

# World-Radio

THE BBC FOREIGN PROGRAMME JOURNAL ★ EVERY FRIDAY

WITH FULL INFORMATION FOR THE LISTENER AND VIEWER

2<sup>D</sup>



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Rip Van Winkle Awakes to Broadcasting ★ Radiolympia 1937

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List of Italian Studio Operas ★ Story of the Salzburg Festival

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# WORLD - RADIO

VOL. XXV. No. 625



JULY 16, 1937

## The Great Wagner Festival

THERE will be joy among Wagner enthusiasts at the news that all the German stations will broadcast the complete performance of *Lohengrin* with which the Bayreuth Festival opens on Saturday, July 24. A number of European stations, too, will take either the whole or part of the broadcast, which begins at 4 p.m. To fill in the long intervals between the first and second acts commentators will give a microphone picture of *Eremitage*, formerly the residence of Frederick the Great's sister, followed by a visit to the Villa Wahnfried, where Wagner lived and is buried. The cast of the opera will consist of some of Germany's foremost singers: Franz Völker as Lohengrin, Ludwig Hofmann as the King, Marie Müller as Elsa, Jaro Prohaska as Telramund, Margarete Klose as Ortrud, and Herbert Janssen as the Herald. Both the production and musical direction are in the hands of Heinz Tietjen.

## Irishmen on the Danube

Gaelic songs and music, and the brogue of Old Ireland, will be heard in an unusual setting this week-end. Last Saturday a party left Dublin on an Irish-Hungarian Friendship Tour to Budapest, and, while in the Hungarian capital, members of the party will broadcast from the Budapest station. On Saturday, July 17, Sean Dempsey, the famous Irish piper, will be "on the air" from 9.30 to 9.35 p.m., and on Wednesday there will be an "all-Irish" farewell concert from 10 to 11 p.m. The announcements will be given in Magyar, English, and Gaelic; and the programme will conclude with a talk by Mr. Hubert Briscoe, who is Hungarian Consul to the Irish Free State.

## Mirth from Germany

Tune in to Leipzig at 8.10 p.m. on Monday for an hour of merriment—a burlesque oratorio based on Wilhelm Busch's immortal Max and Moritz stories. There must be few parts of

the world where the amusing adventures of Max and Moritz are not known, and the works of Busch—who can best be described as an amalgam of Gilbert, Edward Lear, and Lewis Carroll—are a perennial delight to youth everywhere. Born in 1832, Busch was trained as a painter, but it was his gift of caricature, as well as his prose and verse, that earned him lasting fame.



...trained as a painter"

## "Monstrous Snakes"!

Outside Austria, opinions of Bruckner's music have ranged from Brahms's contemptuous verdict on the "monstrous snakes of symphonies" to an esteem which would accord him a place among the great masters of all time. But in his own country there is nothing half-hearted in the piety with which they honour his music and his memory. Year by year Bruckner festivals are organised, with his own old church of St. Florian as their centre. It is an imposing building in the baroque manner, a blend of Latin and Teutonic styles, lavish—to heretic eyes too lavish—in its decoration: the illustration on page 23 gives a good idea of its interior. There Bruckner was a choir-boy and afterwards organist: they still call the organ—the biggest in Austria—by his name, and beneath it his bones rest. But it was only as an organist that he was known in his lifetime, though his gifts in that domain were famous so far from home as London.

## Crystal Palace Recitals

He gave series of recitals in 1871 at the Crystal Palace and at the Exhibition of the time which aroused unusual interest. Since his death in 1896, at the age of 72, interest in his music has been spreading in an ever-widening circle, and his Masses and his Symphonies—like Beethoven he wrote nine—are performed throughout the world. The Roman Catholic Church especially will always see to it that his music for its services is devoutly cared for; not for centuries had any music on so grand a scale been dedicated to the Church he served so faithfully. One of his masses is to be broadcast from St. Florian on Sunday, July 18, at 10 a.m., and at 3 that afternoon a concert, which is also part of this year's festival, is the central point of Vienna's programme.

## A Soldier who Turned Monk

"La voix du désert," which is being broadcast from Strasbourg at 10.0 on Thursday evening, is a dramatisation of the life of Charles de Foucauld, the Strasbourg-born cavalry officer and explorer, who at thirty gave up a brilliant career to join the Trappist order. A dozen years later he left his monastery to follow, in the Sahara, a solitary vocation only comparable in austerity to that of the Desert Fathers of the primitive Church. At first he lived in beautiful Beni-Abbès, but soon "the voice of the desert" called him from his flowering oasis to remoter regions, and from 1905 until his death at the hands of hostile tribesmen in 1916, he lived at Tamanrasset among that strange Berber race, the Touaregs, not with any hope of effective missionary work, but only, as he said, to prepare the soil, to form a zone of Christianity in the midst of that vast untouched field.

There, praying and fasting in a little cell, he compiled a Touareg dictionary for future missionaries, and collected several volumes of Touareg poems. The epic story of his life, written by René Bazin (1921), has been translated into English.

## Film Talent for Broadcasting

The broadcasting industry is buzzing with rumours that Hollywood interests, partly through their Wall Street connexions, are moving along several fronts to gain a firmer



Washington is frowning . . ."

foothold in the broadcasting sphere, writes my Washington correspondent. Efforts, it is stated, are being exerted to acquire broadcasting properties by purchase, and to line up even more film talent with radio for mutual use and exploitation. There seems to be little likelihood, however, that either Wall Street or the motion picture industry will acquire any appreciable number of radio properties—(1) because they are so tightly held by local interests and by strongly financed radio network organisations; and (2) because Washington is frowning more and more upon the sale of stations (whose chief value is their wavelength franchise from the Government) at fabulous prices that may sometimes be justified by earnings, but seldom are justified by the cost of physical properties.

## "Swapping Horses" in France

With the change of Government in France, M. Jardillier is no longer Minister of Posts and Telegraphs, in which office he was one of the outstanding successes of M. Blum's Government. From the outset he wisely followed the policy of M. Mandel, who had previously done much to improve the broadcasting service. An outstanding feature of M. Jardillier's régime has been the prominence given to German classical drama and music, which must have had a good influence on the relationship of the two countries. French versions of a number of plays by Goethe, Schiller, and Gerhau Hauptmann, and Wagner, Weber, and Strauss operas have frequently figured in the programmes. Radio-Paris is among the stations which will take the entire performance of *Lohengrin* with which the Bayreuth Festival opens to-morrow week, and this evening Beethoven's *Fidelio* will be broadcast by the Lille (Nord) group of stations.

ETHERVIATOR.



## THE CHANGING WORLD

## Rip Van Winkle Awakes

By RALPH W. HALLOWS

to Broadcasting

IN the whole history of mankind there is probably no single factor that has changed the world so much in so short a time as the development of broadcasting. Until you sit down to think about it, it is difficult to realise the alteration in the lives and in the outlook of civilised peoples that broadcasting has brought about in the fifteen years or so of its history up to the present.

In former ages human progress has been mostly slow and gradual. Could Julius Caesar have revisited London in the time of Queen Elizabeth he would not have found much to marvel at save gunpowder and printing. The buildings, the roads, and the drainage he might even have thought largely inferior to those of his own time. But could some modern Rip Van Winkle awake to-day from a sleep that began shortly after the War he would find a world changed in the most amazing way by one single innovation: broadcasting.

Let us suppose that there was such a slumberer and that he was just an average man in the street. Think of him as a married man with a very fair education, living in a comfortable little house, reading his daily paper, and making his daily journeys to and from his work.

The only instruments for providing entertainment in his home before he closed his eyes for that fateful sleep were the piano, which his wife or certain gifted friends played now and then, and a wheezy old horn-type gramophone with perhaps two or three dozen indifferent records (electrical recording, which had no particular advantages until the wireless valve-made faithful electrical reproduction possible, did not come in until 1925).

He knew little or nothing of foreign peoples or of foreign countries, save what he had seen during the War if he served abroad. Music was something that he knew very little about. He liked it, but he heard it only now and then from the aforementioned piano and gramophone or when he went to the theatre or the concert hall.

## The Old Order...

To him the important people in the realms of politics, science, literature, the fine arts, and the various "movements" that were taking place were just names that he saw in print from time to time. He read about their doings; he saw their portraits; but they were so far removed from his ordinary life that they were mainly abstract personalities with whom he could never hope to come into any kind of contact. He had never heard the voice of his King and certainly he never expected to do so.

Though the motor-car that he had bought when the War came to an end enabled him to see something of his own country, his outlook was on the whole distinctly parochial. If he was a dweller in London or the home counties, he knew almost nothing of the speech, the music, the spirit, and the problems of the West Countryman, the East Anglian, the Midlander, the Yorkshireman, the Tynesider, the Irishman, the Welshman, and the Scot. Still less did he know of the peoples living in European countries outside his own: and even less than that of the inhabitants of our vast Empire, or of

those who live in the United States, in the Dutch East Indies, in South America, or Japan.

Imagine our twentieth-century Rip Van Winkle awakening some time in the late spring of 1937. In the drawing-room he finds an unfamiliar piece of furniture, which his wife describes to him as "an all-wave radiogram." When he asks for explanations she finds herself in deep waters, but thinks that the easiest way out of the difficult situation is to let him hear what the instrument can do.

She gives him first of all one or two records, and he expresses astonishment that a gramophone could sound like *that*. It is music, real music. She turns a switch and moves a knob. More music. "That," she says, "is coming from London by wireless." He remembers dimly that he had heard and read something about wireless; but he thought that its use was confined to the sending of telegrams.

His wife explains that all the world over there are now splendid entertainment services by means of what is known as broadcasting. Many different programmes can be received by anyone who owns a wireless set, and these are to be found in more than eight million homes in Great Britain alone.

"Listen," she says; "this is Rome. . . . And this Paris. . . . And this, Stuttgart. . . . And this, Milan. But let's go back to London



and hear a talk from America on what is going on in the United States."

He listens, amazed, to a voice speaking English with an unfamiliar accent (there were no "talkies" when his sleep began) and explaining in a vivid manner intimately American problems from the American point of view.

"That is coming by wireless across the Atlantic," he hears his wife say. "As it is being relayed by our National stations anyone with an ordinary wireless set can hear it. But since this

is an 'all-wave' set—I'll tell you more about that later—we can tune in stations all over the world when conditions are favourable."

As the days pass, Rip Van Winkle's amazement grows. He is able now to work the instrument himself, to travel abroad in spirit whenever he wills, to bring the music, the doings, the atmosphere, and the thoughts of foreign countries or of different parts of his own right into his home.

Then comes the culminating wonder. He hears the Coronation Service in all its beauty; hears the descriptions of the procession, the strains of the bands as they pass by, the cheering of the crowds, the commands to the troops. And he knows from his newspaper that not just Britain, but the whole world, is listening.

That evening in "The Empire's Homage" voices of great men and of just ordinary men from all over the Empire come to him. And then, greatest moment of all, he hears the King speaking to him, to millions of his fellow-subjects at home and to millions in the farthest corners of the earth.

Wireless has, in fact, made it possible for one man sitting at his own study table to speak to the whole world.

## The Disappearance of Insularity

So much for the Rip Van Winkle that we have imagined. We may leave him with the marvels of television and of the ultra-short waves still to discover. And what of ourselves, who have seen broadcasting grow up? It is not easy for us to appreciate the changes in our lives, our thoughts and our habits that it has brought about, for we have grown up with it. But these changes have been enormous.

It used to be said, for example, that the inhabitants of this country were not politically-minded, whilst such was their insularity that they were amongst the world's worst linguists and neither knew nor cared in the main what was going on in foreign lands.

Broadcasting has entirely altered the attitude of the average man towards politics, civics, and foreign affairs by enabling him to hear talks, discussions, and debates on a multiplicity of subjects, which he no longer regards either as deadly dull or as quite beyond his understanding.

You have only to compare any "popular" newspaper of to-day with one of the pre-broadcasting era to see the difference in our interests. Far more space is now given to national and international problems—and the man in the street reads of them with much deeper understanding. Thanks to the microphone and to the amazing diversity of folk who appear before it, it is becoming rapidly less and less true that one half of the world does not know how the other half lives.

Through broadcasting, too, the Briton is becoming a very respectable linguist. Thousands upon thousands of our folk have learnt a good deal of Spanish, French, Italian, German, or some other foreign language entirely by the aid of the loudspeaker. Others who left school with some knowledge of them have not let their

(Continued in column 3, page 7)



# THE SALZBURG FESTIVAL

## HISTORICAL REVIEW OF MOZART'S BIRTHPLACE

FROM all parts of the world lovers of music and drama are preparing for the annual pilgrimage to Salzburg (immortalised as the home of Mozart), where every year one of the



Mozart

most notable musical festivals in Europe takes place. Situated amidst beautiful surroundings, with delightful promenades and buildings of majestic grandeur, Salzburg is the pearl among Alpine towns.

But it was its association with the genius of Mozart that brought fame to Salzburg long

before tourist propaganda began to advertise its charms.

It was Charles de Sterneck, a musician himself, who first conceived the idea of a music festival. In 1869 he formed the "Internationale Mozartstiftung" (International Mozart Foundation), and its constitution laid down that the authoritative and model production of Mozart's operas should become the main purpose of the new organisation. Nevertheless, when the first festival arranged by the Society took place in 1877 it consisted of four orchestral concerts only.

### History in Music

This beginning, insignificant as it may appear in view of what is offered to-day, has had very remarkable consequences during the sixty years that have elapsed since then. From the outset Austria's most important orchestra, the Vienna Philharmonic Orchestra, has been the officiating orchestral combination. Their programmes in subsequent years were not confined to Mozart, but included works by the classical and romantic masters and by the contemporary composers (Wagner and Brahms). The success of the Festival grew from year to year. The seed sown in 1877 had borne rich fruit.

With the passing years the scope of the Festival has been still more widely extended. This year—July 24 to August 31—it will consist of twenty-seven operatic and twelve dramatic performances, ten symphony and nine sacred concerts, in addition to a number of serenades and other musical items, making a total of sixty-five productions. The ten operas chosen for this year's programme will form a picture of opera history of one hundred and fifty years, beginning with Gluck's *Orphée et Eurydice*, which was written in 1762, and ending with Richard Strauss's *Der Rosenkavalier*, written in 1911.

### Concerts in the Cathedral

This year two anniversaries will be celebrated: that of a Mozart opera, and the other of Salzburg itself. In October it will be one hundred and fifty years since *Don Giovanni* was performed for the first time. To commemorate the event the production of the opera will be in the original form and in Italian. The centenary performance of the opera in 1887 was conducted by Hans Richter, and it was he who from that

time onwards never ceased to plead for a specially-built theatre in which to perform the Festival operas. It was not till 1927, however, that the "Festspielhaus" opened its doors. A number of improvements, due in the main to the initiative of Maestro Arturo Toscanini, have been effected this year.

Toscanini and Bruno Walter will again be the principal conductors. With them will be Wilhelm Furtwängler, Hans Knappertsbusch, Arthur Rodzinski, and Karl Krüger. The Cathedral concerts will be directed by Joseph Messner, and the Serenades by Bernhard Paumgartner. As in Mozart's day, the latter will be played in the courtyard of the Prince-Bishop's Residence. The Vienna State Opera House Singers will be augmented by singers from the Metropolitan Opera House, New York, and by famous Italian singers.

### The Festival Broadcasts

True to the South German tradition of the cultivation of the drama, the Festival programme

and with the coming of wireless it soon became clear that the latest achievement of science would soon enable millions of listeners throughout the world to participate in the artistic events of Salzburg. On August 24, 1925, Vienna took the first broadcast from Salzburg, and in the following year a number of German stations joined Austria on several occasions. In 1931 no fewer than one hundred and thirty-three stations were linked with Salzburg, and since then the transmissions from the Festival have certainly become the most important international broadcasts of a musical character. They have exercised the most profound influence on the international exchange of programmes and have thus accelerated the progress of world broadcasting generally.

### Vienna's New Headquarters

Recognising the effective means of publicity for the Salzburg Festivals which broadcasting has become, the Austrian broadcasting authorities have extended their invitation to the foreign representatives who are going to Vienna in August for the opening of the new Broadcasting House to include a visit to Salzburg also. It may be hoped that the representatives of the world's most important broadcasting organisa-



Salzburg, showing Hohensalzburg, formerly the castle of the Prince-Bishops

includes productions of Goethe's *Faust* (Part I) and Hoffmannsthal's mystery play *Everyman*, under the artistic direction of Max Reinhardt. There will be six performances of each play—the first in the old riding school cut in the rocks and adapted for the purpose by the well-known architect Holzmeister, and the second in the Cathedral Square.

