review.

7.50—News (Ukrainian).

8.0—News; Weather.

8.15—"The Provincial Town"—

Humorous Play (Scheibelreiter).

9.0—Vienna Symphony Orchestra.

Conductor: Nilius. Alsen (Bass).

Prelude, "Fredigundis" (Franz

Schmidt). Songs (R. Strauss):

(a) Das Tal, (b) Der Einsame.

Love Song, "Das Herz" (Pfitz-

ner). Songs (Beethoven): (a)

Prüfung des Küssen, (b) Mit

Mädchen sich vertragen. Two
Movements, "Aus Italien" (R.
Strauss).

10.0—News.

10.20—Orchestra (contd.). Overture

"La scala di seta" (Rossini).

Aria, "Sicilian Vespers" (Verdi).

Prelude to Act I, "La Traviata"

(Verdi). Confutatis, Bass Solo

from the "Requiem" (Verdi).

Venetian Suite (Wolf-Ferrari).

11.0-12.0 m't.—Dance and Light

Music.

WARSAW

224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.

Transmits at intervals from 6.30 a.m.

3.30 p.m.—Lwów Station Orches-

tra. Conductor: Serebinski.

4.0—News; Industrial Notes.

4.20 (from Lwów)—For Invalids.

4.35—Viennese Chamber Music by

Natter and Kmita (Violins).

Szaleski and Trzosek (Violas) and

Adamska (Cello). Quartet in E

flat (Haydn). Quintet in D

(Mozart); at 4.55—Talk.

5.45—Technical Letter-Box.

6.0—Disney Film Records.

6.30—Old Polish Tales.

7.0 (from Wilno)—Orchestra. Con-

ductor: Szczepanski. Bortnowska

(Soprano) and the Heinal Vocal

Quartet. Overture (Scheinflug).

Vocal Quartet: Songs (Schumann,

Schubert). Dorfschwalben aus

Oesterreich (Strauss). Berceuse

(Miklaszewski). Soprano: (a)

Veni Creator (Niewiadomski), (b)

Spanish Song (Delibes). Izbecki

(Maklakiewicz). Excerpt,

"L'albun de mai" (Paderew-

ski). Dream Melody (Prosnak).

Soprano: (a) May Night (Kotar-

binski), (b) Song of the Nightin-

gale (Pacius), (c) Spring (Mendels-

sohn). Schmetterlingspiele (Leo-

pold). Intermezzo (Becce).

Waltz (Pick-Mangiagalli).

7.30—Military Talk.

8.0—For Country People.

8.15—"Macbeth"—Opera (Verdi)

from the Festival Theatre,

Glyndebourne. In the intervals,

News; Programmes; Recitations.

10.55—Press Review; News.

11.5-11.15—News in French.

SATURDAY June 3

National

For Time Signals, see Monday.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45—"Some Doings of the

Week:" Mrs. Winttingham.

11.0—Records.

11.30—Morgan Nicholas (Pfte.).

12.0—Toni and the North Pier

Orchestra. 12.30 p.m.—Records.

1.0—Cricket commentaries.

1.30—Aston Hippodrome Orchestra.

2.30—Marie Hall (Violin); Pauline

Baring (Pfte.).

3.0—Songs of the Ukraine.

3.30—Display by the London Fire

Brigade and Auxiliary Fire Ser-

vice in the presence of Their

Royal Highnesses The Duke and

Duchess of Kent, from Hyde

Park.

4.0—Syd Seymour's Madhatters.

5.0—Records.

5.30—Cricket commentaries.

6.0—The First News.

6.30—Saturday talk on Sport.

6.45—BBC Military Band.

7.30—"G-Men Against Crime."

8.0—Music-Hall.

9.0—The Third News.

9.30—"American Commentary:"

Raymond Gram Swing.

9.45—"Saturday at Nine-Forty-

Five:" The BBC Theatre Or-

chestra. Conductor, Stanford

Robinson. Norman Allin (Bass).

10.50—Six-Day Bicycle Race.

11.5—Joe Loss' Band.

11.50-12.0—News Summary.

London Regional

(342.1 m.)

For Time Signals, see Monday.

10.15 a.m.—National.

10.45—BBC Scottish Orchestra.

11.25—The Scottish Country.

12.0—Stuart Barrie (Cinema Organ).

12.25 p.m.—Ian Sadler in "Solo

Flight." 12.40—"Science Re-

view."

1.0—Marie Dare String Quartet.

2.0—Records.

2.30—Sidney Torch (Cinema

Organ).

3.0—Midland Automobile Club Hill

Climb at Shelsley Walsh.

3.30—New Georgian Trio.

4.0—BBC Orchestra (Section C),

conducted by Joseph Lewis;

Joseph Farrington (Bass).

5.0—The Children's Hour.

6.0—Records.

6.20—New London Trio.

6.55—"The Voice of Essex."

7.20—Bulletin for Farmers.

7.30—Handel Festival Concert,

with Isobel Baillie (Soprano);

Frank Titterton (Tenor), Orches-

tra and Chorus, conducted by

Sir Henry Wood.

8.0—BBC Orchestra (Section B),

conducted by Sir Hamilton

Harty.

9.0—Jack Hylton's Band.

9.45—"Crossing the U.S.A. by

Car:" G. T. Swann.

10.15—News and News talks in

German. 10.45—Fourth News

and News from Canada.

11.5-12.0—Joe Loss' Band.

Midland

(296.2 m.)

10.15 a.m.—Regional.

5.0 p.m.—The Children's Hour.

6.0—Don Rico and his Gipsy Girls'

Band.

6.45—Humour in Music Making,

with Ruth Naylor, Ethel Williams

(Sopranos), Constance Shacklock

(Contralto), Jan van der Gucht

(Tenor), Leyland White Barito-

tone, Ronald Stear (Bass), BBC

Midland Orchestra, conducted by

Eric Warr.

7.40—British National Songs and

their Stories—"The British

Grenadiers." 8.0-12.0—Regional.

Stagshaw

(267.4 m.)

10.15 a.m.—12.0 m't.—North.

North

(449.1 m.)

10.15 a.m.—Regional.

5.0 p.m.—The Children's Hour.

6.0—Gramophone Album.

6.30—Jos. Q. Atkinson's Quintet.

7.0—"Shorty Brown," short story.

7.20—Northern Announcements.

7.30—BBC Northern Orchestra:

Thomas Matthews (Violin).

9.0—Regional. 9.45—Mock Air

Raid.

10.0-12.0—Regional.

West

(285.7 m.)

10.4

BRESLAU

950 kc/s (315.8 m.); 100 kW.
Gleiwitz, etc. See Sunday.
Transmits at intervals from 5.0 a.m.

12.0 noon—Orchestra. Conductor: Weissaupt. Niesch and Bock (Pfte. Duos); at 1.0-1.15 p.m.—Time; News.

2.0—News; Exchange.

2.10—Records: Light Music.

3.0—"Children's Country Holidays"—Programme for Girls.

3.30—Records: Light Music.

3.45—Reading.

4.0—Marches from the Silesian Hitler Youth Camp—Military Bands (Recorded).

5.0—Light Orchestra. Conductor: Topitz. Krams (Violin), Grund and Prause (Clarinet).

6.0—"Der Norden lacht—wir lachen mit"—Humorous Sequence (Krause-Rösler).

7.0—See Deutschlandsender.

7.15—"The Instruments' Rendezvous" (Wittkowski). Vera Remann and Johanna Steinke (Recorders), Fritz Binnowski (Viola da Gamba), Georg Tesche (Guitar), Kurt Hattwig (Harpichord).

8.0—News.

8.15—"Der bunte Teller"—Records.

9.0—Concert from Stuttgart.

10.0—News.

10.15—Topical Talk.

10.30-12.0 m.t.—Dance Music from Munich.

BRNO

922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 5.35 a.m.

7.45 p.m.—"Sons of the Soil"—Descendants of Old Peasants Families at the Microphone.

8.0—Variety. Orchestra, etc.

10.0—See Prague.

10.10—News in German.

10.20-12.0 m.t.—Music from Prague.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW.
6.30-9.0 a.m.—Records; Gym; News.

12.0 noon—Records.

12.30 p.m.—Weather; Shipping.

12.35—Loiseau Orchestra, Records; at 1.0-1.10—News.

1.55—Art Notes.

2.0—For Women.

2.35—Musette Records.

3.0—Concert. Conductor: Ledent. Dumortier (Pfte.). Egmont Overture (Beethoven). Unfinished Symphony (Schubert). Pfte. Concerto in C minor (Rachmaninoff). 1812 Overture (Tchaikovsky).

4.30—Johann Strauss Records.

4.55—News.

5.0—Tourist Talk.

5.15—Dance Records.

5.30—Reading (Olympe Gilbart).

5.40—Dance Records.

6.0—Talk: "Industrial Liège."

6.15—Cloetens Music (on Old Instruments).

6.30—Reading (Toussell).

6.45—Madeleine Wibin (Songs).

7.0—Reviews: (a) Hygiene, (b) Week-end Outings; Interview.

7.15—Film Records.

7.30—News.

8.0—Wallon Cabaret: "Au gay village"—Fantasia (André Robert).

8.30—Folk-Songs—Charles Panzéra (Baritone), Magdeleine Panzéra-Baillet (Pfte.). De grand matin me suis levé. La Pernette. Dans la tour du Palais. La Farandole Joyeuse (arr. d'Indy). La Falira, don daine. Le mari jaloux. Bon cidre doux ou as-tu cru? Quand j'étais chez mon père (arr. Moullé). Le vigneron. Noël (arr. Masson).