From four Mozart concerts in 1877 to sixty-five productions this summer, the road has been long. During that time some wonderful evolutions in the sphere of technique and science have been brought about, evolutions that could not be foreseen or imagined and which have certainly made their influence felt at the Festivals.

The ever-increasing number of visitors stimulated an increased interest by the world's Press,

tions will feel the captivating charm which pervades Mozart's town. They will judge the high standard of the productions on their merit, and at the same time they will see the elaborate arrangements made by the Ravag authorities to deal with the broadcasts. There is little doubt that such visitors will take back with them lasting impressions of the town and the country, of the high level of art and culture which they have witnessed, and, above all, of the spirit which animates all artists no less than visitors who have come from north and south, from east and west. They will have convinced themselves that it is a spirit of the purest idealism—that idealism which Schiller had in mind when he wrote:—

"Denn aus der Kräfte schön vereintem Streben Erhebt sich, wirksam erst, das wahre Leben."



## BROADCAST OPERAS

## 8—The Love Philtre (Donizetti)

(To be broadcast from Rome and several European stations on Sunday, July 18, at 9 p.m., and repeated from Turin on Tuesday at the same hour.)

THE chief personages are:—Adina, well-to-do owner of a farm (Soprano), Nemorino, a peasant (Tenor)—Gigli is the singer on Sunday and Tuesday), Belcore, recruiting sergeant (Baritone), Dulcamara, vendor of quack remedies (Bass), Gianetta, a peasant girl (Soprano).

Although the best known number is "Una furtiva lagrima" (a silent tear), which Nemorino sings in Act 2, there is nothing in this merry opera to move an audience to tears: it is all capital fun, the best, so many think, of Donizetti's comic operas.

ACT 1. The first scene is on Adina's farm. She makes fun of Nemorino's shy wooing, and even laughs at the story of Tristram and Yseult, rejoicing that no magic potion in the nineteenth century can enslave a woman's care-free heart. "Chiedi all'aura lusinghiera" (Go, ask of yon light zephyr), she tells him. It is a florid air in the true Italian style. The



Scene from Act I of *The Love Philtre*, as presented at La Scala Theatre

scene changes to the village square. Belcore, the handsome sergeant with his soldiers, is there, and he is laying violent siege to Adina's heart.

The villagers chaff Nemorino mercilessly about his rival; Dulcamara appears, announcing his nostrums "Udite, o rustici" (Give ear, ye rustics). Nemorino is tempted by the offer of a love philtre which will win Adina for him, but he has no money with which to buy it. "Why not enlist?" asks Belcore: "Venti scudi" (twenty crowns), which every recruit receives, is the theme of their duet. Nemorino does so, and spends the money at once on the philtre. "Obligato, obligato" (thank you kindly), he and Dulcamara sing to one another. The potion is only cheap wine, and it makes Nemorino too gay for the moment to worry over Adina's

coldness. "Esalti pur al barbara" (Now the exulting cruel one), which they sing, is another charming duet. Adina, piqued, promises to accept Belcore, and as the soldiers are under orders to move, preparations for a hasty wedding are made.

ACT 2. A room in Adina's farmhouse. Her friends rejoice at the approaching wedding—"Cantiam, facciamo brindisi." Dulcamara produces what he calls the latest novelty from Venice, a barcarolle, which he and Adina sing "Io son ricco, e tu sei bella" (I am rich, as thou art fair). Then Nemorino, flirting with Gianetta, praises the wonderful love potion, "Dell'elisir mirabile," and Adina grieves to think that he no longer loves her. She vents her feelings in another duet with Dulcamara—

"Quanto amore." Only then does she learn of Nemorino's having enlisted for her sake: she buys his discharge from Belcore, gives it to him, and he tears it in pieces and throws it at her feet.

The thought that he might have died in battle is more than she can bear, and she falls into his arms. Belcore bears the blow with soldierly

fortitude; "there are thousands of others" he tells us. Dulcamara too is delighted that his potion has had so wonderful an effect, and takes care to impress its virtues on the village. So everyone is made happy, the more so as Nemorino learns that his rich uncle has died and made him heir to substantial wealth: he can now wed Adina as an equal, and not a humble suitor.

So full is the opera of flowing melody, so happily does the music illustrate the mirthful story, that its popularity in our grandfathers' and fathers' days is easy to understand. Why it ever fell into comparative neglect—except in its native Italy—is a question which it is not so easy to answer, as most listeners in the coming week are certain to agree.

## ITALIAN STUDIO OPERA

In the course of the present EIAR season of opera, which began in June and lasts until November 30, the following operas have been or will be broadcast:—

Alfano's "Resurrection"	Gounod's "Faust"
Barbieri's "Alcassino and Nicoletta"	Gui's "La Fata Malerba"
Bellini's "Norma"	Lattuada's "Le Preziose Ridicole" (Molière's Les Précieuses Ridicules)
Casella's "La Giara"	Les Précieuses
Catalani's "Wally"	Ridicules)
Charpentier's "Louise"	Lualdi's "La Grangeola"
Cilea's "Adriana Lecouvreur"	Malipiero's "Il Festino"
Donaudy's "Sperduti nel Buio"	Malipiero's "St. Francis of Assisi"
Donizetti's "L'Elisir d'Amore"	Mascagni's "Iris"
Giordano's "Fedora"	Mascagni's "Isabeau"
Giordano's "Siberia"	Massenet's "Thais"
	Mulè's "La Monacella della Fontana"

Mussorgsky's "Kovantchina"	Respighi's "Primavera" (Spring)
Offenbach's "Tales of Hoffmann"	Rocca's "In Terra di Leggenda"
Pedrollo's "Primavera Fiorentina"	Rossini's "The Barber of Seville"
Perosi's "La Risurrezione Di Cristo" (oratorio)	Richard Strauss's "Ariadne at Naxos"
Pick Mangiagalli's "Notturmo romantico"	Richard Strauss's "Salome"
Pizzetti's "La Rappresentazione di Sant'Uliva"	Verdi's "Don Carlos"
Puccini's "La Bohème"	Verdi's "Ernani"
Puccini's "Madam Butterfly"	Verdi's "Il Trovatore"
Puccini's "Manon Lescaut"	Wagner's "Lohengrin"
Refice's "La Samaritana"	Wagner's "Das Rheingold"
Rendano's "Consuelo"	Wolf-Ferrari's "Le Donne Curiose"
Respighi's "La Bella Dormiente nel Bosco"	Zandonai's "I Cavalieri Di Ekebù"
	Zandonai's "Romco and Juliet"

## THE VICEROY'S BROADCAST

NEW DELHI.

THE Viceroy's broadcast on June 21 was a landmark in Indian broadcasting. For the first time in its short history it fell to the lot of All India Radio to convey to its vast army of listeners all over India a political pronouncement of the utmost importance and gravity from the highest person in authority in India—the representative of his Majesty the King. It is estimated that not less than fifty thousand people tuned in their sets to hear his Excellency speak, while radio dealers and shopkeepers were flooded with requests to give standing room to enthusiastic crowds on the Mall on 7,000-ft.-high Simla, in the glittering, age-old bazars of Delhi, and in the fashionable promenades, and outside shops in the more modern cities of Bombay, Calcutta, and Madras.

The broadcast involved difficult technical problems, and the utilisation, at comparatively short notice, of about 11,000 miles of telegraphic wires all over the sub-continent of India. One has only to remember that even if a kite carrying a dead snake had dropped the snake on any part of the 11,000 miles of wires, or a branch of a tree had fallen across the line accidentally, the whole broadcast would have been completely wrecked.

A staff of fifty telegraph engineers were at various points in India watching these thousands of miles of wire over which the Viceroy's voice was carried to the broadcasting stations at Delhi, Lahore, Peshawar, Bombay, Madras, Kirkee, and Calcutta. Monsoon conditions added to the worries of the engineers, and it was due to their unceasing vigilance and prompt action that the broadcast was such a success all over the country. From the point of view of quality, tone, volume, and clarity of reception, the broadcast is regarded by competent authorities as one of the best ever given by the All India Radio.

R. L. R.

## PROGRESS IN CEYLON

(From a Correspondent)

MR. J. B. CLARK, Director of the Empire Service of the British Broadcasting Corporation, while visiting Ceylon recently was present when the new transmitting station was opened by the Hon. Mr. J. L. Kotalawala, the Minister of Communications. Regular broadcasting in Ceylon is a comparatively recent institution. A service was started in 1923, with a very small room for a transmitting station in the Central Telegraph Office at Colombo. The present studio has been equipped with a 5 kW transmitter, which is a product of the Island itself, having been designed and built by the Ceylon Radio Department. The station at present works on a 428.5 metre range and broadcasts programmes every day of the week except on Sundays. Oriental music is a special feature.

## WAVELENGTH CHANGES IN ITALY

The 10 kW transmitter at Genoa which hitherto has been operating on a wavelength of 304.4 m. is about to join Turin and Trieste in the use of their common-wave, i.e., 263.2 m. Preparatory to the change-over extensive experiments have been made and the authorities claim that the results are so good that, when the change-over has been made, it will be difficult to tell which of the three stations is transmitting. Of course, so far as distant reception is concerned, it remains to be seen whether there is any interference. Genoa's old wavelength will be allotted to the new high-power transmitter, Bologna, which at present operates on 245.5 metres.



ATLANTIC DIVERSIONS

# Radio Conquers the "Back o' Beyond"

"AUNT RAINEY" AND "UNCLE EV" TELL NEW YORK

THE strange piece of back-country popularised in American legend and song as the "land of the hillbillies" and for long the United States' last remaining outpost, has been penetrated by radio. In these Kentucky fastnesses, where the native folks depend upon the old-time spinning wheel, the tallow light, and the good corn bread, the telephone and electric lines, which changed the rest of the country, never spread their blessings. For three centuries the Kentucky mountaineer has led a life of almost complete isolation. He still has his own dialect, his own songs, and his own social system, handed down from generation to generation and traceable to ancestors in England.



"Aunt Rainey," the 84-year-old woman at Lott's Creek, during a broadcast interview

Until a few years ago these mountain people comprehended no life but their own. Seven years ago, at Lexington, the University of Kentucky designed and erected a unique broadcasting station—a station that had no interest in commercial success, in large audiences, or in super-programmes. It was interested solely in serving five simple radio sets. The University of Kentucky recognised, in 1930, that if the mountaineers of Kentucky and Tennessee would not come out to the world, there had at last been found the instrument that would "take" the world to the mountains.

### Mountain Listening Posts

The five simple broadcast sets which the University station served were the sets in the five original mountain listening posts, log cabin centres in the most remote districts, where many of the inhabitants heard by radio, for the first time, voices of an outside American. The University inaugurated a daily programme, "School of the Air." From that beginning the station now serves twenty-five personally-sponsored community listening centres in the south-eastern Kentucky hills alone.

The University of Kentucky financed the early listening-post plan by calling in and repairing in the school workshops receivers of the townspeople. Those which owners no longer wanted were salvaged, overhauled, and rebuilt by college students and sent to the mountain centres. Some of these original receivers are still in service, although they are being replaced as rapidly as possible with battery receivers, some all-wave. Now, reports the University, hundreds of the folks who live in the mountains accept it as the

crowning point of the day's routine to gather round at night to hear the local weather forecast ("because the radio man has beaten grand-pappy's predictions all hollow"), to get the grain and lumber prices, and, still more important, those agriculture instructions that "somehow" have helped grow so much larger crops.

### Lott's Creek Calling

A typical mountain listening post is the one at Lott's Creek, Knott County, Kentucky, whence the CBS recently broadcast a nation-wide programme. So isolated is the Lott's Creek hamlet that network communication from there was established only by means of a petrol generator and a short-wave transmitter, by which the broadcast was carried to the nearest land line, in the town of Hazard, Kentucky, several miles away. At Lott's Creek the mail is running to schedule when it gets in three times a week! The road to the settlement is passable to motor-cars only at certain times of the year, and no one attempts to improve it, so few are the occasions on which the inhabitants leave their homes or the times when they have "outland" visitors. CBS engineers solved the transportation problem by bringing in their broadcasting equipment by mule-pack up an old gravel creek bed.

In this, the first nation-wide broadcast ever arranged from this isolated community, the mountain folks showed excellent adaptability before the microphone. Interviews were given by 84-year-old "Aunt Rainey," whose only difficulty was in believing that her voice was actually being heard by "listeners in New York." "Uncle Ev" told of the changes that had come over Lott's Creek since "radio came in." When asked about the favourite programme, the audience, who were gathered around the announcer, answered that they liked them all—everything, the more the better. The daily news broadcasts in particular had brought them a new perspective, and the weather forecasts and planting forecasts were aids heretofore unknown in this strange heart of America. Later the nation-wide listeners were given a sample of the real "hillbilly" music, the rhythm that someone carried out of these same mountains to become a musical sensation in the glossy spots of the West Coast, 52nd Street, and Mayfair, too.

G. M. L.

### A WORLD-GATHERING OF YOUTH

MORE than 25,000 Boy Scouts from all parts of the world will attend the international Jamboree to be held in Holland from July 31 to August 13.

The British Empire contingent will be 8,000 strong—the largest ever sent abroad. China and Mexico will be represented for the first time. The Swedish contingent will be under the leadership of Prince Gustav Adolf of Sweden, the new President of the International Boy Scouts' Organisations. Her Majesty the Queen of Holland will perform the opening ceremony.

A preliminary talk describing the arrangements for the gathering was broadcast from Hilversum (1,875 m.) on Monday last and at 8.55 p.m. on Tuesday next there will be another transmission from Hilversum arranged by the Dutch Boy Scouts' organisation, entitled "Boy Scouts sing to Boy Scouts."

### RIP VAN WINKLE AWAKES TO BROADCASTING

(Continued from page 4)

languages grow rusty by disuse, as their fathers and mothers so often did. The wireless set, with its power of bringing transmissions from abroad into one's own home, has seen to that.

### Influence on Travel

We travel a great deal more than we did; you have only to look at the vast numbers of advertisements of cruises and of tours on the Continent to realise that. I don't know that travelling is much cheaper or much easier than it used to be. Certainly, it is not sufficiently so to account entirely or even mainly for the huge increase that has taken place. I believe that travelling in imagination with the tuning knob of the wireless set has been the chief stimulant of travels in the flesh. Before broadcasting came, foreign countries were unknown places, and the unknown is apt to be forbidding. Nowadays the wireless set brings most of Europe into our homes. Foreign countries no longer seem unfamiliar places; we get to know something of them at home and then long to go and see the places in which live the people whose voices and whose music we hear so often.

And these things are true not only of Britain, but of all the world's countries where broadcasting has been established—though some nations are for the moment prevented by currency difficulties from travelling as much and as widely as otherwise they would. If we are becoming better at foreign languages, so are other peoples; and English is one of the chief languages that wireless is teaching them. If we are taking more interest in the affairs of other countries and in the way in which their inhabitants live and work and think, they are doing the same in relation to us.

Wireless knows no frontiers. Nation speaks unto nation to-day, and even for listeners who understand no spoken language but their own there is the common language of music which has its message for all.

### PARIS PALACE OF RADIO OPENS

POSTPONED owing to the changes of Government, the Palace of Radio at the Paris Exhibition has at last been opened. The ceremony was robbed of much of its colour, owing, no doubt, to the political vicissitudes of the last few weeks.

The new Minister of P.T.T., M. Jean Baptiste Lebas, was unable to be present, and the speeches of those who did take part—M. Marcel Prévost, of the French Academy, M. Edmond Labbé, General Commissioner of the Exhibition, and M. Fernand Chapsal, Minister of Commerce and Industry—were heard only by those lucky enough to be in the immediate vicinity and by distant listeners to the broadcasts. The microphones in the Palace were not connected to amplifiers or loudspeakers because of the incomplete condition of the installation.

There was not time to erect a permanent "Broadcasting House" for the Exhibition, as was originally intended, and a temporary building has been constructed just above the Point Alexandre III, on the right bank of the Seine. It is a three-storey building with a tower, almost like an up-ended mattress, on which there are luminous designs in neon tubes. This forms the main part of the decorative lighting, which, by night, is very effective. On the Seine side the Palace has been undercut to form a covered terrace or arcade, which reduces the floor space, and is meant as a precaution against Seine floods.

The staging of exhibits in the Palace of Radio had not been completed at the time of going to press. Next week we hope to give a fuller account of the Exhibition.



# TELEVISION NEWS AND PROGRAMMES

## Davis Cup Matches for Viewers

By "THE SEER"

IF the entertainment already presented in television has scored more successes than failures—and a critical public does concede this—the feat has been achieved in spite of the fact that nearly all the programmes have been foster-children. So far, television has had few children of its own. It has had to cultivate the offspring of the theatre and music-hall, submitting them in many cases to a reducing process which only their inherent vitality has enabled them to survive.

Fortunately, the reducing has often been incredibly well done. Incredible, for example, was the treatment applied to *Derby Day* last week, when A. P. Herbert's brilliant light opera was reduced to a 40-minute performance without sacrificing the story or surrendering the essential qualities of Alfred Reynolds's music. Despite the tiny screen, Stephen Thomas, the producer, projected the opera in the round, so to speak, to such an extent that viewers felt as they switched off that they had been present in the theatre. *Derby Day* will be repeated in the evening programme on Monday next, July 19.

"C'est magnifique, mais ce n'est pas la guerre." Television must in time produce its own original material, remembering that it is a new art medium, not a makeshift, not a compromise with existing media, and that it can stand on its own feet in company with the theatre and the screen.

Already originality has seeped in. Once or twice an existing work has been so transmogrified for television as to create something new, an example being Thornton Wilder's *Happy Journey to Trenton and Camden*; and at least two plays have been specially written and presented for television. Incidentally, the authors of both were women. One of them—Nino Bartholomew, who wrote the Goldsmith play, *April Showers*—has prepared a television play dealing with the discovery of chloroform and introducing the dramatic scene in which, in 1847, Dr. James Simpson and his fellow research workers nearly anaesthetised themselves beyond recall. The play will be presented in the autumn.

Another original play now on the stocks is concerned with a murder in the television studio. Viewers may be called upon to solve the mystery.

\* \* \* \*

Tennis is such good television material that one can hardly have too much of it. Arrangements have now been made to televise the Davis Cup matches from the Centre Court at Wimbledon on July 17, 19, and 20, when short relays of the Inter-Zone Finals will be given between 3 and 4 p.m. The Challenge Round will also be televised, beginning on July 24; and, in order to include the whole of this important event, special relays will be given on July 26 and 27, although the normal television programmes are closing down for three weeks on July 24.

As before, two cameras will be used, one near the south-west corner of the court to give near and panoramic views, and the other in a fixed position at the other end to give a general view of the play and spectators.

\* \* \* \*

The BBC Television Orchestra has been honoured in that one of its members, Ken Gray, has been selected to play the solo part in Eric Coates's *Saxo Rhapsody*, which the composer will conduct in a television presentation of the work on July 20 and 22. The *Saxo Rhapsody*, which was first broadcast in this country in

January last, is dedicated to the distinguished Danish saxophonist, Sigurd Rascher. Although it is essentially melodic, the Rhapsody is of considerable technical difficulty. Eric Coates will also conduct one of his earlier works, *The Merry-makers, I Pitched my Lonely Caravan*, and, of course, the "Knightsbridge March," which became famous as the signature tune to "In Town To-night."

\* \* \* \*

Shakespeare seems infinitely adaptable to all forms of presentation, television being no exception. During the autumn Shakespearian excerpts will be continued, the first choice being *Romeo and Juliet*, with Jean Forbes Robertson as Juliet.

Ibsen is to be featured in television. Excerpts from *Peer Gynt* will be given in September, the title-part being played by William Devlin,



A televised scene from A. P. Herbert's *Derby Day*

who took the rôle in two seasons at the Old Vic and is already familiar to viewers for his fine performances as Clemenceau in *The Tiger* and as Michael Ransome in *The Ascent of F 6*.

## THREE CENTRES FOR ITALY

Rome, Milan, and Turin

IN Italy television is on the point of passing from the experimental to the practical domain. It has been decided to establish three television centres, which will be situated in Rome, Milan, and Turin. The three centres will be linked by special cable capable of transmitting, with the minimum of attenuation, very high frequencies and of carrying simultaneously the same programme to either two or three of those centres. A wavelength of 7 metres will be used for the Italian television programmes.

In view of the limited radius of television signals, the districts which will at first be served will be only those in the neighbourhood of Rome, Milan, and Turin. Nevertheless, it has been decided to extend the service to the principal cities of the peninsula, and the cables connecting those centres will be so arranged that television programmes may be transmitted either singly, in groups, or over the whole circuit.

## Next Week's Events

Frequencies—Vision: 45 Mc/s; Sound: 41.5 Mc/s. All programme times shown below are approximate.

### MONDAY, July 19

- 3.0 p.m.—Film: "Lobsters"; relays from the Inter-Zone Final of the Davis Cup at Wimbledon at intervals until 4.0 p.m.
- 3.10—"Derby Day": comic opera by A. P. Herbert; Music by Alfred Reynolds.
- 3.50—British Movietone news.
- 4.0—Close.
- 9.0—Film: "Ladybirds."
- 9.10—"Derby Day" (See 3.10).
- 9.50—Gaumont British News. 10.0—Close.

### TUESDAY, July 20

- 3.0 p.m.—"The Man with the Flower in his Mouth": a dialogue by Luigi Pirandello. Inter-Zone Final of the Davis Cup at Wimbledon at intervals until 4.0.
- 3.15—Film: "Ladybirds."
- 3.25—BBC Television Orchestra conducted by Eric Coates.
- 3.50—Gaumont British News.
- 4.0—Close.
- 9.0—The John Carr Jacquard Puppets.
- 9.15—Film: "Lobsters."
- 9.25—Cabaret.
- 9.50—British Movietone news. 10.0—Close.

### WEDNESDAY, July 21

- 3.0 p.m.—Ernest Mills (Cartoonist).
- 3.10—Girls and Boys come out to play: Outside Broadcast in the Alexandra Palace Grounds—weather permitting.
- 3.15—The Dancers of Don in a programme of Scottish Country Dances.
- 3.25—British Movietone news.
- 3.35—"Ad Lib.": revue by Herbert Farjeon.
- 4.0—Close.
- 9.0—Marie Eve in Continental Songs.
- 9.10—Ernest Mills (Cartoonist).
- 9.25—Gaumont British News.
- 9.35—The Mizzen Crosstrees: Revue of nautical songs and dances. 10.0—Close.

### THURSDAY, July 22

- 3.0 p.m.—Starlight: Elsie Carlisle in comedy songs.
- 3.10—Expedition on a bicycle: Myfanwy Evans.
- 3.25—Gaumont British News.
- 3.35—Cabaret.
- 4.0—Close.
- 9.0—"The Man with the Flower in his Mouth": a dialogue by Luigi Pirandello.
- 9.15—Film: "Mickey's Pal Pluto"—a Walt Disney cartoon.
- 9.25—BBC Television Orchestra conducted by Eric Coates.
- 9.50—British Movietone news. 10.0—Close.

### FRIDAY, July 23

- 3.0 p.m.—"Pyramus and Thisbe": a most lamentable comedy contained in "A Midsummer Night's Dream," by William Shakespeare.
- 3.15—Film: "Mickey's Pal Pluto"—a Walt Disney cartoon.
- 3.25—The Mizzen Crosstrees: Revue of nautical songs and dances.
- 3.50—British Movietone news.
- 4.0—Close.
- 9.0—"The Raft": an interlude by Stephen Leacock.
- 9.15—Film: "Bugle from Blue Grass."
- 9.25—"Ad Lib.": revue by Herbert Farjeon.
- 9.50—Gaumont British News. 10.0—Close.

### SATURDAY, July 24

- 2.30 p.m.—The Davis Cup: relay from the Challenge Round at Wimbledon.
- 3.0—In Our Garden—C. H. Middleton; short relays from Wimbledon at intervals until 4.0
- 3.15—The John Carr Jacquard Puppets.
- 3.25—Gaumont British News.
- 3.35—Review of Revues.
- 4.0—Close.
- 9.0—Starlight: Elsie Carlisle in comedy songs.
- 9.10—Summer Gardening—C. H. Middleton.
- 9.25—British Movietone news.
- 9.35—Review of Revues. 10.0—Close.



# Letters to the Editor

## UNRELIABLE PROGRAMMES

SIR,—Many of your readers who depend upon the WORLD-RADIO programmes to follow transmissions from the Continent must be very disappointed, to say the least, with the unpunctuality and unreliability of a number of those programmes.

Most of us realise, of course, that the programmes are supplied by the stations themselves, and that you are helpless in the matter. (Some of the French private—and occasionally the State—stations are particularly unsatisfactory in this respect.) No doubt other readers would hold the stations of other countries to be more blameworthy than the French.

With the great improvement recently in the French programmes it seems the more regrettable that their printed programmes are not more reliable.

Yours faithfully,  
FRANCOPHILE.

London, July 6.

## DAYLIGHT BROADCASTS

SIR,—A few weeks ago, some correspondence appeared in WORLD-RADIO upon the subject of stations receivable in daylight. Now, it seems to me, Kalundborg, Stockholm, Warsaw programmes begin too late, while the programmes are overloaded with the following stations, which are unreceivable until evening on any set likely to be in the possession of the ordinary listener:—

- 1 p.m.: All German stations except Cologne and Deutschlandsender.
- 2 p.m.: Berlin, Breslau, Munich, and Strasbourg.
- 3 p.m.: Same as 1 p.m., plus Strasbourg.
- 4 p.m.: Ditto.
- 5 p.m.: Ditto, plus Prague and Beromünster.

This is only a very hurried analysis, and I may have missed some stations either way; but

I think it does show that there is room for at least some readjustment.

Yours faithfully,  
C. J. OLIVE.  
London, N.W.3.

## DID YOU HEAR THIS ?

SIR,—Could you kindly explain the following enigma?

Tuning in to Brasov to-night at 9 p.m. I heard community singing by English voices of some old favourites, including "Tipperary" and "Daisy Bell." This was followed by a speech in German and then community singing in English of a song the chorus of which was "Damn the League, damn the League."

Thanking you in anticipation,  
Yours truly,  
BERNARD MERIVALE.

London, W.14, July 6.

[The station to which our correspondent was listening was evidently Hilversum 1, which uses the same frequency as Brasov (Radio-Romania). Hilversum broadcast at the hour mentioned a programme of Boy Scouts' songs, but we doubt very much whether these included one with the chorus mentioned by our correspondent.—Ed.]

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.

### SUBSCRIPTION RATES

12 months Inland and Canadian, 13s.  
12 months (Foreign), 15s.  
Other periods pro rata. Prices include postage.  
Subscriptions to Publications Dept., Broadcasting House, London, W.1, or 35, Marylebone High St., London, W.1.

# Which station was that?

This feature is intended for the use of readers who desire the identification of broadcasting stations only, whether on long, medium, or short waves. For particulars of amateur transmissions, readers are referred to the relevant paragraph below.

## 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."

**LOG-KEEPER (Penzance):** (56) commercial transmitter relaying Oslo programme; please see paragraph under heading of this column; (57) so far, Salamanca broadcasts have only been heard on 23.4 and 46.8 m.; cannot trace any transmission on 27 m. band; (58) fourth harmonic of Poste Parisien (Paris), 78.2 m. **SWINGER (N.W.6):** (1) Polskie Radio SPW, No. 5, Mazowiecka, Warsaw, Poland; (2) COCQ, Calle, 25, No. 445, Vedado, Havana, Cuba; (3) CSL, Lisbon (48.78 m.); National Broadcasting short-wave station, Lisbon, Portugal. **S.W. FAN (Thongsbridge):** COCQ, Calle, 25, No. 445, Vedado, Havana, Cuba, on 30.77 m.; said to be working on a power of 3 kW. **LESELS (Carshalton):** (1) we understand that this station has now closed down; its schedule was Sundays, B.S.T. 14.00-16.00; Thursdays, B.S.T. 20.00-21.00; (2) Belgrade, B.S.T. 07.15-09.00; 13.30-15.00, and 20.00-22.00; (3) HJ3ABX, Bogota (Colombia), on 49 m.; **XEWV, Mexico City (Mexico):** HP5H, The Voice of Colon, Colon (Panama); TIEP, San José, Costa Rica; (4) you do not say which station; there are several transmitters in Caracas (Venez.). **P.B.T. (Ilford):** Your details are too vague to permit identification; there is no French station working on 32.6 m.; FVA, Algiers (N. Africa), operates on 33.48 m. or you may have heard the eleventh harmonic of Radio Strasbourg (31.75 m.). **UNEXPECTED HAL (Birmingham):** So far as we know, no relay was made of this broadcast by any European station; the only transmitter in the NBC network on or near your wavelength is KOH, Reno (Nevada), 500 watts, on 217.3 m.; the other stations were WTAM, Cleveland (280.2 m.), and WENR, Chicago (344.6 m.). **SWING MUSIC (Little Budworth):** XEWV, Mexico City (Mexico), on 31.58 m. **RICUTA (Glasgow):** WIXAL, Boston (U.S.A.), 25.45 m. **EVANS (Chester):** Regret, cannot trace; there is a possibility that this was due to a "break-through" of an

amateur transmission in your immediate vicinity. **PEGLEG (Loughborough):** HJ1ABP, Cartagena (Colombia), on 31.25 m. **JACKO (Tunbridge Wells):** MTCY, Hsinking (Shinkyō), Manchukuo, is a 100-kW transmitter working on 535.7 m.; this would appear to have been relayed through a short-wave channel; possibly JMO4, Shinkyō, 18.86 m. (20 kW). **CELA (Doncaster):** VK3LR, Lyndhurst (Victoria), on 9.58 Mc/s. **SHORT-WAVES (Bow):** (1) FVA, Algiers (33.48 m.); (2) you do not say what you heard; the wavelength would tally with that of Jelōy; (3) ORK, Ruysselede (Belgium), on 29.04 m. **FOEL-TRIGARN (Pembroke):** (437) Radio Catolica Portuguesa, Lisbon, last reported on 50.25 m.; (438) time tallies with JVM, Tokio-Nazaki, on 27.93 m.; there is no Spanish transmitter on or near that channel. **ANXIOUS (Kirkcaldy):** Regret, cannot trace.

## IDENTIFICATION COUPON (No. 440)

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. A copy of the answers should be enclosed with FREE queries. 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.)

## BOOK REVIEW

*La Radiodiffusion: Puissance Mondiale.* By ARNO HUTH. (Paris: Librairie Gallimard.)

OF the making of books—historical, technical, and general—on wireless there appears to be no end. But we cannot remember one which combines in so complete or useful a form as Dr. Huth's the first and the third of those categories—it makes no pretence to enter the technical field. Here is a book which should make a direct appeal to all listeners who take any interest in "how it all happened" of radio or in the broadcasting systems of other countries—in short, to WORLD-RADIO readers.

Dr. Huth's book carries a foreword by Marchese Marconi congratulating the author upon his "attractive presentment of an enormous quantity of information on the subject of broadcasting." And well he deserves these congratulations. The author, for his part, gives generous acknowledgment to all those broadcasting authorities throughout the world who have given the help which has enabled him to compile so complete a body of trustworthy information.

The scope of the book will be best appreciated by the titles of the various sections: 1. "The Birth and Development of Broadcasting"; 2. "The Present Position of Radio"; 3. "The Organisation of Broadcasting throughout the World"; 4. "The Importance of Broadcasting"; 5. "The Future of Radio." Of the first section it is sufficient to say that in its relatively few pages it presents as complete and accurate an account of the beginnings of radio as we remember to have read. Here Dr. Huth answers, in a few words, those who sometimes ask, "Who invented broadcasting?" "Broadcasting," he says, "is less an invention, properly speaking, than the ingenious exploitation of natural phenomena, the direct consequence and synthesis of technical and scientific research. It was born, in the laboratory of the physicist and the engineer, of radiotelegraphy and radiotelephony."

It is, perhaps, the third section which will be most frequently referred to, for here we have the main results of Dr. Huth's indefatigable researches into the broadcasting systems throughout the world. Does the reader wish to know, without delay, the number of broadcasting stations in any particular country, their power, the number of their listeners, the cost of licences, or the character of their administration? The facts are at once available in this book. But the addition to this information of wavelengths and frequencies would be useful. Perhaps this feature will be added in the next edition of the book, for it is unlikely that so eminently useful a work of reference will for long be confined to its first edition.