9.0—Programme from Liège Water Exhibition—Concert, with INR Choir and Symphony Orchestra, Conductor: Gason; Michot (Violin). Ballet Suite (Grétry). Talk: "Liège and District." Ballad and Polonaise for Violin and Orchestra (Vieuxtemps). Commentary by Paul Lévy: Liège Water Exhibition. Diversification on Wallon Folk Airs (Clockers). Brabançonne (Van Campenhout).

10.0—News.

10.10—Omer Orchestra from the "Boeuf sur le Toit."

11.0-12.0 m.t.—Records. Jupiter Symphony (Mozart). Scene II, of Act III, "Lohengrin" (Wagner). Overture, "Sakuntala" (Goldmark).

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.

6.30-9.0 a.m.—Records; Gym; News.

12.0 noon—Flemish Records.

12.30 p.m.—Weather.

12.31—Orchestra. Conductor: Douliez; at 1.0-1.10—News; Shipping.

1.30—Johann Strauss Records.

1.55—Financial Notes.

2.0—Wireless Notes.

2.5—Le Sacre du Printemps (Stravinsky); Commentary by Rombauts.

2.55—Monteverdi Records.

3.0—INR Jazz Band.

3.30—Nuyts (Cello). Sonata in G (Bréval). Chants russes (Lalo). Rhapsodie Fantasia (Jongen).

4.0—INR Jazz Band.

4.30—Irene Van Rijsselberghe (Pfte.). Pastorale (Scarlatti). Toccata (Paradies). Sonata in D (Haydn).

4.45—Talk.

5.0—Irene Van Rijsselberghe (Pfte.). Festival in Cordova (Turina). Seville (Albeniz). Andalusia (Falla); Announcements.

5.15—For Women.

6.0—Popular Orchestra. Conductor: Douliez, Yvonne Maes (Songs), and Records. Overture, "The Land of Smiles" (Lehar). Songs (Russe, Kreuder, Brühne). Waltz (Holländer). Record of Louis Noiret. Rhythm of the Clock (Hunt-Kane). Songs (Wrubel, Benatzky, Märker). March of the Wooden Soldiers (Pierné). Record of Charles Trenet. In a Persian Market (Ketelbey). March (Hruby).

7.30—News.

8.0—Records.

8.10—Folklore (arr. Heyns)—van Schoeland (Songs), Steurs (Accordion).

8.30—Flemish Music Festival from Liège Water Exhibition. Conductor: Marsick. Rhapsodie dahoméenne (De Boeck). Elevation du cœur (Mortelmans). Symphony (Schrey).

9.10—Jenny van Santvoort (Readings).

9.25—Symphony Concert from Liège Water Exhibition. Conductor: Marsick, Wagemans (Violin). Violin Concerto (Mendelssohn). Excerpt, "Palliatier" (Alpaerts). Fontaine de Plaine (Meulemans). Excerpt, "La Pacification de Gand" (Benoit).



Charles Panzéra, one of the great baritones of the day. This evening he will broadcast a programme of French folk-songs from Brussels No. 1 at 8.30 p.m.

10.15—News.

10.25—Brenders Jazz Band.

11.0-12.0 m.t.—Casino Records. Marche héroïque (Saint-Saëns). Pfte. Concerto in C (Beethoven). Excerpts, "Romeo and Juliet" (Berlioz).

BUCHAREST

823 kc/s (364.5 m.); 12 kW.
Relayed by Radio-Romania, 160 kc/s (1,875 m.).

Transmits at intervals from 6.0 a.m.

6.17 p.m.—Talk: "Venice."

6.32—Records.

7.0—Talk.

7.15—Stadelmann (Organ) and Naraja (Songs) from the Evangelical Church.

8.0—Letter-box.

8.15—American Music, Conductor: Ghiga.

9.0—News; Sports Notes.

9.15—American Music, Conductor: Ghiga.

9.30—Dance Records.

10.0—News.

10.15—Restaurant Orchestra.

10.45—News (French, Italian, English).

BUDAPEST

546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.

12.10 p.m.—Report from Szeged: Opening of the Trade Fair.

12.40—News; Records.

1.30—News.

4.20—Fairy-tales.

4.45—News.

5.0—News (Slovak, Ruthenian).

5.10—Talk: Experiences of a Hungarian Emigrant.

5.40—Hungarian Songs by Mária Nagy and the Rác Cigány Band.

6.15—Talk: The International Football Match, Italy v. Hungary.

6.50—Talk: The Czech Soldier.

7.15—News.

7.25—Dance Records.

8.5—A Play.

9.40—News.

10.0—Station Band. Overture, "Der Götergatte" (Lehar). Tone Picture (Losonczy). Selection, "Die Puppenfee" (Bayer). Waltz, Prince Bob (Huska). Three Dances (German). Operetta Potpourri (Künneke).

10.40—News (German, Italian).

10.50—News (English, French).

11.0—Bura Cigány Band.

12.5 a.m. (Sunday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.

2.0 p.m.—News.

2.10—Week-end Concert on Records.

3.15—"A Norwegian Journey"—On Board the KdF Steamer Sierra Cordoba.

4.0—Station Orchestra and Soloists.

5.30—Sports.

5.45—Günther Krone (Violin), Paul Preuss (Cello), Liselotte Müller (Pfte.). Allegro and Minuet from the Trio in D (J. C. Bach). Arietta in B minor (Buxtehude).

6.0—Talk.

6.35—"Flog ein kleiner Vogel..."

6.45—The Reich Agricultural Show, 1939.

7.5—Eysoldt Orchestra. Maria Dahmen (Soprano), Willy Schneider (Bass-Baritone), Leo Prümper (Violin). Overture (Scassola). Violin: Concert Piece (Kaschubec). Serenade (Künneke). Hajoh! wer fährt mit? (Grothe). Intermezzo from Tänzerische Suite (Künneke). Love Song (Becke). Ständchen (Heykens). Suite, Feiertage (Fischer).

8.0—News.

8.15—News (English).

8.30—Eysoldt Orchestra. Maria Dahmen (Soprano), Willy Schneider (Bass-Baritone), Leo Prümper (Violin). Romantic Prelude (Richardt). Lullaby (Culotta). Autumn Gold (Brusso). Serenade, "Les Millions d'Arlequin" (Drigo). Unter dem Sternenzelt (Roland). Finale from "Das Blumenwunder" (Künneke).

9.0—"Rossini"—A Biographical Tableau with Records.

10.0—News.

10.15—News (English).

10.35—Hagedstedt Orchestra.

12.0 m.t.—Records: Light and Dance Music.

2.0-3.0 a.m. (Sunday)—Concert from Hamburg.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
Transmits at intervals from 6.0 a.m.

1.45 p.m.—News.

2.0—Variety and Records.

3.0—Weather; Markets; Exchange.

3.15—Records of Corni Ostermann and Rosita Serrano.

3.55—Programmes.

4.0—Dobrincht Orchestra; at 5.0-5.10—Reading.

6.0—Contemporary Music—The Silesian String Quartet. Ludwig Hoelscher (Cello), Willi Hülser (Pfte.) (Recordings of a Reich Music Festival Concert, Düsseldorf, 18th May).

7.0—Report: The Greater Germany Cycle Tour—Third Lap, Cottbus-Breslau.

7.15—Variety—Held Band, Elisabeth Kah-Sörensen, Augusto Garavello. In the interval, "Curiosity Corner," by Peter Horn.

8.0—Motto; News.

8.15—See Stuttgart.

10.0—News; Sports.

10.20-10.45—Concerto (Westermann) by Emil Seiler (Viola) and the Ristenpart Chamber Orchestra.

11.0-12.0 m.t.—Concert from Vienna.

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.

Transmits at intervals from 5.0 a.m.

12.0 noon—Workers' Concert from Schaffheim. Accordion Band and Choirs.

1.0 p.m.—Time; News.

SATURDAY (June 3)

1.15—See Vienna.

2.0—Time; News.

2.10—"Summer Fashion Show"—Records.

3.0—Weekly Picture Book.

3.15—Talk.

3.30—"Pages from Young Girls' Diaries"—Songs and Tales.

4.0—Light Orchestra. Conductor: Hauck. Hannele Frank (Soprano), Willmann (Tenor), Schröter (Pfte.).

6.0 (from Cassel)—"Memories of 1914"—Concert for the Greater Germany Ex-Servicemen's Rally. Soldiers' Chorus. Conductor: Dehmelt. Military Band, Conductor: Steinkopf. March, O Deutschland hoch in Ehren (Reckling). Patriotic Overture (Schwiening). Soldiers' Song. In der Heimat, da gibt's ein Wiedersehen. Muss i denn zum Städtele hinaus (Lindemann). Schatz, ach Schatz, reise nicht so weit von hier. March, Deutschlands Waffenehre (Blankenburg). Heimat, ach Heimat. March, Preussens Gloria (Piefke). Drei Lilien, drei Lilien. March, Was blasen die Trompeten (Heuer). Soldiers' Song, Morgenrot. March, Mit Vollandpfe voraus (Urbach). Auf Matrosen, die Anker gelichtet (Pohlentz). March, Unsere Marine (Thiele). Morgen marschieren wir in Feindesland. Lied vom Argonnenwald (Schlott). In Hessen liegt ein Städtchen (Dittmann). Sedan-Marsch (Lange). Drüben am Wiesenrand. March, O Deutschland hoch in Ehren (Reckling).