## AMATEUR TRANSMITTERS

The identity of amateur transmitters may be found in the "Radio Amateur Call Book." The Summer Edition (price 6s. post free) can be obtained from the BBC Publications Management Offices, 35, Marylebone High Street, London, W.1. The 1937 Edition of the "Radio Amateur Handbook," price 5s. 6d. post free, can also be had from the above address.

## Esperanto Transmissions

18th to 24th July, 1937.

Sunday: Lille (PTT) 9.30 a.m. Leçiono kaj Rakontoj. Monday: Radio-Normandie, inter 9 kaj 10 p.m. Kroniko. Tuesday: Moravská-Ostrava, 6.00 p.m. Parolado pri Moraviaj Kutimoj. Tallinn, 8 p.m. Estona Kulturo. Rio de Janeiro (31.58 m.) 11.30 p.m. Informoj pri Brazilo. Wednesday: Paris (PTT) and relays, 2.00 p.m. Course. Barcelona (40 m.) 9.10 p.m. Bulteno pri la Hispana Milito. Friday: Vienna ĉirkaŭ 10.20 p.m. Somerfestaj Arangoj ĉe Lago de Wirth en Karentio. Saturday: Hilversum (1,875 m.) 4.20 p.m. Unuhora Elsendo memore al la 50 jara Ekzisto de Esperanto. Rome (medium and short-wave) 7.00 p.m. Turismaj Vidindaĵoj en Italujo. Lyons (PTT) 8 p.m. Blindula Kroniko. Barcelona (40 m.) 9.10 p.m. Informoj pri la Hispana Milito.



# Radiolympia 1937

LOOKING FORWARD TO THIS YEAR'S EXHIBITION

WITH recollections of past Radiolympia exhibitions in our minds, it is appropriate at this time of the year that we should consider what the immediate future holds for radio and, in particular, what the next radio exhibition will bring to the listening public.

We can very easily visualise those things which have formed the background for previous Radiolympia shows—the crowds, the torrid heat under the glass roof, the posters in the wireless shops—not only in London but all over the country—which invite us to visit the show and, in the case of last year's show, the television exhibit with its seemingly endless queue of "viewers." To the casual visitor, these impressions are apt to be more lasting than those of the exhibits themselves!

The indications are that the coming show, which will be held this year from Wednesday, August 25 to Saturday, September 4, will produce general improvements without any really startling innovations.

During the past year, the battery-operated portable receiver has enjoyed another wave of popularity; probably because of the fact that manufacturers have produced *really* portable sets. There are now numerous sets on the market which are very small and light, and which nevertheless produce better results than many of the older heavyweight sets which were portable in name only. We can expect further developments in receivers of this type; component parts are now both smaller and neater than their equivalents of a few years ago and designers have more scope for exercising ingenuity in producing compact sets. Small portable receivers of the modern battery type can fill a definite requirement on many occasions.

## All-Wave Receivers

During the past year, the majority of receivers sold at prices above ten pounds have been of the all-wave type, and the receiver without at least one short-wave tuning range will probably have disappeared entirely by the time the next show opens, with the exception of the small portable types. Whilst the majority of receivers priced at ten pounds or more are at the present time capable of producing quite good results on the short-wave bands, the short-wave tuning range which is sometimes incorporated in some of the smaller sets is not particularly effective, owing to the low sensitivity of such receivers. Some advancement which would produce greater sensitivity below 50 metres in the smaller receivers would be very welcome.

Receivers in the *de-luxe* class, using more than five valves and selling at varying prices from about 25 guineas upwards, are coming to the fore and will probably make their appearance in greater numbers at the next show. A considerable number of listeners now appreciate the fact that a really large receiver can be capable of producing results far and away superior to those obtainable from the smaller "popular" type of set.

A listener who is able and willing to afford the price of such a set is generally well rewarded by the possession of a set which is definitely able to perform just so much better than a smaller set. Until recently, the difficulty has been that few firms in this country have paid much attention to sets of this type, being content to concentrate on those which fall in the "popular price" class. We can certainly look for advances in receivers of this type.

## Improvements in Tuning

General simplification of tuning—particularly on the short-wave bands—by the use of really large tuning dials, will be featured in many new receivers. Previously, the inclination has been to make the speaker grill the centre of attraction in the average set. Now the tendency is to concentrate on the tuning dial as the centre-piece of the set, which is all to the good.

A technical development which will probably make itself evident in many receivers to be produced in the future is the introduction in



A general view of last year's Radio Exhibition

this country by English manufacturers of American-type valves using the so-called octal base. This is an eight-pin base with a slotted "key" in the centre which makes insertion of the valves in the sockets an extremely easy matter, even where the socket is in a "blind" position. These valves have characteristics similar to those of American valves, and, amongst other features, represent a considerable reduction in filament wattage over the usual type of British A.C. valve.

Consequent upon the general introduction of the all-wave receiver, short-wave converters and adaptors have lost their popularity to some extent, as they are now only of use with the older type of receiving set, or for small modern receivers which do not incorporate a short-wave tuning range.

## Television Receivers

A general price reduction in television receivers has already taken place and whether any further reductions will be announced by the time the next show opens remains to be seen. The transmission of programmes by one system instead of two, as was formerly the case, has brought about a simplification in television receivers which should contribute towards the lower cost of future models.

These, then, are some of the features we may hope to find at Radiolympia next month.

M. B.

## Selecting Alternative Transmissions

AT the present day many broadcast programmes are radiated simultaneously from a number of stations—often of widely varying power—in different localities. If one wishes to hear a particular programme, therefore, there may be a number of different points on the tuning dial where it may be picked up, and the problem is to select the transmission that will give the best reception. The best method of finding out is, of course, the practical one of noting all the stations transmitting a given programme, and trying them in turn.

When interference is prevalent, the quietest background will usually be obtained when receiving the most powerful signal. Interference is, however, sometimes stronger on a particular part of the waveband, and a rather weaker signal on another wavelength might then give a lower "background." On a set employing an efficient automatic volume control, all stations tend to come in at about the same strength on the loudspeaker, but if a tuning indicator is fitted the relative strengths of different stations may be estimated by observing the latter; the strongest stations give the greatest deflection when correctly tuned. At night the daylight conditions may be reversed. Thus, it may be found that a long-wave station gives the strongest signal in daylight, while at night the same programme may be best received via a station on the medium waves.

## Avoiding Heterodyne Whistles

When a whistle, caused by two stations working too close together in frequency is experienced, it is often possible to pick up the transmission free of interference on another part of the waveband. Even if the alternative station is weaker, a certain amount of background hiss is usually preferable to a penetrating whistle. When a receiver is not sufficiently selective to cut out an interfering programme, the wanted programme may sometimes be obtained from a station on another part of the waveband where it is more favourably related in power to its neighbours. This applies more particularly to reception of distant stations.

Fading of distant stations is another trouble that may often be partly overcome by choice of a suitable alternative wavelength when available. The longer the wavelength of a station the less likely it is to fade, though when it does fade it usually stays "out" for a longer period than a station of shorter wavelength.

During daylight, and at other times when conditions are bad for reception of distant medium or long-wave stations, it is sometimes possible to receive their programmes through a short-wave station.

B. A. M.

## ACOUSTICS IN THE LISTENER'S HOME

(Continued from page opposite)

It is interesting to note that similar effects occur in the broadcasting studio itself. They are of great importance in talks studios, which are generally similar in size to the room considered above. The result is liable to be a considerable increase of some of the lower tones of certain types of voice, giving a boomy effect, owing to the effect of the air resonance in increasing the efficiency of the voice and in spite of the fact that reverberation measurement gives no indication of any boomy quality in the studio. In larger studios, such as those used for orchestral purposes, the problem does not appear to arise to any appreciable extent, since the more important air resonances occur only at frequencies well below 50 cycles per second. (To be concluded next week.)



# Acoustics in the Listener's Home

By A. B. HOWE, M.Sc., A.R.C.S., Research Dept., BBC

(Continued from page 12, July 9)

THE measurement of reverberation time, already described, does not, however, tell the whole story as regards the reproduction of the various parts of the frequency scale, any more than it does in studios, particularly of the smaller type. To understand the reason it is necessary to consider briefly what may be called "air resonance."

The decay of sound in a room, which we call "reverberation," is usually considered to be due to the random reflection of sound waves in all directions from the various surfaces in the room, so that the sound energy is uniformly distributed throughout the room. This is largely true for most frequencies in a very large studio or concert hall and for the higher frequencies in a small room. To see what happens at the lower frequencies we must think of some of the further consequences of the fact that sound consists of a wave motion through the air.

Fig. 2 (a) represents diagrammatically the position at a single instant of a sound wave proceeding through the air in the direction

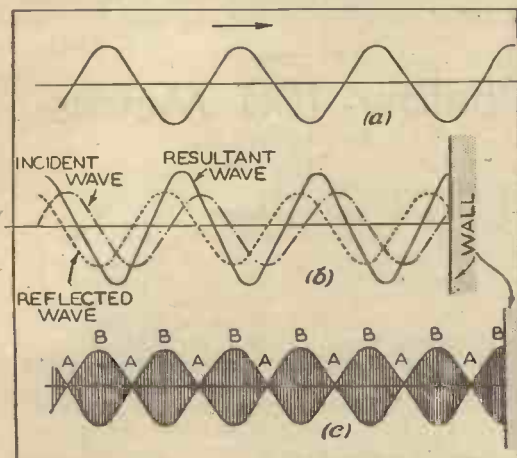


Fig. 2—Illustrating the formation of standing waves owing to reflection from wall

shown by the arrow. At any point the distance of the curve above or below the centre line represents the increase or decrease of air pressure due to the sound wave, so that the latter is represented in the diagram as if it were a ripple on the surface of a pond instead of a pressure wave in the air, as it is in actual fact.

Suppose now that such a wave reaches a reflecting surface such as a flat tiled wall. The original, or incident, wave is represented in Fig. 2 (b) by the "chain" dotted line. The result of the reflection is a second wave, travelling in the reverse direction and shown on the diagram by the plain dotted line. For simplicity, the reflection is represented as complete—i.e., no sound absorption takes place at all with no reduction in the intensity of the sound. In order to get the net effect of the two waves, we have to add them together at each point along the diagram, bearing in mind that points below the centre line are in the negative sense. The result is shown by the full line, and it will be seen that at certain points the two original waves exactly cancel out. Resultant waves may be drawn for all positions of the original incident and reflected waves, and it will be found that a similar result is always obtained, the points of cancellation—or "nodes" as they are termed—being always in the same position as long as the length of the waves has not changed. In fact, two adjacent nodes are always exactly half a wavelength apart.

All the final resultant curves which can be drawn lie between the limits of an envelope such as that shown in Fig. 2 (c), which indicates that at any point along the diagram oscillations of air pressure occur at the frequency of the original wave and to an extent shown by the height of the envelope at the point. Thus an ear at a point A, which is a node, hears no sound at all, whereas the maximum sound is heard at B, which is called an anti-node. This wave pattern is stationary, whereas the original wave travels with the velocity of sound. Waves of this type are therefore called "stationary" or "standing" waves. Such standing waves are easily detected in a room if a loudspeaker gives out a steady tone—such as the BBC tuning note—by moving the head from place to place, with one ear closed, when the maxima and minima of sound intensity are clearly defined.

In an approximately rectangular room with reflecting or partially reflecting walls a still more interesting standing wave effect can take place if the sound concerned is of such a frequency that the distance between two parallel walls is an exact multiple of half a wavelength. In these circumstances we get, as before, a standing-wave pattern formed by the direct sound from the source and the reflected wave from the first wall and this is exactly reinforced by the reflection from the other wall, again reinforced by another reflection from the original wall, and so on. This is in effect a condition of resonance of the air in the room and it has the result of very greatly increasing the efficiency of the loudspeaker or whatever else is the source of sound, unless the latter happens to be situated at or very near a node in the standing-wave pattern.

## Effect of Resonance

This increase of the efficiency of a source of sound by resonance is well illustrated by an experiment described in most elementary textbooks on sound. A vibrating tuning fork is in itself a very inefficient source of sound, but if it is brought near to the open end of a glass jar and water is gradually poured into the jar a condition will be reached at which a very considerable increase in the sound of the fork takes place, owing to the improvement in efficiency by the resonance of the air in the jar. In this case reflection takes place at the water surface in the jar and again at the open end. The reflection at the open end is, however, of a different type from that at the water surface, so that the length of the air column in the jar for resonance has to be an odd multiple of a quarter wavelength of the sound in air and not any multiple of a half wavelength as in the case of the two opposite walls of a room. Organ pipes and wind instruments generally provide other examples of increase of sound by air resonance.

Fig. 3 illustrates air resonance between two reflecting walls further, by showing the standing waves set up at frequencies for which the distance between the walls is  $\frac{1}{2}$ , 1, and  $1\frac{1}{2}$  wavelengths respectively. For walls 11 feet apart, as shown, these would correspond approximately to frequencies of 50, 100, and 150 cycles per second. In a room, resonance can occur between each of the two pairs of walls separately as well as between floor and ceiling, whilst, in addition, more complicated types of resonance occur in which both pairs of walls take part simultaneously, or one pair of walls together with floor and ceiling. There is also a third possibility of resonance in three dimensions in which reflection at all six surfaces takes part at the same time.

All this means that in a room a large number of different modes of air resonance are possible and, at the lower frequencies, reverberation consists almost entirely of the decay of these steady sound patterns according to the mode of resonance nearest in frequency to the sound emitted by the loudspeaker. In addition, and perhaps more important from the listener's point of view, the performance of the loudspeaker is very much modified according to its position in the room and to the size of the room, owing to the increase of its efficiency by air resonance as in the case of the tuning fork. The effect is very much as if the loudspeaker itself possessed a number of serious resonances in the low-frequency range. The result is liable to be appreciable boominess and bass heaviness, even if the loudspeaker itself is beyond reproach in this respect.

Lord Rayleigh, in his "Theory of Sound," first published in 1878, showed how to calculate the frequencies of these resonances for a rectangular room. For a room of the size to which Fig. 1 (page 12, July 9) refers, the values up to 100 cycles per second are 37, 46, 59, 61, 71.5, 74, 77, 84.5, 87, 92, 96.5, and 99.5 cycles per second approximately. If we calculate the possible resonances for higher frequencies we find they become more and more closely spaced. A point is reached, as the frequency increases, at which any note sounded in the room actually excites a number of these modes. When this occurs, individual resonances assume less importance and reverberation may once more be considered to be a process of random reflection of sound waves from wall to wall of the room.

## Reverberation in Small Rooms

In a relatively small room such as the average listener is likely to possess, and to which the above figures refer, reverberation may be considered as entirely random for frequencies above about 500 cycles per second and as almost entirely a matter of resonance for frequencies below 200 cycles per second. The reproduction by loudspeaker of all the important bass frequencies is therefore dependent on the properties of the room in conjunction with the loudspeaker as well as on the position of the latter and of the listener within the room. This gives a ready explanation of the effect often observed by critical listeners, that bass reproduction varies considerably if the same receiver or loudspeaker is moved from room to room, or even if its position is changed in the same room.

(Continued at foot of col. 3, opposite)

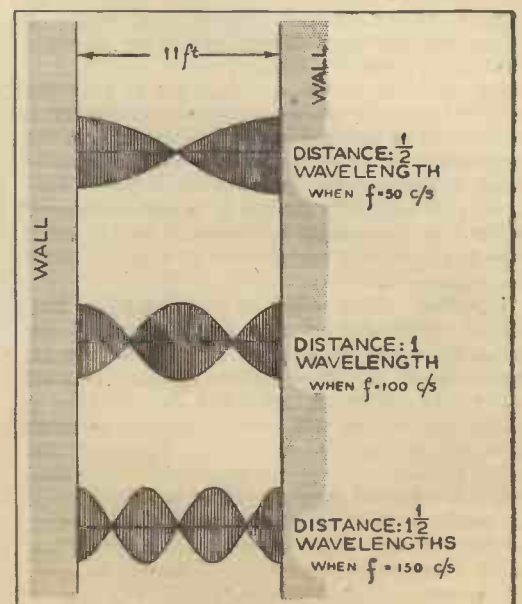


Fig. 3—Typical modes of air resonance between parallel walls



## THE SHORT WAVES

## Noise Level on All-Wave Reception

WHAT is the noise level of your receiver? Is there just a quiet hiss, or is there an intermittent crackling or perhaps a continual "hash," as an accompaniment to the programme being received? Spurious noises are still perhaps one of the greatest troubles of radio reception.

As yet, no method has been found of eliminating natural atmospheric noise from radio reception, but there are other sources of receiver noise which may be got rid of. All-wave and short-wave receiver provide a very interesting study for background noise and its variation with wavelength.

In discussing background noise, it may be just as well to start with the receiver itself. Assuming for the moment that there is no circuit fault in the receiver, valve amplification noises may be providing a certain amount of background. This, of course, is known as the "Schott Effect." It will be appreciated that the greater the number of valves in a receiver the greater will be valve noise, so this argues a great deal in the favour of superhets. using the least number of valves, but making use of the multi-grid and multi-purpose type of valve. This, as a matter of fact, has been the trend of receiver design in this country during the last couple of years, though at the present time there is a tendency to increase the number of valves—as American manufacturers have done—and use one valve per stage.

Nevertheless, it must not be thought that valve amplification noise is a serious trouble in ordinary broadcast reception; actually it only makes itself felt when a receiver is being used in its most sensitive condition. Yet if a set does become noisy when being pushed to its limits of amplification, it is well worth trying out one or two different valves in the H.F. and detector stages, as it may be possible to obtain just as much amplification with a quieter background, using other valves.

## Signal-to-Noise Ratio

The last remarks apply more to the shorter wavelengths than to the broadcast bands, unless much searching for long-distance stations is being done, which brings in the question of signal-to-noise ratio. Some all-wave receivers, although bringing in programmes from American stations very strongly, also produce an equally loud background noise, and this is a point well worth watching when an all-wave receiver is being purchased.

On the short-waves it is possible to raise the level of the received signal relative to noise level, by the use of a tuned aerial. There are on the market special all-wave aeriels, that give optimum signal-to-noise ratio on all bands. This result is obtained by the use of a low-impedance feeder line—sometimes a concentric type of cable—with a matching transformer at both the aerial and receiver ends.

However, those who do not wish to buy special equipment of this kind, may still rig up an aerial cut to suit one particular waveband. For instance, if a great deal of listening is done on the 31 m. band, an aerial cut to have a length of 46 feet will give a definite increase in signal strength to the 31 m. stations. An aerial, although cut to one particular frequency, will also resonate over a band of several metres, but where a tuned aerial is so used, the coupling to the receiver is important. Loose coupling and a separately-tuned aerial coil, should be used, and in this way it is possible to give the desired signals quite a lift with respect to noise level.

Turning from genuine "atmospherics" to man-made static, there are many possible sources of interfering noise to be considered—buses,

neon signs, vacuum cleaners, and many other electrical products of modern times, can make listening very trying for the all-wave enthusiast.

## "Man-Made Static"

Perhaps the commonest form of "man-made static" proceeds from motor-car ignition systems. Interference from ignition radiation produces a staccato crackling noise in the receiver, varying in pitch and amplitude. This, as a matter of fact, can be very easily cured at its source by the addition of a small resistance at each sparking plug—i.e., in the H.T. plug leads. As, however, there is no law enforcing the suppression of ignition radiation on all cars and buses, attempts to eliminate or lessen the interference must be made at the receiver end.

A great deal of interesting work has already been done on this subject in America. It has been found, for instance, that ignition radiation produces a train of separate impulses and that if the received signal can be interrupted at the short periodicity of the interfering radiation, the ear does not detect any break in the programme, yet the interference is not heard.

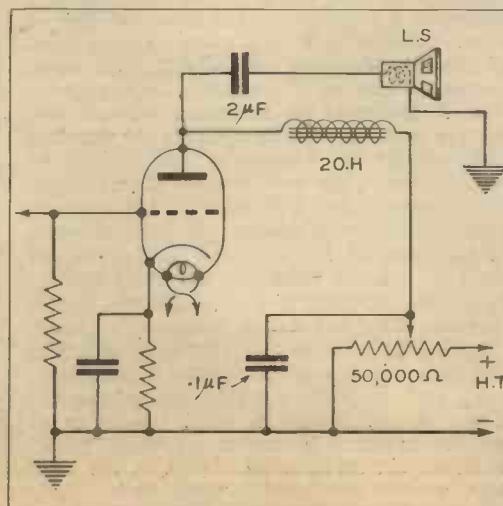
Apart from the more or less continuous interference of car ignition, there may be sudden bursts of interference caused by arcing in some electrical equipment, which can cause complete wipe-out of the programme for varying periods of time. In this case the interference is continuous, and the volume level is usually far above that of the programme being received. Those of an experimental turn of mind may do much to prevent these sudden bursts of man-made static—or, at least, to reduce their effect upon reception.

If a multi-valve receiver, with one or more L.F. stages, is worked with the volume control well below its maximum setting, a sudden burst of interference may fully load the L.F. stages—or for that matter momentarily overload them and drive the valves into grid current.

## A Signal-Limiting Device

If, however, the L.F. valves are already working at their maximum amplification level for the signal input, and are biased so that sudden excessive rise in signal amplitude will produce no further amplification from the L.F. stage, then the interference will be kept down to a correspondingly low level instead of obliterating the programme. A circuit in which this applied to a triode output valve is shown in the accompanying diagram. It is really a form of low-frequency A.V.C. or signal-limiting device.

One of the commonest forms of noise interference on any waveband is due to the switching on and off of electric light switches. Now this



Circuit of signal-limiting device

type of interference does not radiate very far, and more often than not it is the light switches in the set-owner's house which are the cause of the trouble. When such a switch starts arcing badly, owing to loose or worn contacts, it is time to fit a new switch. A faint click may be heard in the receiver on switching on and off, but this should certainly be all.

One interesting point may be mentioned in regard to all-wave receivers and interference. It will generally be found that car and bus ignition and other forms of static interference peak over a certain band of frequencies on the receiver. For instance, car ignition may be much more noticeable on 20 metres than on 40 metres. This does not necessarily depend upon the source of interference.

Static interference of the man-made variety, may have its peak frequency down on an ultra-short or "micro" wavelength, but it is of course aperiodic, and can spread over a tremendous portion of the broadcast spectrum. A great deal of the interference on the receiver wavebands then is due to shock excitation, so that an overall resonance of the set (not forgetting the loudspeaker) may produce a greater volume of static on one band than on another. Certainly when buying an all-wave receiver to be used near a main road, it is well worth while trying several receivers of different make in the actual situation where the set is to be used.

S. C. C.

## Below 100 Metres

By "SCOTIAN"

(July 4-9)

THE outstanding U.S. broadcaster throughout the week has undoubtedly been W2XAD (19.57 m.). Good results have also been obtained at times from the 16 m. and 13 m. Americans. JZK (19.79 m.)—on his new schedule—and PRF5 continue to come over with unfailing regularity. Many South Americans on the 49 m. band have been strongly heard shortly after midnight.

Around 08.00 on Sunday, conditions were rather quiet the only station of note being VK3LR (31.32 m.). W2XE (13.94 m.), R5-7, and W3XAL (16.87 m.), R5-7, gave good afternoon results. By 20.30 W3XAL had improved to R7 after his usual early evening decline and the talk by Howard Marshall from London was very well heard. W2XAF (31.48 m.) was R5 at 21.50 but improved to R6-7 by 22.30. LRX (31.06 m.) came in shortly after 23.00, an R6 signal.

On Monday, W2XE performed well from 12.50 until 14.30, being R7 with only an occasional light fade. W3XAL, a consistent R7 signal in the afternoon, proved rather variable in the evening. HS8PJ (15.77 m.) was logged at R4 when signing-off with an announcement in English at 16.00. On the 31 m. band after midnight, LRX and HJIABP, both R7, were the best DX transmissions. W2XAF was found to be completely swamped by inter-station QRM.

W2XE, R6 with occasional deep fades at 14.00 on Tuesday, improved very much before closing. W3XAL attained only R5 for a period around 19.00, as did W2XGB (17.33 m.). Even W2XAD was affected by the poor conditions prevailing. The lower frequencies, however, gave good results. The "Short-wave Mailbag" was well received via W2XAF (R6) at 23.35.

The following day a "fade-out" was evident on wavelengths below 19 m. This was not unexpected, as the peculiar hiss associated with fade-outs had become very prominent on the 13 m. band at 15.00. Thursday afternoon found W2XE still a weak signal and W3XAL completely out. However, W3XAL improved to R6-7 in the evening and was a consistent R7 at 01.20 the following morning. Around 01.30 very active conditions prevailed on 31 m. and above.

On Friday evening W3XAL gave an R5-6 signal, peaking to R8 at 22.00 but went out earlier than usual. At 00.45, CEB (24.39 m.) came in at R7, whilst the 25 m. band was still mainly "local." On 31 m. and above, many DX transmissions were easily obtainable, including a new Buenos Aires transmitter, the call apparently being "Radio El Grano."



## Short-Wave News Reel

### ARRIVAL OF "CALEDONIA"

ON July 9 at 20.20 I switched on to the short waves and on 16.8 m. found W3XAL coming in at excellent strength and discovered that a great many American people were assembled at Port Washington, to await the arrival of the Imperial Airways flying-boat "Caledonia," which was then expected at any moment.

The commentator described what was taking place on the water and nearby and said that the weather was perfect. Shortly afterwards the "Caledonia" was sighted about 3,000 feet up, accompanied by four smaller flying craft which had apparently gone out to greet it. A perfect landing was made, and American officials connected with Airways, State, and certain Consular offices spoke of their pleasure at the successful termination of the flight and its effect on the future relationship between the two countries. Next the Customs officials boarded the "Caledonia" to deal with the usual formalities, and with reluctance at 20.40 the commentator stated we could not stay any longer as he had hoped and so hear the captain and crew say a few words at the microphone.

The transmission being good I listened to the programmes which followed, including "Club Matinee" (21.00-22.00), and at 22.20 the programme was interrupted and I had the pleasure of hearing Captain Wilcockson greet London and describe the trip, telling of his contact with three ocean liners *en route* and of circling in salute to one of them, concluding his remarks with thanks on behalf of the crew and himself for the assistance given on his journey.

London, S.E.12.

H. G. W.

### VANDERBILT CUP RACE

AN unexpected thrill was provided by W3XAL at 21.30 on July 5, when listeners heard a broadcast of the closing stages of the George Vanderbilt Cup Automobile Race held at the Roosevelt Speedway, Westbury, Long Island. George Hicks gave the names of the drivers competing for the first prize of 20,000 dollars, and continued with a vivid running commentary of the two final laps in this 300 mile road race.

Berndt Rosemeyer (Germany) was ahead of

R. J. B. Seaman (England) with Rex Mays (California) in third position. With Seaman making a great final effort, a "neck-and-neck" finish seemed probable, but both he and Mays ran out of "gasoline" at the critical moment and had to come into the pits to refuel at the end of the 89th lap. So Rosemeyer came along the banked curve and down the straight to see the white flag raised to signify his victory. His was a 15-cylinder Auto-Union car with motor at the rear and his official time was 3 hours 38 minutes 17 seconds. Dick Seaman for the Mercedes team and Rex Mays in an Alfa-Romeo, both with blackened faces and forearms, finished second and third respectively.

After Rosemeyer had said a few words in German to the effect that he was very happy to have won, the cup was presented to him by a member of the Vanderbilt family, and so another exciting short-wave relay was concluded.

Barnsley, Yorks.

R. H. G.

### AMERICAN BASEBALL

PRESIDENT ROOSEVELT pitched the first ball in the annual "All Star" baseball match between the American League and the National League. The game was broadcast from W2XE at 19.40 (B.S.T.) on July 7, and for two hours I imagined myself one of the 33,000 fans present.

The outstanding features of the game were the Nationals' poor pitching and the League's splendid batting. Gehrig, of the famous New York Yankees Club, was in splendid form, and scored half of the League's runs. Archie Vaughan of the Pittsburgh Pirates, played a great game for the losers.

"Hubble," said the commentator, "appears to be nervous, which is rather fortunate for the League, as in a previous match he had disposed of five champions." He received a fine ovation from an excited crowd as he walked to his "dug-out." The score went to 5 runs to 1, when Dick Bartell smashed a ball past fifth base to reduce the arrears. This brought in Billy Herman batting with Bridges pitching . . . "He gets the signal . . . he's started to swing his arm, there's the pitch . . . he misses . . . one ball, no strike;" and so this exciting game continued, resulting in a victory for the League by 8 runs to 3.

Bristol.

W. J. C.

## Don't Neglect the Short-Wave Locals

(Continued from page 14, July 9)

BOTH the French and Dutch short-wave stations are rather near to shine as dependable "locals." Best reception from Holland is probable when PCJ at Huizen uses 31 m. and PHI 25 m., although sometimes fair results are obtained when they are operating in the 19 m. and 16 m. bands respectively.

The programmes of the Paris, Radio Colonial transmitters are often received indifferently—at least so far as listeners in the South of England are concerned—owing to the effect of skip-distance, but even so, come over well at times during their long daily schedule of news, music, and talks, most frequently, perhaps, when working on a 25-metre wave.

At the opposite extreme of Europe are the Yugoslav station at Belgrade, the Bulgarian transmitter at Sofia, and the well-known short-wave stations at Radio Centre, Moscow. Belgrade, 49.18 m., although considered as a "local," is by no means easy to receive in the summer time until late in the evening. LZA, Sofia, working on the much shorter wave of 20.04 m. is, however, a simple means of reception of the Bulgarian programme, even in the morning. The Moscow broadcasts hardly require comment; they are usually well received.

### Scandinavian Stations

Another trio is formed by the Scandinavian stations at Jeløy, Motala, and Skamlebaek, which relay the national programmes of Norway, Sweden, and Denmark respectively. They are all useful as alternatives to the medium-wave and long-wave transmitters in these countries, especially during the daytime. Jeløy is often a good signal on both 31.49 m. and 48.94 m., but at this time of the year is often surpassed during daylight hours by Motala SBG (25.63 m.), which has recently taken over the duties of SM5SX.

At the other end of Europe, in the Iberian peninsula, are strongly-received short-wave transmitters in the Spanish and Portuguese capitals. EAQ and EAQ2, Madrid, stand out from the mass of Spanish "mushroom" stations by reason of their consistent R9 signals, although their transmissions suffer considerably from bad quality, this criticism applying particularly to those from the 30.43 m. station. It is somewhat disconcerting to try to follow their broadcasts, since their programme schedules appear to be under continual and radical revision.

CSW and CT1AA, Lisbon, on the other hand, work to regular times, and certainly put Portugal on the map as far as reception in the summer is concerned, the medium-wave stations being of no value for reception until late at night. The long gramophone concerts from these transmitters are specially noteworthy for the frequent recordings of Portuguese folk-songs which are radiated, music which not only sounds very attractive but unusually foreign, considering the relative nearness of Portugal to this country.

No review of the "locals" would be complete without reference to HVJ, TFJ, HBL, and HBP, stations belonging to the Vatican City authorities, the Icelandic State Broadcasting Service, and the League of Nations respectively. Each of these broadcasts specialised in English news or notes and, coupled to the short-wave news services in English from Paris, Berlin, Prague, Rome, Madrid, and Moscow (and one should add here New York and Tokio), certainly enable the short-wave listener to keep himself informed regarding current events.

W. W.

## Correspondence

### Short-Waves in Indo-China

SIR,—We refer to your article "Further Developments in the Far East" which appeared in the WORLD-RADIO of May 14, and are pleased to give you brief information regarding broadcasting activities in Indo-China.

The station "Radio Saigon" to which you refer has not resumed its transmissions. Instead, three smaller transmitters belonging to private organisations have shown evident desire to make things alive again. At the beginning of last year we put into operation a transmitter working on the 25 m. band, and in February 1937, we added another wavelength on the 49 m. band. The town from which we broadcast is Saigon (Southern Indo-China).

There are two more stations: one, in Hanoi (North Indo-China), belonging to the "Radio Club de l'Indochine du Nord," and operating on 40.5 m., and the other in Saigon, owned by Mr. Michel Robert and transmitting on 31.5 m. We are heard frequently in the U.S.A., where many DX-ers' Associations mention the fact in their magazines; we also receive favourable comments from Australia, Dutch Indies, India, and some replies in your feature "Which Station Was That" gave us once or twice the impression that we have been heard in England.