7.15—Topical Mirror.

7.30—Theatre and Film Review.

8.0—Time; News.

8.15—See Stuttgart.

10.0—Time; News; Sports.

10.30-12.0 m.t.—Dance Music from Munich.

HAMBURG

904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday.

Transmits at intervals from 5.45 a.m.

2.0 p.m.—News.

2.20—Musical Variety.

3.0—Shipping; Markets.

3.20—Records.

4.0—See Leipzig.

6.0—"The Storming of Fort Vaux" (June 2, 1916).

6.30—Folk Songs from the Deutsches Haus, Flensburg; "Flensburger Wanderkantorei"; Conductor: Ilse Struck. Wenn alle Brünnelein fliessen. Steh auf hohem Berge. Ein Schifflein sah ich fahren. Es geht wohl zu der Sommerszeit. Grünet die Hoffnung. Der hat hingeben.

6.50—Weather.

7.0—"Under the Village Lime-tree"—Country Songs and Dances by a Hitler Youth Ensemble and Band. Conductor: Stapleberg.

7.45—Things we seldom notice.

7.55—Sports.

8.0—News.

8.15—News in English.

8.30—"Maikätzchen-Maikätzchen"—Light Music (Königsberg Station Recordings). Station Orchestra. Conductor: Wilcken. Station Dance Band. Conductor: Börschel. Peter Arco, Hans Hellhoff, Else Wolff, Franz Wolff and Peter Dorn.

10.0—News.

10.20—News in English.

10.35—Dance Music from Munich. In the interval, Report from Kiel: The German Skittles Championship.

12.0 m.t.-3.0 a.m. (Sunday)—Serenade, Part I. Dance Music. Station Orchestra. Conductor: Hoffmann. Part II. Light Music. Station Choir. Conductor: Gregor. Station Orchestra. Conductor: Secker. Part III. Military Band. Conductor: Kröning.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW
until 8.40 p.m.; 120 kW. from 8.40 p.m.; and Jaarsveld, 722 kc/s (415.5 m.); 17 kW.

KRO Programme.

7.40-8.55 a.m.—Records.

9.40—Records.

11.10—Religious Address.

11.40—Police Messages.

11.55—KRO Orchestra. Conductor: v. t. Woud. Bonsel (Piccolo Flute). The Crusader (Souza). Les fables de La Fontaine (Mouton). Glück muss man haben (Krüger-Hanschmann). Piccolo Flute: The Canary (Sabathil). Schlummerliedchen (Lautenschläger). Ständchen am

Morgen (Lautenschläger). Ballet, "Undine" (Lortzing).

12.40 p.m.—Records; at 12.55—Homing-Pigeon Notes.

1.0—KRO Orchestra (cont.). Overture, "Der Freischütz" (Weber). Lyric Suite (Grieg). Salut d'amour (Elgar). The Merry Doll (Boulanger). Overture, "Pique Dame" (Suppé).

1.40—For Young People; Records.

2.25—For Children.

3.40—HIRO Programme: Records, and Talks by MM. Bogaard, Kuipers and Veenhuizen.

4.40—Records.

4.55—Sports Review; Records.

5.25—Children's Choir; Records.

6.0—Press Review; Records.

6.40—Police Messages.

6.55—Address: Sound News.

7.40—News; Announcements.

7.55—Meditation and Music.

8.15—Records.

8.25—Variety Concert. The Two Western Minstrels Ensemble, KRO New Style Artists, and Han Beuker.

10.10-11.40—News; Records.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 15 kW
until 8.40 p.m.; 65 kW from 8.40 p.m.

7.40 a.m.—VARA Programme; Records; Weather.

9.40—VPRO Service.

10.0 a.m.-7.10 p.m.—VARA Programme.

10.0—For Night Workers: Records; Readings; Fantasia Ensemble; Jong (Organ).

11.40—Records; Weather.

1.40 p.m.—Film Talk; Records.

2.40—Commentary on the Motoring Grand Prix at Zandvoort.

3.10—VARA Orchestra. Conductor: Tiggers; Judith Toft (Soprano). Jo Kolvers (Pfte.) (Recorded). A Somerset Rhapsody (Holst). Kadisch (Ravel). Three François Villon Ballads (Debussy). Pfte. Concertino (Kolvers).

4.10—Talk.

4.25—Esmeralda Ensemble.

5.10—Weekly Film Review.

5.40—For Socialist Youth; Weather.

6.10—Commentary on the Motoring Grand Prix at Zandvoort.

6.40—VARA Calendar; Greetings.

6.50—Political Review.

7.10-7.40—VPRO Talk.

7.45 till Close: VARA Programme.

7.45—SOS Messages; News; Notes.

8.0—"De grote Kermis-Revue," from the Gooiland Theatre, with the Ric, Rac, and Rot Trio, Murilloffs Ballet Girls, and an Orchestra. Conductor: Julius Susan.

9.40—Puzzle Programme; Records.

10.5—News.

10.15—"De Grote Kermis-Revue" (contd.).

11.10-11.40—Cor Steijn (Organ). Russian Fantasia (Anon.). Bunter Rhythmus (Eberle-Steijn). Tavern Tales (arr. Steijn). Socialist Song Potpourri.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s (255.1 m.).

7.0 a.m.—Time; Gym.

8.30-8.55—Copenhagen Cathedral Service.

10.15-10.45—For Schools.

10.58—Weather; Fish Markets.

12.0 noon—Horn Ensemble. Conductor: Christensen. Rosa Pahl (Songs). Hungarian Notes. (Möller). Overture, "Titus" (Mozart). Waltz, The Blue Danube (Strauss). Excerpts, "Hamlet" (Thomas). The Phantom Brigade (Myddleton). Wedding Day at Troldhaugen (Grieg). Excerpt, "Heksen" (Enna). March, Stars and Stripes (Souza). Love Songs (Reger). March (Lenhardt). Excerpt, "Elverhøj" (Kuhlau). Waltz, "Gipsy Love" (Lehar). Torch Dance (Meyerbeer). Excerpt, "Si j'étais roi" (Adam). Finale, "La Juive" (Halévy). By distant Shores (Anon.). Bacchus Gallop (Lumbye).

2.0 p.m.—Records.

2.30—Orchestra. Conductor: Grondahl. Overture in the Italian Style in C (Schubert). Selection, "La vie Parisienne" (Offenbach). Excerpt, "Die drei Pintos" (Weber). Andante con moto from the Serenade for Strings (Suk). Russian Dances (Tcherepnin). Toréador et Andalouse (Rubinstein). Danish Rhapsody (Olsen). Suite, "Lack-schmi" (Ludolf Nielsen). Rebild Hills (Schroder); at 3.20—Reading.

SATURDAY (June 3)

4.30—For Children.
5.0—Talk: Five New Land Laws.
5.25—Weather; Exchange; Markets.
5.50—Records.
6.15—Talk: "Individual Tuition."
6.35—French Lesson.
7.0—Time; News.
7.30—Talk: "Children's Holidays."
7.45—Discussion: "The Surgeon's Responsibility."
8.0—Orchestra. Conductor: Tuxen.
Overture, "Fête galante" (Schierbeck). Suite, "Callirhoe" (Chaminade). Danish Nursery Rhyme Suite (Riisager). Marche héroïque (Saint-Saëns).
8.45—General Knowledge Contest between Telephonists and Typists.
9.20 p.m.—2.0 a.m. (Sunday)—Radio Ball for the Younger Generation.
9.20—Preil's Dance Band and the Golden Blonde.
10.0—News.
10.20—Preil's Dance Band and Records.
12.0 m.t.—Chimes.
12.1 a.m. (Sunday)—Jensen Band and Carlo Thomsen's Rhythm Quartet from the Arena.
1.0-2.0—Wivex Band.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon—Orchestra. Conductor: Wilken; at 12.55 p.m.—Time; News.
2.0—News.
2.10—Anniversaries.
2.15—Variety.
2.55-3.0—Exchange.
3.30—Talk.
4.0—See Leipzig.
6.0—Sports.
6.25—"Die Jungfernauktion"—Play about Love and Jealousy.
7.0—See Leipzig.
8.0—News.
8.15—"Buds and Blossoms"—A May Evening (arr. Heidemann). Dance Band. Conductor: Börschel. Berlin Radio Quartet, Blacky Hübner and Konrad Dähn (Pfte. Duo).
10.0—News; Sports.
10.40-12.0 m.t.—Orchestra. Conductor: Wilken.

LEIPZIG

785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 5.45 a.m.
2.0 p.m.—Time; News; Exchange.
2.15—Records.
3.20—"Angling Competition I"—Programme for Children by Ilse Obbrig and her Playmates.
3.50—Time; Weather; Markets.
4.0—A Jolly Week-end—Orchestra. Conductor: Kretzschmar. Station Choir and Fricke Band. Margot Guillaume (Coloratura-Soprano), Carlsent Ortwien (Pfte.).
10.0—News; Sports.
10.30-12.0 m.t.—Dance Music from Munich.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
4.0 p.m.—"La voix d'une blonde"—One-Act Play (de Bérès).
4.25—Records.
4.30—Amateurs' Programme.
5.30—Records.
5.45—Lips (Accordion).
6.0—Talk: Child Psychology.
6.10—Sports; For Housewives.
6.30—Talk.
7.0—For Women.
7.30—Radio Journal de France.
8.15—Mme Devos-Jacques (Harp). Theme and Variations (Fournier). Piece de concert (Büsser).
8.30—"Le duel"—Three-Act Play (Lavedan).
10.30—News; Weather.