The station FZR—mentioned on page 14 of WORLD-RADIO of May 14—does not broadcast at present, and as the correspondence we receive from the U.S.A. regarding our station is very often addressed to FZR, we think it worth while to draw your attention to this.

Yours truly,

Saigon.

M. LEPICARD.

### Singapore ZHI: Final News

SIR,—In view of the doubt expressed by "W. H. R." (Chicago S.W. Club) regarding the closing-down of the above station, may I be permitted to amplify the information given in my previous letter? (WORLD-RADIO, March 26, 1937.)

ZHI's final transmission took place at the end of December, 1936, and a week after this the transmitter was partly dismantled. I was station engineer and announcer, and I have since used parts of the old transmitter in building other apparatus.

I suggest that the station heard by "W. H. R." and others was Penang (6.48 Mc/s), or Kuala Lumpur, F.M.S. (6.13 Mc/s), or possibly a local amateur. Reports of reception of the ZHI station were received consistently from almost every country in the world, but our confidence in the value of such reports was severely shaken when they continued to arrive after the station had closed down—and they are still arriving! All these reports claim reception of ZHI during the advertised times of transmission, and these times were different from those of Penang and Kuala Lumpur.

Yours faithfully,

J. F. B.

British Malaya Broadcasting Corporation,  
Singapore.

### A SWISS GOVERNMENT S.W. STATION

In a recent debate in the Swiss Parliament it was stated that the government has decided to erect a short-wave transmitter. It will probably be situated at the foot of the Northern Alps. Plans of the undertaking have not yet been disclosed, but construction is expected to begin shortly.



# SHORT-WAVE BROADCASTING STATIONS

Frequencies are shown in megacycles per second (Mc/s). Times of operation are given on the "twenty-four-hour clock" system, "B.S.T." For transmission times of stations shown in black type see Short-Wave Programmes. The broadcasting wavebands are indicated by heavy vertical lines

m.	Mc/s	kW	Station	Dial Reading	m.	Mc/s	kW	Station	Dial Reading
98.68	3.04	10	Batavia (Java) YDA. 11.30—16.30.				20	Sydney (Australia) VK2ME. SUN. 06.00—	
75	4.00	0.05	Ponta Delgada (Azores) CT2AJ.				08.00; 10.30—14.30; 17.30—19.30.		
70.2	4.27	20	Kharbarovsk (U.S.S.R.) RV15. 08.00—15.00.	31.28	9.59	0.2	Applecross (W. Australia) VK6ME, MON. to		
62.63	4.75	..	Vancouver (Canada) VE9BK.				SAT., 12.00—14.00.		
58.03	5.17	1	Bandoeng (Java) PMY.			20	Huizen (Holland) PCJ. Exp'tl. (b).		
51.72	5.80	1	Caracas (Venez.) YV5RC (b).	31.27	9.59	20	Radio-Nations HBL. SAT., 23.30—00.00.		
51.52	5.82	0.5	San Jose (Costa Rica) TIGPH. 01.00—05.00.	31.25	9.60	20	Moscow (U.S.S.R.) RW96 (c).		
51.28	5.85	0.25	Maracaibo (Venez.) YV1RB. 23.00—03.00.	31.13	9.63	25	Caracas (Venezuela) YV5RA (a).		
50.26	5.97	10	Vatican City (Italy) HVJ (b).	31.11	9.64	1	Rome (Italy) I2RO3 (b).		
50	6.00	1	Mexico City XEBT. 01.00—07.00.	31.09	9.65	2	Sourabaya (Java) YDB. Daily, 10.30—15.30.		
49.96	6.00	6	Montreal (Canada) CFCX. 23.00—04.15.				Lisbon (Portugal) CT1AA. TUES., THURS.,		
49.92	6.01	2.5	Havana (Cuba) COCO. 23.00—07.00.	31.06	9.66	5	SAT., 21.00—00.00.		
49.9	6.01	30	Podébrady (Prague) (Czecho.) OLR2A (d).	31	9.68	0.5	Buenos Aires (Argentine) LRX. 12.00—04.00.		
49.83	6.02	5-50	Bogotá (Colombia) HJ3ABH. 00.00—05.00.				Lisbon (Portugal) CT1CT. THURS., 21.00—		
49.75	6.03	0.1	Zeesen (Germany) DJC.	30.43	9.86	20	23.00; SUN., 12.00—14.00.		
49.67	6.04	20	Panama City HP5B. 01.00—04.30.	30.42	9.86	20	Madrid (Spain) EAQ.		
49.65	6.04	2.5	Boston (Mass.) W1XAL (c).	30.18	9.94	5	Madrid (Spain) EAQ1.		
49.59	6.05	10-50	Miami (Florida) W4XB.	29.24	10.26	3	Lisbon (Portugal) CSW. 23.00—01.00.		
		10	Barranquilla (Col.) HJ1ABG. 00.00—04.00.	29.04	10.33	9	Bandoeng (Java) PMN. D'ly., 14.00—16.30.		
		10	Daventry GSA.	28.99	10.35	12	Ruysselede (Belgium) ORK.		
		10	Cincinnati (U.S.A.) W8XAL.	28.94	10.36	4	Buenos Aires (Argentine) LSX. 23.00—23.45.		
49.5	6.06	0.5	Philadelphia (U.S.A.) W3XAU. 01.00—04.00.	27.25	11.01	3	Tenerife Radio Club (Canary Is.) EAJ43.		
		1	Skamlebaek (Denmark) OXY. Relays Kalund-	27.17	11.04	5	Bandoeng (Java) PLP.		
		1	borg (1,250 m.).	25.63	11.70	1	Lisbon (Portugal) CSW. W'days, 17.00—23.00.		
49.46	6.06	1	Motala (Sweden) SBG. Relays Stockholm			2	Motala (Sweden) SBG. Relays Stockholm.		
			after 19.30.	25.6	11.72		Winnipeg CJRX. Daily, 23.00—05.00; SAT.,		
49.45	6.07	0.15	Manizales (Colombia) HJ4ABL. 23.30—01.30.			12	21.00—06.00; SUN., 22.00—03.30.		
49.42	6.07	0.15	Georgetown (British Guiana) VP3MR. SUN.,	25.57	11.74	20	Radio-Colonial (Paris) (France) TPA4 (c).		
			13.45—16.15. Weekdays, 22.45—02.45.	25.53	11.75	10-50	Huizen (Holland) PHI (b).		
		0.05	Penang (S.S.) ZHJ. Weekdays, 13.40—15.40.	25.49	11.77	5-50	Daventry GSD.		
49.34	6.08	0.5	Chicago (Ill.) W9XAA. Weekdays, 11.30—	25.45	11.79	20	Zeesen (Germany) DJD.		
			13.00; 22.00—05.00.	25.42	11.80	20	Boston (Mass.) (U.S.A.) W1XAL (b).		
49.33	6.08	15	Lima (Peru) OAX4Z.	25.4	11.81	1.5	Tokio (Japan) JZJ.		
49.31	6.08	0.5	Nairobi (Kenya) VQ7LO. SUN., 17.15—20.15.	25.38	11.82	25	Vienna Exp'tl OER2. 16.00—23.00; Daily.		
			MON. to FRI., 12.00—12.30; 17.45—20.45.			10-50	Rome (Italy) I2RO4 (a).		
			TUES. and THURS., 14.45—15.45. SAT.,			0.5	Daventry GSN.		
			12.00—12.45; 17.15—20.15.	25.36	11.83	10	Chicago (Ill.) W9XAA. W'days, 13.00—22.00.		
49.3	6.08	0.1	Cali (Colombia) HJ5ABD. 00.00—04.30.			2	Wayne (N.J.) (U.S.A.) W2XE (d).		
		0.5	Toronto (Canada) CRCX. MON. to SAT.,	25.34	11.84	30	Lisbon (Portugal) CT1AA. TUES., THURS.,		
49.26	6.09	2	22.00—03.30; SUN., 16.45—04.30.	25.31	11.85	5-50	SAT., 21.30—00.00.		
		5	Hong Kong ZBW2.	25.29	11.86	10-50	Podébrady (Prague) (Czecho.) OLR4A (b).		
49.2	6.10	35	Johannesburg (S.A.) ZTJ.	25.27	11.87	40	Zeesen (Germany) DJP.		
		10	Bound Brook (N.J.) (U.S.A.) W3XAL (b).	25.23	11.88	12	Daventry GSE.		
49.18	6.10	1	Chicago (Ill.) W9XF.	25	12.00	20	Pittsburgh (U.S.A.) W8XK (c).		
		1	Belgrade (Yugoslavia) YUA.	24.83	12.08	0.5	Radio-Colonial (Paris) (France) TPA3 (b).		
49.12	6.10	10-50	Manizales (Colombia) HJ4ABB. 23.00—03.30.	24.75	12.12	7.5	Moscow (U.S.S.R.) RNE (b).		
		0.5	Daventry GSL.	24.52	12.23	0.35	Lisbon (Portugal) CT1CT.		
49.1	6.11	0.25	Calcutta (India) VUC.	24.2	12.40	10	Algiers (N. Africa) TPZ.		
48.96	6.12	0.25	Havana (Cuba) COCD. 23.00—06.00.	22	13.63	10	Reykjavik (Iceland) TFJ.		
48.94	6.13	1	Jelöy (Norway) LKJ1. 17.00—23.00.	20.04	14.97	1.5	Parede (Portugal) CT1GO.		
48.92	6.13	0.2	Halifax (Nova Scotia) VE9HX. Daily, 14.00	19.95	15.04	25	Warsaw (Poland) SPW.		
			—18.00; 22.00—04.00. FRI., 18.00—20.00.	19.85	15.11	5-50	Sofia (Bulgaria) LZA. Relays Sofia (352.9 m.).		
			SAT. and SUN., 19.00—04.00.	19.84	15.12	10	Moscow (U.S.S.R.) RKI (a).		
48.86	6.14	40	Pittsburgh (U.S.A.) W8XK (d).	19.82	15.14	10-50	Zeesen (Germany) DJL.		
		2	Winnipeg CJRO. Daily, 23.00—05.00;	19.82	15.14	10-50	Vatican City (Italy) HVJ (a).		
48.78	6.15	0.5	SAT., 21.00—06.00; SUN., 22.00—03.30.	19.8	15.15	3	Daventry GSF.		
		0.5	Lisbon (Por.) CSL. 12.00—14.00; 17.00—00.00.	19.79	15.16	20	Bandoeng (Java) YDC.		
48.7	6.16	0.5	Colombo (Ceylon) VPB. (Temply suspended).	19.76	15.18	10	Tokio (Japan) JZK.		
48.4	6.20	5	Parede (Portugal) CT1GO.	19.75	15.19	2	Daventry GSO.		
48.04	6.24	0.75	Trujillo City (D.R.) HIN. 01.30—03.30.	19.74	15.20	5-50	Hong Kong ZBW4.		
47.5	6.32	0.1	Trujillo City (D.R.) HIZ. Daily, 22.40—02.10.	19.72	15.21	40	Zeesen (Germany) DJB.		
46.8	6.41	0.5	San Jose TIPG. 17.00—19.00; 00.00—05.30.	19.71	15.22	20	Pittsburgh (U.S.A.) W8XK (b).		
46	6.52	0.5	Valencia (Venezuela) YV4RB. 23.00—03.30.	19.70	15.23	30	Huizen (Holland) PCJ. Exp'tl. (a).		
45.31	6.62	2	Riobamba PRADO. FRI., 04.00—05.30.	19.68	15.24	12-	Podébrady (Prague) (Czecho.) OLR5A (a).		
45.25	6.63	..	Trujillo City (D.R.) HIT. 00.10—02.40.	19.67	15.25	20	Radio-Colonial (Paris) (France) TPA2 (a).		
45	6.67	0.2	Guayaquil (Ecuador) HC2RL.	19.66	15.26	10-50	Boston (Mass.) W1XAL (a).		
38.48	7.78	20	Radio-Nations HBP. SAT., 23.30—00.00.	19.65	15.27	10	Daventry GSI.		
33.53	8.94	1	Quito (Ecuador) HCJB.	19.63	15.28	5-50	Wayne (N.J.) (U.S.A.) W2XE (c).		
32.88	9.12	5	Budapest (Hungary) HAT4 (b).	19.62	15.29	5	Zeesen (Germany) DJQ.		
32.09	9.35	20	Bangkok (Siam) HS8PJ. THURS., 14.00—16.00.	19.60	15.31	10-50	Buenos Aires (Argentine) LRU. 13.00—01.00.		
31.8	9.43	0.15	Havana (Cuba) COCH. 18.00—07.00.	19.57	15.33	18	Daventry GSP.		
31.65	9.48	20	Madrid (Spain) EAQ2.	19.56	15.34	5-50	Schenectady (U.S.A.) W2XAD (a).		
31.58	9.50	12	Rio de Janeiro (Brazil) PRF5.	19.52	15.37	20	Zeesen (Germany) DJR.		
		1.5	Buenaventura (Colombia) HJU.	17.33	17.31	2	Budapest (Szekesfehervar) (H'ng'ry) HAS3 (a)		
31.55	9.51	10-50	Daventry GSB.	16.9	17.75	2	Hicksville (N.Y.) (U.S.A.) W2XGB.		
		2	Melbourne VK3ME. W'days, 10.00—13.00.	16.89	17.76	5-50	Hong Kong ZBW5.		
31.49	9.52	2	Hong Kong ZBW3.	16.88	17.77	23	Zeesen (Germany) DJE.		
31.48	9.53	1	Jelöy (Norway) LKJ1. 11.15—14.00.	16.87	17.78	35	Wayne (N.J.) (U.S.A.) W2XE (b).		
		25	Schenectady (N.Y.) W2XAF (b).	16.86	17.79	10-50	Huizen (Holland) PHI (a).		
31.45	9.54	5-50	Zeesen (Germany) DJN.	15.93	18.83	60	Bound Brook (U.S.A.) W3XAL (a).		
		3	Suva (Fiji Islands) VPD2.	15.77	19.02	20	Daventry GSG.		
31.41	9.55	30	Podébrady (Prague) (Czecho.) OLR3A (c).	15.50	19.35	60	Bandoeng (Java) PLE.		
31.38	9.56	5-50	Zeesen (Germany) DJA.	13.97	21.47	10-50	Bangkok (Siam) HS8PJ. MON. 14.00—16.00.		
31.37	9.56	10	Lima (Peru) OAX4T.	13.94	21.52	10	Bandoeng (Java) PMA.		
31.36	9.56	4.5	Bombay (India) VUB.	13.93	21.53	10-50	Daventry GSH.		
31.35	9.57	10	Millis (Mass.) W1XK. 11.00—05.00.	13.93	21.54	40	Wayne (N.J.) (U.S.A.) W2XE (a)		
31.32	9.58	10-50	Daventry GSC.	13.92	21.55	10-50	Daventry GSJ.		
		1	Lyndhurst (Australia) VK3LR. 07.30—08.30.				Pittsburgh (U.S.A.) W8XK (a).		
31.28	9.59	10	Philadelphia (Pa.) W3XAU, 17.00—01.00.				Daventry GST.		



# Short-Wave Programmes

All times in B.S.T., except EMPIRE, which are G.M.T. The daily transmission schedule is shown in brackets after the name of each station

For Wavelengths see Short-Wave List (in alternate weeks)

\* Electrical Recordings.

† Gramophone Records.

‡ GSG (Transmissions 2, 3), daily, two transmitters and aerials on the same frequency.

## SUNDAY, July 18

### EMPIRE

The Empire Programmes are printed in outline for the convenience of overseas readers.

**Transmission 1 (GSG, GSO, GSD, GSB)**, 04.30—Big Ben; Arnold Trowell (Cello); John Simons (Pfte.). 05.05—Empire Service from St. Paul's Cathedral, London.\* 05.55—Newsletter, Sports Summary. 06.15—06.45—Sports Commentaries.\*

**Transmission 2 (GSI, GSH, GSG, GSG†)**, 10.45—Big Ben; Trio. 11.15—Talk on General Wolfe.\* 11.30—Band: Jean Craig (Mezzo-Soprano). 12.30—Big Ben; Talk on Sir John Franklin.\* 13.00—Newsletter, Sports Summary. 13.20—13.30—Light Orchestra.†

**Transmission 3 (GSI, GSH, GSG, GSG†)**, 13.50—Merchant Navy Week Service. 14.45—Elsie Owen (Violin). 15.00—Quintet. 15.30—Zoological talk.\* 15.45—Falkman Apache Band. 16.00—BBC Theatre Organ (Reginald Foot). 16.10—Newsletter, Sports Summary. 16.30—17.00—Tango Orchestra.

**Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB)**, 17.20—Chopin's Music.† 17.30—BBC Military Band; Dennis Noble (Baritone). 18.00—Big Ben; Newsletter, Sports Summary. 18.20—Poetry and Song. 18.50—Musical Interlude.† 18.55—Kewick Convention Service. 19.45—Betty Humby (Pfte.). 20.05—Welsh community hymn-singing. 20.35—20.45—Talk. 21.00—Big Ben; Newsletter, Sports Summary. 21.20—"Summer over the British Isles."\* 22.00—BBC Theatre Organ (Reginald Foot). 22.30—Talk on General Wolfe.\* 22.45—23.00—Epilogue.\*

**Transmission 5 (GSP, GSO, GSF, GSD)**, 23.20—Orchestra.† 23.30—Big Ben; Mozart's Chamber Music: Joseph Shadwick (Violin); Wilfrid Parry (Pfte.). 00.00—Big Ben; Service (Roman Catholic).\* 00.50—Elizabeth Campbell (Mezzo-Soprano); Barry Sherwood (Tenor). 01.10—01.30—Newsletter, Sports Summary.

**Transmission 6 (GSG, GSI, GSD, GSB)**, 02.00—Big Ben; Silver Band. 02.35—Zoological talk.\* 02.50—Service.\* 03.05—G. Thalben-Ball (Organ). 03.40—04.00—Newsletter, Sports Summary.

**BOSTON (16.00-04.00)**, (b) 21.30—Service. 22.55—URSIgram. (c) 23.30—World's Melodies. (a) 15.00—Russian Melodies. 16.00—News. 16.15—Hendrik Willem van Loon. 17.30—Music Hall. 19.00—Magic Key—Symphony Orchestra. 20.00—A cappella Choir. 20.30—Howard Marshall. 21.00—Vespers. 23.00—Canadian Grenadier Guards Band. 00.00—Soprano, Orchestra. (b) 02.00—Revue. 02.30—News; Music. 03.00—California Concert.

**BUDAPEST (15.00-02.00)**, (a) 15.00—16.00—Record; News (Eng.); Harmonium; Talk; Choir; Orchestra; Folk Music; News; Anthem. (b) 01.00—02.00—See 15.00.

**CARACAS (14.30-04.30)**, (a, b) 14.30—R.C. Service; Records; Variety. 17.00—Folk Music. 19.30—Racing. 23.30—Dancing.

**CHICAGO (W9XF) (04.05-07.00 [Mon.]), 16.10—News. 04.05—Globe Trotter. 04.15—Orchestra. 04.30—News.**

**HUIZEN (PCJ)**, (b) 20.00—21.00—For Africa; Records; Talks; News.

**HUIZEN (PHI) (13.00-16.00)**, 13.00—For Asia; Music; Talks; News. 14.00—Call; Talk. 14.20—For the Dutch Indies; See 13.00. 15.20—News. 15.30—Musical Jig-Saw.

**MOSCOW (04.15-02.00)**, (b)

04.15—For France. 12.00—For England. 13.00—For Germany. 14.00—For Holland. 15.00—For France. 16.00—See 12.00. (a) 19.00—For Germany. 20.00—For Hungary. (c) 00.00—For Spain. 01.00—See 12.00.

**PARIS (Radio-Colonial) (07.00-06.00)**, (b) 07.00—News; Records; Review. 09.00—News. 09.40—News (Eng., It.). (a) 11.0—Concert. 12.00—News (Eng.). 12.15—Concert; at 12.45—Topical. 13.30—News. 14.00—Film Notes; Periodicals; Records. 14.30—To be announced. (b) 17.15—News (Fr., Arabic). 18.00—Concert. 18.30—Music-Hall. 19.00—Topical. 19.30—News. 20.10—News (Eng., It.). 20.30—To be announced. 22.30—Markets. 22.45—News (Port.). (c) 23.15—Concert. 00.15—News (Fr., Sp., Port.). 01.00—01.15—Records. 03.00—Records. 04.00—News. 04.30—News (Eng.); Records. 05.45—News (Ger.).

**PITTSBURGH (14.00-06.00)**, (b) 14.00—For Children. 15.00—Melodies. 15.45—Slim and Jack. 16.00—Christian Science Church. 17.00—Southernaires. 17.30—Music—Hall. 18.30—Musical Favorites. 19.00—RCA. 20.00—A-cappella Choir. 20.30—International Broadcast from London. 20.45—Tenor. 21.00—Vespers. 22.00—Dorothy Hancock. 22.30—Roy Shield. 23.00—Christian Endeavour. 23.15—Frank Morgan. 23.30—Sports; Music. 23.45—Band. (c) 00.00—Helen Trauble. 00.30—Variety. 02.30—News; Choir. (d) 03.00—Organ. 03.30—California Concert. 04.00—Music; News. 04.15—Orchestras.

**PODEBRADY, No Afternoon Programme received.** (a) 20.00—News. (b) 20.30—News. 20.40—Band. 21.00—News (Ger.). 21.05—Czech Rhapsody (Ondricek). 21.20—News (Fr.). 21.25—English Sketch. 21.45—Mozart, Opera. 22.00—News (Eng.); Music.

**REYKJAVIK (19.40-20.30)**, 19.40—Talks (Eng.); Music; News (Eng., Ice.). 20.05—Hymn; Talks (Ger.); Music; News (Ger.).

**ROME (14.20-00.15)**, (a) 14.20—14.55—News; Revue. 17.30—18.30—Operetta; News. 19.30—23.30—From Rome (420.8 m.). (b) 00.00—00.15—U.S.A. Bulletin.

**RUSSSELEDE (19.30-21.00)**, 19.30—News (Flem., Fr.). 20.00—21.00—From Brussels (1).

**SCHENECTADY (16.00-06.00)**, (a) 16.00—News; Pfte. Duo. 16.15—Bravest of the Brave. 16.45—Orchestra. 17.00—Hour Glass. 17.30—Chicago University Discussion. 18.00—Soprano. 18.30—Dreams. 19.00—Sunday Drivers. 19.30—Mysteries. 20.00—Melody Tapestry. 20.30—Widows' Sons. 21.00—Romance Melodies. 21.30—The World is yours. (a, b) 22.00—Paul Martin's Music; Variety. 23.00—R.C. Hour. 23.30—A Tale. 00.00—Jack Benny. 00.30—Variety. (b) 02.00—Merry-Go-Round. 02.30—Familiar Music. 03.00—Sunday Night Party. 04.00—Orchestras; at 04.30—News.

**TOKIO (For Europe) (21.00-22.05)**, 21.00—News (Eng.). 21.15—Topical (Eng.). 21.30—Song Hits. 21.45—News (Ger.).

**VATICAN CITY**, (b) 11.00—For Invalids (Latin, Fr.).

**WARSAW**, 17.30—19.30—Couiawienne (Wieniawski); Topical; Songs; Recitation; Polish and Mazurkas; Reading; Mountain Dances (Moniuszko).

**WAYNE (12.30-04.00)**, (a) 13.00—Organ. 14.55—News. (c) 22.30—Guy Lombardo and Orchestra. (d) 02.00—Sunday Evening Hour. 03.00—Community Singing. 03.45—News.

**ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00)**, 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.). 14.00—News; Call (DJQ). 14.15—"Sunday." 14.30—Song Duets. 15.00—News (Eng., Dutch). 15.15—Pfte. Sonata (Beethoven). 15.30—Opera Music. 16.45—Chamber Music. **ZEESEN (DJD, DJL, DJC) (06.10-22.20)**, 06.10—Concert; at

07.00—News. 12.00—14.00—Orchestra. 17.35—Call. 17.45—Band. 18.15—News. 18.30—"Sunday." 18.45—For Children. 19.00—Concert. 20.00—News (Eng.). 20.15—Chamber Music, Songs. 21.00—Nocturne (Brink). 21.45—Sports. 22.00—News (Ger., Eng.).

**ZEESEN (DJD, DJB) (17.10-05.00)**, 17.10—18.25—Concert. 22.50—Call (Ger., Eng.); For Children. 23.15—Band. 23.45—News. 00.00—"Sunday." 00.15—Concert. 01.15—Sports. 01.30—In the Forest. 02.15—News (Eng.). 02.30—Soprano, Guitar. 03.00—News. 03.15—Orchestra. 04.15—Pfte. 04.30—News (Eng., Ger.).

## MONDAY, July 19

### EMPIRE

**Transmission 1 (GSG, GSO, GSD, GSB)**, 04.30—Big Ben; Visit to R.M.T.S. "Saint Columba."\* 05.00—Zoological talk.\* 05.15—Quintet. 05.55—News. 06.15—06.45—"The BBC Presents The A.B.C."\*

**Transmission 2 (GSI, GSH, GSG, GSG†)**, 10.45—Big Ben; "Empire Exchange." 11.00—Oxford and Bucks Light Infantry Band. 12.00—Big Ben; "Summer over the British Isles."\* 12.40—Records. 13.10—13.35—News.

**Transmission 3 (GSI, GSH, GSG, GSG†)**, 14.00—Big Ben; Davis Cup Inter-Zone Final; Music. 15.30—"Empire Mail Bag." 16.00—Davis Cup. 16.10—News. 16.30—17.00—"The BBC Presents The A.B.C."\*

**Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB)**, 17.20—"Tommy Atkins"; talk. 17.35—Irish Songs and Humour. 18.00—Big Ben; News. 18.20—Dance Music.† 18.30—Cinema Organ. 19.00—Reminiscent programme of Dance Music. 19.30—William Primrose (Viola). 20.00—The Davis Cup Inter-Zone Final.\* 20.30—20.45—Jeanne Dusseau (Soprano). 21.00—Big Ben; News. 21.25—Dance Band. 22.00—Visit to the London Zoo.\* 22.30—23.00—Records.

**Transmission 5 (GSP, GSO, GSF, GSD)**, 23.20—New British Dance Numbers.† 23.30—Big Ben; Talk on Sir John Franklin.\* 00.00—Big Ben; Quintet. 00.35—"Empire Exchange."\* 00.50—Songs of the Hebrides. 01.10—01.30—News.

**Transmission 6 (GSG, GSI, GSD, GSB)**, 02.00—Big Ben; Orchestra. Max Rostal (Violin). 03.00—"Round and About." 03.10—Davis Cup Inter-Zone Final.\* 03.40—04.00—News.

**BOSTON (21.30-02.30)**, (a) 21.30—News. (b) 22.00—Educational. 22.55—URSIgram. 23.00—News. (c) 00.00—Radio Course. 01.00—Morse.

**BOUND BROOK (12.30-04.45)**, (a) 12.55, 14.55 and 17.25—News. 18.30—Farm and Home. 19.30—U.S. Navy Band. 20.30—Let's Talk it over. 21.00—Club Matinée. 23.00—News; U.S. Army Band. 23.30—News; Male Quartet. 23.45—Lowell Thomas. (b) 01.00—Film Revue. 01.30—Band. 02.00—John Barrymore's Shakespeare (See Wayne). 03.30—Radio Forum.

**CARACAS (13.00-03.30)**, (a, b) 13.00—News. 16.45—Records. 22.00—Music. 23.15—For Children; Dance Music. 00.00—News; Talks; Variety. 02.45—Amateurs. 03.15—News.

**CHICAGO (W9XF) (04.05-07.00 [Tues.]), 04.30—News; Orchestra.**

**HUIZEN (PCJ)**, (b) 01.00—02.00 (Tues.)—For the Americas; Music; Talks; News.

**HUIZEN (PHI) (14.00-15.30)**, 14.00—Call; Musical Comedy. 14.50—News; Sports. 15.20—Stocks.

**MOSCOW (04.15-02.00)**, (b) 04.15—For France. 21.00—For Germany. 22.05—English Talk; Felix Dzerzhinsky, Creator of the

Cheka. 23.00—For Hungary. (c) 00.00—For Spain. 01.00—For England.

**PARIS (Radio-Colonial) (07.00-06.00)**, (b) 07.00—News; Records; Review. 09.00—News. 09.40—News (Eng., It.). (a) 11.00—Records. 11.45—Talk (Sp.). 12.00—News (Eng.). 12.15—Concert; at 12.45—Topical. 13.30—News. 14.00—Talks; Records. 14.30—Delmon Orchestra, Songs. 15.55—Markets. (b) 17.15—News (Fr., Arabic). 18.00—Symphony Concert. 18.30—Concert. 18.50—Art Review. 19.00—News. 20.10—News (Eng., It.). 20.30—To be announced. 22.30—Markets. 22.45—News (Port.). (c) 23.15—Records. 00.15—News (Fr., Sp., Port.); Records.\* 03.00—Records. 04.00—News. 04.30—News (Eng.); Records. 05.45—News (Ger.).

**PITTSBURGH (12.00-06.00)**, (b) 14.00—Merrymakers. 14.30—Band. 14.45—Shopping Circle. 15.00—Variety. 16.15—Personal Column. 16.30—Vic and Sade. 16.45—Edward MacHugh. 17.00—News; Variety. 17.45—Midday Sun. 18.15—Interviews. 18.30—Farm and Home. 19.30—Home Forum; Variety. 20.15—Welfare. 20.30—Let's Talk it over. 21.00—Club Matinée. 21.30—Orchestra. 21.45—Dance; Variety. 22.15—For Children. 22.45—Songs. 23.00—News; Strings. 23.45—Lowell Thomas. (c) 00.00—Variety. 02.00—John Barrymore's Streamlined Shakespeare (See Wayne). (d) 03.15—Orchestra. 03.30—Radio Forum. 04.00—News; Fiddle. 04.30—Orchestras.

**PODEBRADY, No Afternoon Programme received.** (a) 20.00—News. (b) 20.30—News; Dancing. 21.00—News (Ger.). 21.20—Tamara (Balakirev). 21.20—News (Fr.); Quartet (Janacek). 22.00—22.30—News (Eng.); Music. 01.00—Band. 01.25—Welfare; Folk Songs. 01.45—News; Orchestra. 02.15—Choir. 02.30—News (Eng.); English Sketch. 03.00—Mail.

**RIO DE JANEIRO**, 23.30—00.30—News; Talks (Eng., etc.).

**ROME**, (a) 14.20—News; Songs to the Guitar; Talk. 15.00—16.30—News (Eng.); Italian Symphony (Mendelssohn); Talk; Violin; Songs; News. 17.20—18.20—News; Mandoline Quartet; Soprano; Violin; Baritone. 18.30—19.00—Music and News (Arabic). 19.40—News (Ger., Fr.). 20.10—23.30—From Rome (420.8 m.). (b) 23.30—South American Bulletin. 00.00—American Hour from Rome: U.S.A. Bulletin; News (Eng., It.). "I Cavalieri di Ekebu" (Zandonai); Talk; Soprano; Letters.

**RUSSSELEDE (19.30-21.00)**, 19.30—News (Flem., Fr.). 20.00—21.00—From Brussels (2).

**SCHENECTADY (16.00-06.00)**, (a) 16.00—Variety. 17.30—Farm Programme. 18.00—Variety. 18.30—Words and Music. 19.00—U.S. Travel (Fr.). 19.15—WPA. 19.30—Off the Records. 20.00—Variety; at 21.15—Personal Column. (a, b) 22.00—Stocks; Markets. 22.15—Dari Dan. 22.30—Don Winslow. 22.45—Baritone. 23.00—To be announced. 23.15—U.S. Travel. 23.30—News; Three X Sisters. 23.45—Sports. 00.00—Amos 'n' Andy. 00.15—U.S. Travel (Sp.). 00.30—Stocks; Sports. 00.45—News (Sp.). 01.00—Spanish Programme. 01.30—Concert. (b) 02.00—Spanish Programme. 02.30—Variety. 04.00—Pfte. Team; Discussion. 04.15—Songs. 04.30—Orchestras; Minstrels.