LISBON

629 kc/s (476.9 m.); 20 kW.
Transmits at intervals from 1.0 p.m.
7.30 p.m.—News; Music; at 8.0—Talk: "The Constitution."
8.30—News; Home Affairs.
9.0—Music; at 9.30—Talk.
10.0—Programme in German.

10.30—Variety; at 11.30—News.
12.30-1.0 a.m. (Sunday)—Weather; Dance Music.

LYONS (PTT)

648 kc/s (463 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
4.25 p.m.—Orchestra. Conductor: Babin. Overture, "The Merry Wives of Windsor" (Nicolai). Ballet, "Coppélia" (Delibes). Divertissement sur des chansons russes (Rabaud). Valse triste (Sibelius).
5.5-6.15—See Paris (PTT); at 5.20—Talk.
6.15—Records; at 6.30—Radio-Gazette.
7.0—Radio Journal de France.
7.45—Guitar Records.
8.5—Talk in Serbo-Croat; Talk.
8.30—Orchestra. Conductor: Babin. Overture, "Le roi d'Ys" (Lalo). Suite funambulesque (Büsser). Le minaret (Léopold). Chevalier Potpourri (Salabert). Nutcracker Suite (Tchaikovsky). Gold and Silver (Lehár). A Continental Cocktail (Carlos). Arabesque (Debussy). Danse macabre (Saint-Saëns). Scènes italiennes (Godard). Selection, "Die Tere-sina" (O. Strauss).
10.30—News; Dance Records.
11.15—News (German).

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
12.0 noon—Records.
12.29-1.30 p.m.—News; Records.
5.0—Amelia Anastasi and Giuseppina Pozzi (Two Pfes.). Sonata in B flat (Clementi). Etude (Schumann). Waltz (Strauss).
5.15—Comic Opera Arias by Fernando Corena (Bass), Nino Herschel (Harpischord). Arias, "La serva padrona" (Pergolesi). "Giannina e Bernardone" (Cimarosa). "I finti amori" (Guglielmo). "La serva padrona" (Pergolesi).
5.25—Amelia Anastasi and Giuseppina Pozzi (Two Pfes.). Slav Dance (Dvorák). Allegro festivo (Jesinghaus-Galli).
5.40—Dance Music from the Swiss National Exhibition.
6.0—Review of the Week.
6.15—Film Review with Records.
6.45—Records.
7.15—Talk: Jenatsch.
7.30—Records.
7.50—News.
8.0—"Chi pensa minga prima in ultim al sospira! Three-Act Play in Dialect (Glaucio).
8.45—Saturday Evening Variety.
9.45-10.30—Dance Music from the Swiss Exhibition.

MOSCOW

172 kc/s (1,744 m.); 500 kW.
Programme not received.

MOTALA

216 kc/s (1,389 m.); 150 kW.
See Stockholm.

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 6.0 a.m.
2.0 p.m.—News; Exchange; Sports.
2.25—Records.
3.40—Reading.
4.0—See Frankfurt.
4.0—Time; Weather; Markets.
6.0—Talk: Flaischlen Programme.
6.10—Caesar Bernd (Contralto), Fritz Hübsch (Pfte.).
6.45—Topical Talk.
7.0—Variety on Records.
8.0—Time; News.
8.15 (from Nürnberg)—Radio Revue from the Frankenhalle. Orchestras. Conductors: Backer and Schwarz. Military Band, Conductor: Brandt. Lillie Claus (Soprano). Herbert Ernst Grah (Tenor). Oskar Paulig (Entertainer). The Three Nehrings (Marimbaphones). Nikolai Sinkowsky (Balalaika).
10.0—Time; News; Sports.
10.20—"Dancing into Sunday!" Dance Band. Conductor: Ranftl. Orchestra. Conductor: Mihalovic. Margot Saldern (Entertainer).
12.0 m.t.-3.0 a.m. (Sunday)—See Hamburg.

NAPLES GROUP

Naples (No. 1), 1,303 kc/s (230.2 m.); 10 kW. Florence (No. 1), etc. See Sunday.
7.30 a.m.-5.50 p.m.—See Rome Group.
6.0—Cantastorie Quartet.
7.0—Music; Talk.

7.30—Nanny Annibali (Mezzo-Soprano).
8.0—Time; News; Topical.
8.30—Viennese Waltz Records.
8.55—Concert. Conductor: Gaudiosi. Overture, "Othello" (Rossini). Prélude, Menuet and Clair de lune (Debussy). Quadri rustic (Sonzogno). Three Men (Coates).
9.40—"Melody and Rhythm."
10.15-12.0 m.t.—Dance Music; at 11.0—News.

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Radio-Journal de France; Weather.
7.45—See Paris (PTT).
8.15—News (Italian).
8.30-10.30—Programme from Strasbourg.
10.30—News (French, Italian).

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Bergen (Askoi), etc. See Sunday.
Transmits at intervals from 10.30 a.m.
2.5-3.0 p.m.—Records: Potpourris.
4.0—Variety Concert.
5.3—For Children; Report.



The Munich station Dance Orchestra, which will entertain listeners at 10.20 p.m. The broadcast will be taken by a number of German stations.

6.0—Boris Borisoff (Balalaika and Domra).
6.30—Announcements; News.
7.15—Variety Programme.
8.15—The Roving Microphone.
8.35—Johann Strauss Concert by the Station Orchestra. Conductor: Fieldstad. Romana Manzini Hersteth (Soprano) and Hoff (Tenor).
9.40—News; Topical Talk.
10.15—Old Dance Music.
10.55-11.45—Dance Music.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 5 kW.
Transmits at intervals from 10.20 a.m.
2.45 p.m.—Yvonne Simonot (Cello). Sur le lac (Godard). Londonderry Air (Kreisler). Neapolitan Song (Rabey). The Spinning Wheel (Hollmann).
3.5—Bouillon Dance Band.
4.0—Records.
5.30—Theatre and Film Review.
5.45—Orchestra from Marseilles (PTT).
6.30—Talks.
6.30—Seventeenth and Eighteenth Century Italian Music by Mme Blanc-Audra (Songs) and Marcelle de Lacour (Harpischord). Balletto (Frescobaldi). Passacaglia (Rossi). Vittoria! Vittoria! (Carissimi). Sonatas (Scarlatti). Allegro (Galuppi). Già il sole del Gange (Scarlatti). Le Violette (Scarlatti). Qual farfalla amante (Scarlatti).
7.30—News.
8.15—See Lille.
8.30-10.15—See Brussels (No. 2).
10.15—Records.
10.30—News.
10.45-11.0—Records.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
6.28 a.m.—Call; Fanfare.
6.30—News; Records; at 8.10—Menus; at 8.30 and 9.0—News.
11.57—Racing Hints.
12.0 noon—Exchange; Records.
12.10 p.m.—For Children.
12.20—Records: Rhapsody in Blue (Gershwin) by the Boston Orchestra. Conductor: Fiedler.
12.30—News; Records.
1.10—Talk.
1.12—Avenir de Monfred (Organ).
1.25—Antoinette Soulas.
1.30—Exchange.
1.52—Saturday in Paris.
1.55—Review of the English Press.

2.0—News; Notes.
2.10—Records. Excerpts, "The Barber of Seville" (Rossini). "Ave Maria" (Schubert). "L'apprenti sorcier" (Dukas).
2.30—Film Review.
2.30—Variety Programme.
3.0 and 6.0—News; Exchange.
6.8—Racing Results; Records.
6.25—Roman Catholic Topicalities by the Rev. Fr. Roguet.
6.45—Serial.
7.0—News; Sports; Amusements.
7.15—Musical Parade: Jean Lumière Songs.
7.45—"Eat, Drink and be Merry," with Pierre Mingand.
8.0—Topical Review.
8.10—"Paris Gossip," with Pauline Carton and Jean Nohain.
8.15—"Session of the S.D.L."—Sequence with Pierre Dac and Fernand Rauzena.
8.35—"Le Roi des Rouspéteurs," with Doumel.
8.40—Records: Totentanz (Liszt) by Edward Kilenyi and Orchestra. Conductor: Meyrowitz.
9.10—Talk: Bulgaria.
9.25—Cuban Trio.
9.40—"La Clef des Songes" (Arnaud Desnos).

9.40—Bouillon Dance Band.
10.10—Operetta Records.
10.30—News.
10.45—Puccini Records. Aria, "La Bohème," by Georges Thill. Arias, "Madame Butterfly" and "Manon Lescaut," by Dusolina Giannini.
11.0—See Paris (Radio-Paris).

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.30 a.m.—Time; News.
6.40—Programmes; Records.
7.20-7.50—Gym; Records.
8.15—Colonial Review.
8.30—Time; News; Records.
9.0—News.
9.10—For Schools: German.
9.25—For Schools: Spanish.
9.40—Purcell Records. The Golden Sonata, by Jean Pasquier and Ferret (Violin). Etienne Pasquier (Cello). Gerlin (Harpischord). "Rejoice in the Lord alway," by the Choirs and Orchestra of the Bach Cantata Club of London. Conductor: Kennedy Scott. Trumpet Voluntary, by Alexander Harris (Trumpet). Harold Dawber (Organ), and the Hallé Orchestra. Conductor: Sir Hamilton Harty.
10.0—Talk: Women's Ideas.
10.5—Reading.
10.10—Records: Folk Songs of the Peruvian Indians.
10.30—Talk: "Les quatre fils d'Aymon."
10.40—Talk: A Village Wedding in Haut-Forez.
10.45—Reading; Records.
11.45—Snow Report.
11.50—Exchange; Markets; Water Level.
11.55—Economics.
12.10 p.m.—The Nursery (Mus-sorgsky) by Maria Branèze (Soprano).
12.25—Ministry of Health Talk.
12.40—Records.
12.45—Radio Journal; Programmes; Records.
2.0—Talk: Poets of the Renaissance.
2.10—Film Review.
2.20—Ballet Review.
2.30—Marcelle Samson (Songs).
2.45—Review of History Books.
2.55—Markets.
3.10—Talk.
3.15—Fantasia (Nicolini) by Henri Casadesu (Viola d'amore).
3.30—Excerpts from the Italian Concerto (Bach) by Mlle Charbonnière (Harpischord).
3.45—Mlle Dumaine (Songs).
4.0—Colonial Review and Talk.
4.17—Talk by Mme Sheikevitch: Portraits and Memories.
4.30—Talk: Tristan Corbière.
4.45—Schumann and Chopin Music by Mlle Barthélémy (Pfte.).
5.0—For Children.
5.30—Sonatas (Mozart) by Jean Doyen (Pfte.).
5.45—Talk: The School of Physics and Industrial Chemistry.
6.0—Theatre Review.
6.10—Talk: The Palace of Discoveries.
6.15—"Il était une petite bergère"—Operetta (Guy de Téraumont).
6.45—Talk: The 150th Anniversary of the French Revolution—The Revolution and Industry.
7.0—Programmes; Racing.
7.5—Records of "La Chanterie de la Renaissance." Conductor: Henry Expert.
7.30—Records.
7.45—Talk: The History and Future of Civilisation—Mechanisation.
8.0—Radio Journal de France.
8.30—To be announced. In the interval, Review in Rhyme by Dominique Bonnaud.
10.30—Records.
10.35—Musical Programme Preview.
10.45—Time; News.
11.0—Bouillon Dance Band.
12.30 a.m. (Sunday)—Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 5.0 a.m.
12.45 p.m.—Prague Wind Band; at 1.15—Records.
1.50-2.0—Talk: Wood Carving.
3.5—For Housewives.
3.10—"Der Obersteiger"—Operetta (Zeller), adapted by Odcházal. Orchestra and Choir, Conductor: Dyk.
4.35—"In a Summer Camp"—Play for Children.
5.20—Talk: Records.
5.30—Talk: "Stoicism."
5.45—Old Czech Anthems by Konstantin (Baritone).
6.0—For Farmers; Records.
6.15—"In an Industrial First-Aid Centre"—Sketch for Workers.
6.30—Odkolek Band; at 7.0—News.
7.45-10.0—See Brno.

10.0—Time; News; Sports.
10.10—Light Orchestral.
11.10-12.0 m.t.—Dvorsky Dance Band.

RADIO-EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
1.30-3.0 p.m.—Records.
5.30—Tea-Time Music by Julia Gray's Instrumental Trio.
6.0—Viola MacCarthy (Cello).
6.15—Feature Programme: New York World Fair.
6.45—News.
7.0—Piping round Ireland: Philip Martin.
7.15—U.S. Say: Electrical Transcriptions by Eric Boden.
7.45—Aírneal Cois Toine: Michael O'Cuill agus Cormac MacCartaigh.
8.0—Count Carlo Morozzo della Rocca (Pfte.).
8.20—Irish Radio Orchestra. Conductor: Capt. J. M. Doyle.
Irvine Lynch (Bass).
9.20—Nuacht an Lae—Gaelic News.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-LYONS

1,393 kc/s (215.4 m.); 25 kW.
Transmits at intervals from 12.0 noon.
6.45 p.m.—Light Music. Le père, la victoire (Ganne). Bigorro (Abadie). Chanté (Fauré). Bueno Signore (Berthier).
7.0—Topical Talk.
7.10—Xylophone Music. Rio de Janeiro (De Grados). Le rêve passe (Helmer). Bois dansant (Vouchant).
7.20—Amusement Guide.
7.25—Racing Results.
7.30—Film Music.
7.55—Journal Parlé.
8.0—Light Music.
8.20—Opera Choruses from "Carmen" (Bizet), "Cavalleria rusticana" (Mascagni), "Faust" (Gounod), "Mireille" (Gounod), "Rigoletto" (Verdi) and "Tannhäuser" (Wagner).
9.0—"Blagouons l'actualité"—One-Act Play (Pleau) with Jane Bertini, Clody Lamotte, Paul Janin and Armand Frank.
10.0—News.
10.5-11.30—Variety Concert.

RADIO-MEDITERRANÉE

1,321 kc/s (227.1 m.); 27 kW.
12.15 p.m.—Popular Refrains.
12.40—Selection, "Un de la musique" (Dumas-François).
1.0—Talk.
1.10—News; Variety.
7.0—For Children.
7.25—Amusements; Songs; Talk.
8.0—News; Music.
8.45—Humorous Items.
9.5—Weather; Light Music.
10.15—News; Dance Music.

RADIO-NORMANDIE

1,095 kc/s (274 m.); 20 kW.
6.30 a.m.—Band; Press Review.
7.0—Radio Reveille; Weather; at 7.15—Time.
7.30—Time; Wake up and sing.
7.45—Keyboard Rhythm.
8.0—Time; Stars on Parade.
8.15—Time; Happy Days.
8.30—French News Bulletin.
8.40—Your Message from the Stars.
8.45—Military Moments.
9.0—Time; Light Music.
9.15—The Wizard of Knowledge.
9.30—Favourite Melodies.
9.45—Ed and Don, Singing Cowboys.
10.0—Time; Carroll Gibbons and his Boys, with Anne Lenner, George Melachrine and Olive Groves, Russ Carr (Compère).
10.30—Radio Favourites.
10.45—Time; Radio - Normandie Concert Hall, presented by Benjie McNaab—Mozart.
11.0—Time; The British Empire—South Africa.
11.15—For Boys and Girls.
11.30—Vorelli.
11.45—Orchestra.
12.0 noon—Concert; at 12.30-12.50 p.m.—News.
2.0—Miniature Matinée.
2.15—Cyclists' Magazine of the Air—Editor: Bruce Anderson; Bob Danvers-Walker (Compère).
2.30—Cinema Organ Medley.
2.45—Songs we know them by.
3.0—Time; Musical Mirror.
3.15—Ask for another.
4.15—Ed and Don, Singing Cowboys.
4.30—The Lilt of the Waltz.
4.38—What's on?
5.0—Time; The Potted Show, with Clarence Wright and Peggy Desmond.

5.15—Music from the Movies.
5.45—Going Greyhound Racing?
6.0—Children's Corner.
6.50—Talk; News; Racing.
7.0—"Rallye Troupes de France."
7.40—Talk by M. Mistler.
7.45—Dances.
8.0—French News Bulletin.
8.15—"Le Café du Domino."
8.30—Opera Music.
9.0—Orchestra.
9.30—Songs.
10.0—Variety.
11.0—Café Concert.
12.0 m.t.—Melody at Midnight.
12.30-2.0 a.m. (Sunday)—Time; Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
1.50 p.m.—Concert. Magador (Violin). Prelude, "The Messiah" (Handel). Violin Concerto (Mozart). Excerpt, "The Ruins of Athens" (Beethoven).
2.30—Talk.
2.45—See Paris (Eiffel Tower).
3.5—For Schools.
4.0—See Lille.
4.25-5.45—Programme from Paris (Eiffel Tower).
5.45—Orchestra from Marseilles (PTT).
6.30—Talk; Notes; Records.
7.30—Radio Journal de France.
8.15—Records.
8.30—Symphony Concert. Colette Rivière (Pfte.) and the Nantes Radio Vocal Quartet. Overture, "Egmont" (Beethoven). Symphony in E flat (Haydn). Songs. Pfte. Concerto in D minor (Mozart). Petite suite (Debussy). Cydalise et le chèvre-pied (Pierné). Songs. Don Juan de Mañara (Tomas). Suite, "King David" (Honegger).
10.30-11.0—News; Records.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.
7.30 a.m.—Gym.
8.0-8.20—News; Markets.
11.0—Old Songs.
11.30—Chesi-Zanardelli-Cassone Trio.
12.30 p.m.—Sports; Records.
1.0—Time; News.
1.15—Music and Sketches.
1.40—Sports Interview.
2.0-2.20—News; Exchange.
4.30—For Children.
5.0—News; Records.
5.50—Aviation; Weather.
6.10-6.45—For Farmers.
7.0—News (French).
7.18—News (English).
7.35—Records.
7.45—Tourist Talk.
8.0—News; Talk; Music.
9.0—"Frate Mare"—Musical Play in Four Acts (Cerio-Montanaro). Orchestra and Choir. Conductor: Petralia. Cast: Romano Calò, Lidia Pasqualini, Umberto Mozato, Esperia Sperani, Celeste Marchesini, Nino Marchesini, Cesare Carini Gani, Giuseppe Valpreda, Luigi Grossoli, Gino Leoni, Giovanni Cimara, Angelo Ricci.
10.35—Schumann and Weber Music by Brugger (Pfte.).
11.0—News.
11.15—Dance Music.
12.0 m.t.—News (French).
12.16 a.m. (Sunday)—News (English).

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
2.0 p.m.—News.
2.10—Malachowski Band from Dürkheim.
3.0—Week-end Concert on Records.
3.30—KdF Report.
4.0—See Leipzig.
6.0—"Der bessere Spieler"—Tale (Maussner); Records.
6.30—Lesser-known Music of Schubert and Schumann. Margarethe Roll (Soprano), Maria Fougner (Pfte.). Songs (Schubert): (a) Sehnsucht, (b) Verklärung, (c) Der Sieg, (d) Wehmut. Pfte. Piece in E flat minor (Schubert). Songs (Schumann): (a) Heiss mich nicht reden, (b) Geisternähe, (c) Melancholie, (d) Nichts Schöneres.
7.0—"This and That"—Records.
7.30—Topical Programme.
8.0—Time; News.

8.15—Dance Music. Station Orchestra. Conductor: Kasper, Saarbrücken Schrammel Ensemble, Annemarie Kolb-Burdack (Soprano), Tony Niessner (Tenor).
10.0—Time; News.
10.30—Dance Music from Munich.
12.0 m.t.-3.0 a.m. (Sunday)—See Hamburg.

SOTTENS

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s (748 m.).
12.29 p.m.—Time; News; Music.
12.45—Records; Sandler Trio.
12.50—Records: Dances and Songs.
1.15—Violin and Pfte. Records.
1.30-2.0—Records: "Orphée" (Gluck), with Alice Raveau, Jany Dellile, Vlassof Choir and Paris Symphony Orchestra. Conductor: Tomasi.
6.0—Lausanne Cathedral Chimes.
6.5—For Children; Records.
6.45—School Reminiscences; Music.
7.0—Talk: "The Neuchâtel Fountains."
7.10—Records.
7.20—Talk: "Moral Rearmament"; Music.
7.40—The Week in Smiles.
7.50—News; Chimes.
8.0—Radio Lausanne Calendar.
8.5—Romansch Review.
8.30—The Exotic in Debussy's Music—Lecture-Recital by Henri Gil-Marchex (Pfte.).
9.5—"The Dogs of War."
9.40—Variety, with Popular Songs.
10.10-11.0—Dance Records.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.20 a.m.
12.5 p.m.—Records.
12.30-1.0—News; Exchange.
1.0—Mandoline Quartet from Malmö.
3.30—Reading (Hedlund); Records.
5.5—For Young People.
5.30—Norrköping Orchestra. Conductor: Freudenthal.
6.30—Talk; Kitchens.
7.0—News; Topical Echoes.
7.30—"The Optimist and the Pessimist"—Dialogue.
7.45—Old Dance Music by Esbjörnsson's Band.
8.15—Talk by Sten Bergman: Famous Explorers—Vitus Behring.
8.45—Cabaret.
9.30—Garaguly (Violin) and Witkowski (Pfte.). Violin: (a) Berceuse, "The Firebird" (Stravinsky), (b) Nocturne and Taranella (Szymanowski). Pfte.: (a) Maundy Thursday in Seville (Turina), (b) Two Poems (Scriabin). Violin: Bulgarian Rhapsody, Vardar (Wladigeroff).
10.0—News; Weather.
10.15—Dance Music—Ellboy's Orchestra.
10.45—Reading (Falstaff Fakir).
11.0-12.0 m.t.—Hulphers's Dance Band from Hålsingborg.

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
11.50 a.m.—Orchestra. Conductor: de Villers. Suite carnavalesque (Thomé). Dolores (Waldteufel). Overture, "Gri-Gri" (Lincke). Selection, "Nina-Rosa" (Romberg).
12.30 p.m.—News (German, French).
1.5-1.30—Records.
5.5—Legal Talk (German).
5.20—French Lesson.
5.35—String Quartet (Ropartz).
6.15—Talk.
6.30—Quartet in B flat (Haydn).
7.0—News (French, German).
7.30—Records: Light Music.
8.0—News (French, German).
8.15—Orchestra. Conductor: Bour. The Three Bears (Eric Coates). In the interval, Jeanne Wolferstaedter and Bour (Pfte. Duo). Fantaisie rythmique (Poot). Holiday Suite (Fischer).
9.15—Part II of the Concert in connection with the International Singing Competition, from the Salle Sainte-Barbe, Sélestat. Basle Choral Society: Salve regina (Schubert). Margaret Double Quartet of Basle: (a) S'Heimweiland (Lavater), (b) Mein Herz ist fröhlich (Felman). Choir of the Sélestat Ecole Normale d'Institutrices: Mignonne, allons voir si la rose (Bordes-Costeley). Violin Sonata in C minor (Beethoven). Sélestat Harmonie

SATURDAY (June 3)

Chorale: Alouette (Barth). Sélestat Teachers Choir: Ma plainte est grande (Naudier).
10.30—News (French, German).
10.45—Music.
11.0-12.0 m.t.—See Paris (Radio-Paris).

STUTTGART

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
2.0 p.m.—News.
2.10—Folk Music. Rehfeld Band, Station Male Voice Choir. Conductor: Zimmermann, Stuttgart Folk Music Ensemble and the Winkler Family.
3.0—Records.
4.0—See Leipzig.
4.0—Topical Report.
7.0—See Leipzig.
8.0—News.
8.15—Concert from the Reich Horticultural Show. Station Orchestra and Choir. Conductor: Görlisch. Karl Mikorey (Tenor), Traute Rose (Soprano), Emma Mayer (Contralto). Excerpt, "The Merry Wives of Windsor" (Nicolaï). Flower Waltz, "The Nutcracker" (Tchaikovsky). Chorus, "The Gondoliers" (Sullivan). Waltz, Freut euch des Lebens (Joh. Strauss, Jr.). Excerpt, "The Cousin from Nowhere" (Künneke). Excerpt, "Der lustige Krieg" (Joh. Strauss, Sen.). Overture, "Frühlingstanz" (Jos. Strauss). Trio, "Der Vizeadmiral" (Millöcker). Waltz, Roses from the South (Joh. Strauss, Jun.). Am Springbrunnen (Ast). Duet, "Giuditta" (Lehár). Scenes, "Fête du Printemps" (Thomas). Excerpt from "The Bird Fancier" (Zeller). Waltz, Rote Rosen (Lehár). Duet, "The Gipsy Baron" (Joh. Strauss, Jun.). Excerpt, "Die Landstreicher" (Ziehrer).
10.0—News; Sports.
10.30—Dance Music from Munich.
12.0 m.t.-2.0 a.m. (Sunday)—See Hamburg.

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
12.0 noon—Musette Orchestra.
12.30 p.m.—Light Music.
12.45—News.
12.55—Grat Rejoinders; Dances.
1.30—Request Programme.
2.0-2.15—News.
6.0—News; Orchestra; Waltzes.
6.55—News; Chansonnettes.
7.15—Bal champêtre; Talk.
7.45—Marches and Soldier Songs.
8.0—News; Sketches.
8.30—Musette Orchestra.
8.45—"Primavera"—Fantasy.
9.10—Talk; Question Bee.
9.45—Humorous Sketch; Talk.
10.0—News; Request Music.
10.45—Light Music. Alsatian March (Dupont). Selection, "Marseille mes amours" (Sellers). Tartar March (Hervé).
11.0-11.10—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 30 kW. Milan (No. 1), etc. See Sunday.
7.30 a.m.-6.45 p.m.—See Rome Group.
7.10—Dopolavoro Notes; Records.
8.0—News; Topical; Records.
8.36 (Milan (No. 1) and Rome (No. 2) only)—News in German.
9.0—"Polliuto"—Three-Act Opera (Donizetti). Conductor: La Rosa Parodi. Chorus Master: Consoli. Cast: Giuseppe Manacchini, Armando Giannotti, Aureliano Pertile, Maria Pedrini, Augusto Beuf, and Emilio Venturini. In the intervals, Talks. After the Opera, News; Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
12.0 noon—Orchestra. Conductor: Schönherr.
1.0 p.m.—News.
1.15—Station Orchestra. Conductor: Sandauer. Schrammel Ensemble. Ein Tag am Wienerwald (Kreutzberger). Transaktionenwalzer (Jos. Strauss). Sieveringer Madeln (Fiebrich). Steinriegler Marsch (Por). Overture, "Banditenstreiche" (Suppé). Wiener Burgenmusik (Pachernegg). A bisserl!

Seligkeit (Mayer). Herzen und Reben (Domanig-Roll). Tik-Tak-Polka (Joh. Strauss).
2.0—News.

2.10—Classical Records.
3.30—Concert by Children. Nemece Children's Orchestra, Wienerwald Sängerknaben. Conductor: Ziegler.
4.0—See Frankfurt.
6.0—"Petri Heil"—Humorous Tales about Fish and the Noble Sport of Fishing (arr. Riemerschmid), by Grete Bibl, Rosl Dorena, Wilhelm Schich, Walter Varnadel.
6.40—"In the Sunny South"—San Records. La campana di San Giusto (Arona). O sole mio (Di Capua). Sicilia (Appollonio). Mandolinata a Napule (Murolo-Tagliaferri). Waltz, Wo die Zitronen blüh'n (Joh. Strauss). Neapolitan Serenade (Winkler). O Maranariello (Gambardella). Barcarolle (Grothe), Funiculi-Funicula (Denza).
7.15—"The Call of the Alps"—Poems read by Hanns Barth.
7.30—Topical Review.
7.50—News in Ukrainian.
8.0—News.
8.15—"Alpine Gaity"—Hans Leitner's Bauernbäum, Dialect Items and Fritz Krenn (Yodeller). Heinz Fürk (Zither), Toni Hartl (Accordion), Franz Pfeiffer (Trumpet), Rudolf Zima (Trombone), Wastl Moser (Harp) and Karl Stohl (Songs).
9.0—"Tip auf Amalia"—Folk Play (Goritschan).
10.0—News; Press Review.
10.30-12.0 m.t.—To-morrow will be Sunday!—Orchestra. Conductor: Sandauer. Hans Nagel (Tenor). Piavemarsch (Lehár). Selection, "Frühlingstanz" (Joh. Strauss-Reiterfer). Tenor: Liebste, glaub an mich! (Lehár). Waltz, Samt und Seide (Ziehrer). Tenor: Mattinata (Leoncavallo). Festival March (Ketelbey). Valse caprice, Flatterhaft (Planck). Putzika (Wiga-Gabriel). Tenor: Ich habe das Gefühl (Stolz). Das verlobte Saxophon (Krome). Diddeldiddeldum (Busch). Tango, Esperanza (Andrés). Tenor: Buona sera, Signorina (Stolz). Overture, Treffpunkt Wien (Fischer). Mazurka (Meisel). Tenor: Tango, Bei der Villa Maria (Loubé). Geisterstunde (Ressel). Waltz, Heut' fällt Sonnenschein in meine Welt (Richartz). Spanish Dance (Jezewsky-Voehrs).
WARSAW
224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.
Transmits at intervals from 6.30 a.m.
3.30 p.m.—Poznań Station Orchestra. Conductor: Raabe. Selection, "Carmen" (Bizet). Heure mystérieuse (Chaminade). Waltz, "The Gipsy Baron" (Strauss). Serenade (Drigo).
4.0—News; Industrial Notes.
4.20—Literary Review.
4.35 (from Łódź)—Nagujewski (Cello). Sonata in F (Marcello). Sarabande (Bach). Air (Purcell). Cantabile (Cui).
5.0—Service from the Ostra Brama, Wilno.
6.0—Talk: The Polish Red Cross.
6.10—Records of Wind Instruments.
6.30—For Poles Abroad; Talks; Popular Orchestral for Young People. Polonaise (Krajkowski). Mazurka (Namysłowski). Polka. Potpourri of Polish Melodies (Piorkowski). Provincial Melody (Dzierzanowski). Cracovian Wedding (Brzezinski). Provincial Melody (Dzierzanowski). Mazurka (Tymolski). Love Song (Dziegiecki). Łowicz Wedding (Wielher). Oberek (Karnaszewski).
8.0—For Country People.
8.15—Festival Programme from Switzerland.
8.40-8.50—News; To-morrow's Programmes.
9.0—See Brussels (No. 1).
10.0—"Le détective a aidé"—Sketch (Duvernois).
10.15—Dance Music by the Station Orchestra, Carnero, the Radio Trio and the Radio Quintuplets.
10.55—Press Review.
11.0—News.
11.15—News in German.
11.15-11.55—Dance Music (contd.).

SHORT-WAVE BROADCASTING STATIONS (62-32 m.)

For transmission times (B.S.T.) of stations shown in black type see Short-Wave Programmes. The broadcasting wavebands are indicated by the heavy vertical lines.

Mc/s	m.	kW	Call	Station	Mc/s	m.	kW	Call	Station
4.84	61.98	10	VUC2	Calcutta (India). 12.30-18.00.	6.13	48.94	1	LKJ	Jeløy (Norway). 18.00-23.00.
4.84	61.98	1	HJ3ABD	Bogotá (Colombia). 00.00-04.30.	6.13	48.92	1	COCD	Havana (Cuba). 14.00-18.00.
4.86	61.73	1	HJ1ABE	Cartagena (Colombia). 13.00-00.00; 02.00-05.00.	6.13	48.9	0.5	CHNX	Halifax (Nova Scotia). 12.00-04.15; SUN., 17.00-04.15.
4.87	61.6	1	YV2RN	San Cristobal (Ven.). 17.00-18.15; 23.00-03.15.	6.14	48.88	0.3	CR7AA	Lourenço Marques (Mozambique). W'days, 06.00-07.00; 10.30-12.30; 15.30-17.00; 18.00-22.00; SUN., 11.00-13.00; 16.00-20.00.
4.87	61.54	0.75	HJ6FAH	Armenia (Col.). 14.00-19.00; 23.00-04.30.	6.14	48.86	5	SP48	Warsaw (Poland). 20.00-22.30.
4.88	61.5	0.3	ZTD	Durban (S. Africa). SUN., 18.00-21.20.	6.14	48.86	28	W8XK	Pittsburgh (Pa., U.S.A.).
4.88	61.48	10	VUB2	Bombay (India).	6.14	48.82	1	HJ4ABE	Medellin (Colombia). 23.00-05.30.
4.88	61.48	1	HJ4ABP	Medellin (Colombia). 14.00-19.00; 00.00-05.00.	6.15	48.78	1.06	VPB	Colombo (Ceylon).
4.90	61.22	1	HJ3BAH	Bogotá (Colombia). 17.30-20.00; 00.00-05.00.	6.15	48.78	0.1	HI5N	Moca City (Dom. Rep.). 00.00-03.30.
4.92	60.98	10	VUM2	Madras (India). 12.30-18.00.	6.15	48.78	2	CJRO	Winnipeg (Canada). 23.00-05.00.
4.96	60.49	10	VUD2	Delhi (India).	6.16	48.72	2.5	YV5RD	Caracas (Ven.). 21.30-04.00; SUN., 14.00-04.30.
5.14	58.31	30	OK1MPT	Poděbrady (Prague, Czecho-Slovakia).	6.17	48.62	10	W2XE	Wayne (N.J., U.S.A.).
5.15	58.3	1	PMY	Bandoeng (Java). W'days, 00.00-09.00; 10.30-17.00; SUN., 01.00-08.30; 10.30-17.00.	6.17	48.59	0.3	XEXA	Mexico City. 20.30-22.00; 01.15-06.50.
5.83	51.46	1.3	TIGPH	San José (Costa Rica). 00.00-05.00.	6.19	48.47	0.2	TG2	Guatemala City. Daily 13.30-16.00; 00.00-05.00; SAT., 00.00-09.00.
5.85	51.28	0.25	YV1RV	Maracaibo (Venez.). 12.00-19.00; 23.00-05.00.	6.19	48.47	25	HVJ	Vatican City.
5.85	51.24	15	RIA	Moscow (U.S.S.R.).	6.19	48.47	0.05	HI1A	Santiago (Dom. Rep.). 00.30-03.30.
5.87	51.06	0.5	HRN	Tegucigalpa (Honduras). 01.00-05.00.	6.23	48.15	0.4	OAX4G	Lima (Peru). 01.00-06.00.
5.88	51.02	0.25	YV3RA	Barquisimeto (Venezuela). 16.00-05.00.	6.23	48.15	0.2	YV1RG	Valera (Venezuela). 23.45-02.45.
5.90	50.85	0.2	ZNB	Mafeking (S. Africa). 12.00-18.00 (ex. SUN.); 19.00-20.30.	6.24	48.05	0.7	HIN	Trujillo City (Dom. Rep.). W'days, 23.00-05.00.
5.90	50.8	1	TILS	San José (C. Rica). 18.00-20.30; 00.00-05.00.	6.25	48	1	YV5RJ	Caracas (Venezuela). 16.00-19.00; 22.00-04.00.
5.93	50.59	1	YV1RL	Maracaibo (Venezuela). 23.00-04.00.	6.27	47.85	1	YV5RP	Caracas (Venezuela). 22.30-04.00.
5.94	50.51	1	PJC1	Curaçao (Neth. W. Indies). 00.30-02.30.	6.28	47.74	0.04	HIG	Trujillo City (Dom. Rep.). 21.40-03.40.
5.94	50.51	0.5	TG2X	Guatemala City. TUES., WED., FRI., 16.00-18.00; SAT., to 19.00.	6.30	47.62	0.2	YV4RD	Maracay (Venezuela). 00.00-05.00.
5.97	50.26	1	HJ4ABD	Medellin (Colombia). 02.00-05.30.	6.31	47.51	0.1	HIZ	Trujillo City (Dom. Rep.). W'days, 23.00-01.40.
5.97	50.25	1	YV5RC	Caracas (Venezuela). 13.00-04.00; SAT. to 05.30.	6.33	47.39	0.5	COCW	Havana (Cuba). 01.00-07.00.
5.98	50.17	2	CS2WD	Lisbon (Portugal).	6.33	47.39	0.2	OAX1A	Chiclayo (Peru). 02.00-05.00.
5.98	50.16	1	VONG	St. John's (Newfoundland). Relays VONF.	6.36	47.14	0.25	YV1RH	Maracaibo (Venezuela). 22.30-04.30.
5.98	50.13	1	COCO	Havana (Cuba). 14.00-06.00.	6.38	47.02	0.3	YV5RF	Caracas. W'days, 17.00-19.00; 23.30-03.30.
5.99	50.08	1	HJ3ABX	Bogotá (Colombia). 23.30-05.30.	6.40	46.88	0.5	YV5RH	Caracas (Venezuela). W'days, 23.00-03.30.
6.00	50	20	RNE	Moscow (U.S.S.R.).	6.41	46.8	0.5	TIPG	San José (Costa Rica). 13.00-05.30.
6.00	50	0.5	XEBT	Mexico City (Mexico). 16.00-06.00.	6.42	46.73	0.2	YV6RC	Bolivar City (Venezuela). 22.30-03.30.
6.00	49.96	0.1	CFCX	Montreal. 13.45-07.00; SUN., 15.00-04.15.	6.42	46.73	0.2	HI1S	Santiago (Dom. Rep.). W'days, 23.40-01.00.
6.00	49.96	0.2	HP5K	Colon (Panama). 17.00-19.00; 23.00-05.00.	6.46	46.4	0.6	YV3RD	Barquisimeto (Venezuela). 23.30-03.30.
6.01	49.94	5	ZRH	Johannesburg (S. Africa). W'days, 05.45-06.50; 15.30-21.30; SUN., 15.00-21.15.	6.48	46.3	0.25	HI1L	Santiago (Dom. Rep.). 16.00-18.00; 01.00-03.00.
6.01	49.94	10	XYO	Rangoon (Burma).	6.49	46.22	1	TGWB	Guatemala City. W'days, 13.45-15.00; 18.45-21.45; 01.30-06.15.
6.01	49.92	30	OLR2A	Poděbrady (Prague, Czecho-Slovakia).	6.50	46.15	0.2	HIL	Trujillo City (Dom. Rep.). 00.00-02.00.
6.01	49.92	5	PRA8	Pernambuco (Brazil). 22.00-03.00.	6.51	46.11	0.2	YN1GG	Managua (Nicaragua). 19.00-20.30; 02.00-04.00.
6.01	49.9	1	CJCX	Sydney (Nova Scotia). W'days, 13.00-18.00; SUN., 16.00-17.30.	6.52	46.01	0.3	YV4RB	Valencia (Venezuela). 23.00-03.30.
6.02	49.86	0.1	HI3U	Santiago (Dom. Rep.). W'days, 23.00-04.00.	6.54	45.84	0.2	YV6RB	Bolivar City (Venezuela). W'days, 00.30-03.30.
6.02	49.83	5-40	DJC	Zeesen (Germany).	6.56	45.7	0.03	HI5P	Puerto Plata (D.R.). 23.40-01.40; 03.40-05.40.
6.03	49.75	100	RW96	Moscow (U.S.S.R.).	6.61	45.39	0.5	YN1LG	Managua (Nicaragua). 00.00-04.00.
6.03	49.75	0.2	HP5B	Panama City (Panama). 00.00-04.00.	6.62	45.31	2	PRADO	Riobamba (Ecuador). THURS., 03.00-05.00.
6.03	49.75	25	HVJ	Vatican City.	6.63	45.25	0.1	HIT	Trujillo City (Dom. Rep.). 22.30-02.30.
6.03	49.75	30	OLR2B	Poděbrady (Prague, Czecho-Slovakia).	6.67	45	0.2	HC2RL	Guayaquil (Ecuador). SUN., 23.30-01.30; WED., 03.00-05.00.
6.04	49.67	5	W4XB	Miami (Florida). W'days, 18.00-20.00; 02.00-05.00; SUN., 21.00-23.00; 02.00-05.00.	6.67	44.98	0.1	HI9B	Santiago (Dom. Rep.). 00.40-01.40.
6.04	49.67	20	W1XAL	Boston (Mass., U.S.A.).	6.67	44.94	20	HBQ	Radio-Nations (Prangins, Switzerland).
6.04	49.67	10	YDA	Tandjong Priok (Java).	6.69	44.84	3	TIEP	San José (Costa Rica). 01.00-05.00.
6.04	49.65	1	HJ1ABG	Barranquilla (Col.). 17.00-05.00; SUN., to 02.00.	6.72	44.64	1.5	PMH	Bandoeng (Java). W'days, 10.30-17.00; SUN., 02.30-07.30.
6.04	49.63	0.1	XETW	Tampico (Mexico). 01.00-05.00.	6.74	44.51	0.15	HC1TQ	Quito (Ecuador). SUN., 23.00-01.00.
6.05	49.59	10-50	GSA	Davenport.	6.76	44.38	0.5	YN1LF	Managua (Nicaragua). 01.00-05.00.
6.06	49.5	10	W8XAL	Cincinnati (Ohio, U.S.A.). SUN., 13.00-17.00, 04.00-07.00; MON., THURS., SAT., 10.45-07.00; TUES., WED., FRI., 10.45-17.00; 04.00-07.00.	6.77	44.28	0.075	HIH	San Pedro (Dom. Rep.). 01.40-03.40; SUN., 23.20-00.40.
6.06	49.5	0.09	ZHJ	Penang (S.S.). W'days, 12.40-14.40.	7.03	42.7	1	EAQ1	Barcelona (Spain).
6.06	49.5	10	W3XAU	Philadelphia (Pa., U.S.A.).	7.07	42.43	0.25	FET1	Valladolid (Spain).
6.06	49.46	12	SBO	Motala (Sweden). 21.15-22.00.	7.07	42.43	1	EA1BO	Burgos (Spain).
6.06	49.48	0.5	FIQA	Tananarive (Madagascar). SUN., 08.30-10.00; W'days, 06.30-06.45; 09.30-10.30.	7.17	41.8	1.75	CR6AA	Lobito (Angola). WED. & SAT., 19.45-22.30.
6.07	49.44	0.3	HH2S	Port-au-Prince (Haiti). THURS., from 02.30.	7.22	41.55	50	12RO1	Rome (Italy).
6.07	49.4	50	DJY	Vienna (Germany).	7.22	41.55	0.6	...	Malaga (Spain). 15.00-16.00; 21.30-23.40.
6.07	49.4	0.4	CFRX	Toronto (Canada). 12.00-05.00.	7.28	41.21	25	TPB7	Paris (Radio-Mondial, France).
6.08	49.35	5-40	DJM	Zeesen (Germany).	7.28	41.21	25	TPB11	Paris (Radio-Mondial, France).
6.08	49.33	0.6	VQ7LO	Nairobi (Kenya). MON. to SAT. 11.30-12.00; D'ly 17.15-20.15; TUES. & THURS., 14.15-15.15.	7.35	40.8	1	FET5	Niepokalanow (Poland). SUN. 19.00-20.00.
6.08	49.33	0.2	YV1RD	Maracaibo (Venezuela). 01.00-04.00.	7.38	40.65	20	XECC	Burgos (Spain).
6.09	49.26	2.6	ZBW2	Hong Kong.	7.44	40.3	1	FG8AA	Mexico City (Mexico). SUN., 23.00-01.00.
6.09	49.24	15	OAX4Z	Lima (Peru). 01.00-07.30.	7.50	40	4	EAJ43	Point-au-Pitre, Guadeloupe (W.I.). 23.00-00.00.
6.10	49.2	5	ZRK	Cape Town (S. Africa). 18.00-22.00.	7.51	39.89	25	RKI	Tenerife (Canary Islands).
6.10	49.2	0.2	ZRJ	Johannesburg (S. Africa). W'days, 09.15-13.30; 15.00-17.30; SUN., 09.30-13.00; 15.00-17.30.	7.89	38	1	YSD	Moscow (U.S.S.R.).
6.10	49.18	25	W3XL	Bound Brook (N.J., U.S.A.).	8.46	35.44	1.5	LZA	San Salvador (El Salvador). 01.00-04.30.
6.10	49.18	1	YUA	Belgrade (Yugoslavia).	8.58	34.97	0.8	YNPR	Sofia (Bulgaria). Relays Sofia (252.9 m.).
6.11	49.1	10-50	GSL	Davenport.	8.65	34.68	1	HJ4ABU	Managua (Nicaragua). 18.45-20.45; 00.45-04.15.
6.12	49.02	10	W2XE	Wayne (N.J., U.S.A.).	8.66	34.62	1	COJQ	Medellin (Colombia). 01.00-04.00.
6.12	49.02	1	...	Lahti (Finland).	8.82	33.99	1	COCQ	Camaguey (Cuba). 21.30-00.00; 02.00-03.00.
6.12	49.01	0.4	HP5H	Panama City (Panama). 00.00-04.00.	8.96	33.48	1.2	COKG	Havana (Cuba).
6.12	49	20	XEUZ	Mexico City (Mexico). 01.00-08.00.	9.03	33.32	1	COBZ	Santiago (Cuba). 23.00-00.00; 03.30-04.30.
6.12	49	1	FZR	Saigon (Fr. Indo-China). 00.45-01.15; 05.45-06.45; 13.00-14.30.	9.09	33	1	PJC2	Havana (Cuba). 13.45-07.15.
6.12	48.98	5	CXA4	Montevideo (Uruguay). 21.00-03.00.	9.10	32.97	0.1	COCA	Curaçao (Neth. W. Indies). 00.30-02.30; SUN., 16.30-18.30.
6.13	48.95	0.5	ZHO	Singapore (S.S.). 10.40-15.40; SUN., from 11.25.	9.12	32.88	5	HAT4	Havana (Cuba). 18.00-06.00.
6.13	48.94	0.2	VP3BG	Georgetown (B. Guiana). 16.15-17.15; 21.45-01.45.	9.16	32.74	0.15	HC1GQ	Budapest (Hungary).
					9.20	32.61	0.2	COBX	Quito (Ecuador). TUES., THURS., SAT., 02.30-04.30.
					9.34	32.1	20	HL	Havana (Cuba). 14.00-05.30.
									Radio-Nations (Prangins, Switzerland).