**SUVA**, 11.30—13.00—Records.

**TOKIO (For Europe) (21.00-22.05)**, 21.00—News (Eng.). 21.15—Nagauta Ballads on the Samisen. 21.45—News (Fr.).

**VATICAN CITY**, (a) 16.30—Religious Notes (It.). (b) 20.00—See 16.30.

**WARSAW**, 18.30—19.30—Polish Music and News; Reading; Moniuszko Music.

**WAYNE (12.30-04.00)**, (a) 14.00—Metropolitan Parade. (c) 21.30—Chicago Variety. (d) 00.00—Poetic Melodies. 00.45—Boake Carter. 02.00—John Barrymore's Streamlined Shakespeare: "Much Ado about Nothing," with Leslie Howard and Rosalind Russell.

**ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00)**, 11.55—Call (Ger., Eng.). Concert; at 13.00—News (Eng.). 14.00—News. 14.15—Band. 14.45—Sports. 15.00—News (Eng., Dutch); Topical. 15.30—Dance Music. 16.45—Talk.

**ZEESEN (DJD, DJL, DJQ) (06.10-22.20)**, 06.10—Concert; at 07.00—News. 17.35—Call; Talk. 18.00—Pfte. (Draeske). 18.15—News. 18.30—Overtures (Weber). 18.45—Concert. 20.00—News (Eng.); Topical. 20.30—Soprano. 21.00—Scenes—Queen Louise (Bern). 21.45—Topical. 22.00—News (Ger., Eng.).

**ZEESEN (DJD, DJB) 22.50-05.00**, 22.50—Call (Ger., Eng.); Rocco Music. 23.45—News. 00.00—Film Music. 00.30—Operetta (Sieber). 01.15—Topical. 01.30—Nocturne (Brink). 02.15—News (Eng.). 02.30—Weber Overtures. 02.45—Talk. 03.00—News. 03.15—Dance Music. 04.30—News (Eng., Ger.).

## TUESDAY, July 20

### EMPIRE

**Transmission 1 (GSG, GSO, GSD, GSB)**, 04.30—Big Ben; Café Colette.\* 05.10—"Empire Exchange."\* 05.25—BBC Theatre Organ. 05.55—News. 06.15—06.45—Davis Cup Inter-Zone Final.\*

**Transmission 2 (GSI, GSH, GSG, GSG†)**, 10.45—Big Ben; Ezra Pitt and Elmer. 11.15—Light Orchestra. 12.00—Big Ben; "Empire Mail Bag."\* 12.30—Myra Ffoulkes (Pfte.). 12.45—Silver Band. 13.30—13.55—News.

**Transmission 3 (GSI, GSH, GSG, GSG†)**, 14.15—Big Ben; "World Affairs." 14.30—Orchestra; Records; Café Colette.\* 16.10—News. 16.30—17.00—Karl Caylus Players; Winifred Bury (Soprano).

**Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB)**, 17.20—"World Affairs."\* 17.35—Light Orchestra; Billy Mayerl (Pfte.). 18.00—Big Ben; News. 18.20—"Summer over the British Isles."\* 19.00—Variety. 19.40—Davis Cup Inter-Zone Final.\* 20.10—20.45—"Something in the City"—play.\* 21.00—Big Ben; News. 21.20—BBC Theatre Orchestra; Ina Souez (Soprano). 22.00—Lew Stone's Band. 22.30—"World Affairs."\* 22.45—23.00—Angus Morrison (Pfte.).

**Transmission 5 (GSP, GSO, GSF, GSD)**, 23.20—Talk on the Empire Match at Bilsley. 23.30—Big Ben; Ezra Pitt and Elmer.\* 00.00—Big Ben; Dance Music. 00.40—"The Grand Junction."\* 01.10—01.30—News.

**Transmission 6 (GSG, GSI, GSD, GSB)**, 02.00—Big Ben; Davis Cup Inter-Zone Final.\* 02.30—Spencer Thomas (Tenor). 02.45—"World Affairs."\* 03.00—Café Colette.\* 03.40—04.00—News.

**BOSTON (21.30-02.30)**, (a) 21.30—News. (b) 22.00—Educational. 22.55—URSIgram. 23.00—News. (c) 00.00—Educational.

**BOUND BROOK (12.30-04.45)**, (a) 12.55, 14.55 and 17.25—News. 18.30—Farm and Home. 19.30—NBC Music Guild. 20.00—Airbreaks—Variety. 20.45—Have You Heard? 22.00—Club Matinée. 23.00—News; Orchestra. 23.30—News; Tenor. 23.45—Lowell Thomas. (b) 01.30—"It can be done." 02.00—Ben Bernie. 03.00—The Other Americas. 03.30—Harpisichords.

**CARACAS (13.00-03.30)**, (a, b) 13.00—News. 16.45—Records. 22.00—Music. 23.15—For Children; Dancing. 00.00—News; Talks; Variety. 03.15—News.

**CHICAGO (W9XF) (04.05-07.00 [Wed.]), 04.05—NBC Night Club. 04.30—News; Globe Trotter.**

**HUIZEN (PCJ)**, (a) 10.30—12.00—Variety for Australia and New Zealand. (b) 19.30—21.00—Variety for South Africa.

**HUIZEN (PHI) (14.00-15.30)**, For the Dutch Indies. 14.00—Call; Records. 14.15—Play; Records. 14.45—News; Topical. 15.20—Stocks.

**MOSCOW (21.00-02.00)**, (b) 21.00—For France. 22.05—For Holland. 23.00—For Sweden. (c) 00.00—For Spain. 01.00—For England.

**PARIS (Radio-Colonial) (07.00-06.00)**, (b) 07.00—News; Records; Topical. 09.00—News; Records. 09.40—News (Eng., It.). (a) 11.00—Records. 11.45—Talk (Jap.). 12.00—News (Eng.); Concert; at 12.45—Topical. 13.30—News. 14.00—Talks; Records. 14.30—"Saison d'amour"—Play (See). 15.55—Markets. (b) 17.15—News (Fr.,



Arabic, 18.00—Music; Records, 18.50—Shipping, 19.00—News, 20.10—News (Eng., It.), 20.30—To be announced, 22.30—Markets, 22.45—News (Port.), (c) 23.15—Records, 00.15—News (Fr., Sp., Port.); Records, 03.00—Records, 04.00—News, 04.30—News (Eng.); Records, 05.45—News (Ger.).

PITTSBURGH (12.00-06.00), (b) 14.00—Breakfast Club, 14.30—Shopping Circle, 14.45—Variety; at 16.15—Personal Column, 16.45—Edward MacHugh, 17.00—News; Variety, 17.30—Stroller's Matinée, 18.15—Interviews, 18.30—Farm and Home, 19.30—Home Forum, 20.00—For Women, 20.15—Concert Favorites, 20.30—Kidoodlers, 20.45—Have you Heard? 21.00—Clubs, 21.15—Concert Echoes, 21.30—Orchestra, 21.45—Dance, 22.00—Lucille and Lanny, 22.15—For Children, 22.45—King's Men, 23.00—News; Orchestra, 23.45—Lowell Thomas, (c) 00.00—Variety; at 01.00—Husbands and Wives, (d) 03.00—The Other Americas, 03.30—Harpischord Ensemble, 04.00—News; Fiddle, 04.30—Orchestras.

PODEBRADY, No Afternoon Programme received. (a) 20.00—News, (b) 20.30—News; Operetta, 21.00—News (Ger.), 21.05—Folk Music, 21.20—News (Fr.); Songs; Music, 22.00—News (Eng.); Organ.

RIO DE JANEIRO, 23.30-00.30—News; Talks (Eng., etc.).

ROME, (a) 14.20—News; Music, 15.00-16.30—(Eng., Chin.); Pfte. and Violin; Songs; News, 17.20-18.20—News; Overture (Rossini); Songs, 18.30—Music and News (Arabic), 18.50-19.00—Talk (Turk.), 19.40—News (Ger., Fr.), 20.10-23.50—From Rome (420.8 m.); (b) 00.00—U.S.A. Bulletin, 00.20—Call (U., Sp., Port.); News; "I Cavalieri di Ekebu" (Zandonai); Talk; Spanish Songs; News (Sp., Port.).

RUYSSELEDE (19.30-21.00), 19.30—News (Flem., Fr.), 20.00-21.00—From Brussels (1).

SCHENECTADY (16.00-06.00), (a) 16.00—Variety; at 17.30—Farm Programme, 18.30—Words and Music, 19.00—Matinée Musicale, 19.30—Woman's World, 19.45—Variety; at 21.15—Personal Column, (a, b) 22.00—Stocks; Markets, 22.15—Choir, 22.30—Don Winslow, 22.45—Baritone, 23.00—Science, 23.15—Three X Sisters, 23.30—News; Mail, 00.00—Amos 'n' Andy, 00.15—Varieties, 00.30—Stocks; Sports, 00.45—News (Sp.), 01.00—Spanish Programme, 01.30—Serenade, (b) 02.00—Spanish Programme, 02.30—Variety, 03.30—Hollywood Gossip, 03.45—Vic and Sade, 04.00—Orchestras.

SUVA, 11.30-13.00—Records.

TOKIO (For Europe) (21.00-22.05), 21.00—News (Eng.), 21.15—String Quartet and Orchestra, 21.45—News (Ger.).

VATICAN CITY, (a) 16.30—Church Notes (Eng.), (b) 20.00—Sec 16.30.

WAYNE (12.30-04.00), (a) 14.40 and 15.30—News, (c) 22.30—St. Louis Synchronators, (d) 23.30—News, 00.15—Ted Husing, 00.30—Alexander Woolcott, 00.45—Boake Carter, 01.00—Hammerstein Music Hall.

ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00), 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.), 14.00—News; Call (DJQ), 14.15—Nocturne (Brink), 15.00—News (Eng., Dutch); Topical, 15.30—Overtures (Weber), 15.45—Orchestra, 16.45—Talk.

ZEESEN (DJD, DJL, DJC) (06.10-22.20), 06.10—Concert; at 07.00—News, 17.35—Call; Organ (Bach), 18.15—News, 18.30—Talk, 18.45—Variety and Music, 19.15—Songs and Poems, 20.00—News (Eng.); Topical, 20.30—Concert, 21.45—Violin and Pfte. 22.00—News (Ger., Eng.).

ZEESEN (DJD, DJB) (22.50-05.00), 22.50 p.m.—Call (Ger., Eng.); Talk, 23.15—Bach Organ Music, 23.45—News, 00.00—Scenes—Queen Louise, 00.45—Soprano, 01.15—Topical, 01.30—Songs; Records, 02.15—News (Eng.), 02.30—Pfte. 02.45—Topical, 03.00—News, 03.15—Light Music, 04.30—News (Eng., Ger.).

WEDNESDAY, July 21

EMPIRE Transmission 1 (GSG, GSO, GSD, GSB), 04.30—Big Ben; "World Affairs,"\* 04.45—Irish Guards Band; Norman Menzies (Baritone), 05.25—Davis Cup Inter-Zone Final,\* 05.55—News, 06.15—Schumann's Chamber Music, 06.45-06.55—Talk on the Empire Match at Bisley.\* Transmission 2 (GSI, GSH, GSG, GSGF), 10.45—Big Ben; "World Affairs,"\* 11.00—Octet, 11.30—"Something in the City"—play,\* 12.00—Big Ben; Winifred Flavell (Violin), 12.15—Theatre Orchestra, 13.00—"Stop Dancing,"\* 13.30-13.55—News. Transmission 3 (GSI, GSH, GSG, GSGF), 14.15—Big Ben; Talk on the Empire Match at Bisley,\* 14.25—Records, 14.30—Pfte. Recital, Records, 15.15—

—News, (b) 22.00—Educational, 22.55—URSIgram, 23.00—News. BOUND BROOK (12.30-04.45), (a) 12.55, 14.55, and 17.25—News, 18.00—Arlington Time Signal, 18.30—Farm and Home, 20.15—Continental Varieties, 21.00—Club Matinée, 23.00—News; Orchestra, 23.30—News; Male Quartet, 23.45—Lowell Thomas, 00.15—Mrs. Franklin D. Roosevelt, (b) 01.00—Variety, 01.30—Biographies, 02.00—NBC String Symphony Orchestra, 03.30—NBC Minstrel Show. BUDAPEST, (b) 01.00-02.00 (Thursday)—Band; News; (Violin); Poems; Children's Choir; Report; Orchestra; News; Anthem. CARACAS (13.00-03.15), (a, b) 13.00—News, 16.45—Records, 22.00—Music, 23.15—For Children; Dance Music, 00.00—News; Talks; Variety. CHICAGO (W9XF) (04.05-07.00

Column, 16.45—Edward MacHugh, 17.00—News; Variety, 18.15—Interviews, 18.30—Farm and Home, 19.30—Home Forum, 20.00—Dance, 20.15—Continental Varieties, 20.45—Kidoodlers, 21.00—Music; Variety, 21.45—Dance, 22.00—Animal News Club, 22.15—For Children, 22.45—Orchestra, 23.00—News; Music, 23.45—Lowell Thomas, (c) 00.00—Variety; at 02.00—NBC String Symphony Orchestra, (d) 03.00—Orchestra, 03.15—Sammy Fuller, 03.30—Minstrel Show, 04.00—News; Orchestras. PODEBRADY, No Afternoon Programme received. (a) 20.00—News, (b) 20.30—News, 20.40—Overtures (Smetana, Blodek), 21.00—News (Ger.); Slovak Folk-Songs, 21.20—News (Fr.), 21.25—Third Symphony (Dvorák), 22.00—News (Eng.); Band.

SUVA, 11.30-13.00—Records. TOKIO (For Europe) (21.00-22.05), 21.00—News (Eng.), 21.15—Folk Songs and Music to Kabuki Plays, 21.45—News (Fr.). VATICAN CITY, (a) 16.30—Church Notes (Sp.), (b) 20.00—Sec 16.30. WARSAW, 18.30-19.30—Moniuszko Music; Sports; Niewiadomski Songs; Reading; Songs. WAYNE (12.30-04.00), (a) 14.40 and 15.30—News, (c) 19.00—For Women, 20.00—Manhattan Matinée, (d) 23.30—News, 00.45—Boake Carter, 02.00—Lily Pons, 02.30—Jessica Dragonette, 03.30—Babe Ruth at Bat. ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00), 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.), 13.55—Greetings to British India, 14.00—News; Call (DJQ), 14.15—Soprano, 14.45—Violin and Pfte. 15.00—News (Eng., Dutch); Topical, 15.30—Variety, 16.00—Organ (Bach), 16.30—Pfte. (Draeseke), 16.45—Press Review. ZEESEN (DJD, DJL, DJC) (06.10-22.20), 06.10—Concert; at 07.00—News, 17.35—Call; Talk, 18.00—Songs (Strauss), 18.15—News, 18.30—Music, 19.00—Concert, 20.00—News (Eng.); Topical, 20.30—Press Review, 20.45—Musical Fairy Play (Schultze), 22.00—News (Ger., Eng.). ZEESEN (DJD, DJB) (22.50-05.00), 22.50—Call (Ger., Eng.), 23.00—Songs and Dances, 23.45—News, 00.00—Variety, 00.30—Songs; Poems, 01.15—Topical, 01.30—Music, 02.00—Talk, 02.15—News (Eng.); Press Review, 02.45—Violin, Pfte. 03.00—News, 03.15—Concert, 04.30—News (Eng., Ger.).

PRINCIPAL EVENTS

SUNDAY, July 18

17.30 Rome (25.4 m.) Operetta. 17.30 Pittsburgh (19.72 m.) Music-Hall. 18.00 Schenectady (19.57 m.) Soprano songs. 20.30 Bound Brook (16.87 m.) London Letter, Howard Marshall. 21.00 Pittsburgh (19.72 m.) Shadyside Church, Vespers. 23.00 Schenectady (19.57 m.) Roman Catholic Hour. 00.00 Bound Brook (16.87 m.) Orchestra, soprano songs. 02.00 Bound Brook (49.18 m.) Revue. 04.00 Schenectady (31.48 m.) Orchestras.

MONDAY, July 19

15.00 Rome (25.4 m.) Symphony. 19.30 Bound Brook (16.87 m.) U.S. Navy Band. 23.30 Zeesen (25.49 m., 19.85 m., 49.83 m.) Soprano Song Recital. 23.05 Bound Brook (49.18 m.) U.S. Army Band. 23.45 Bound Brook (49.18 m.) Lowell Thomas. 00.00 Rome (31.13 m.) American Hour. 02.00 Bound Brook (49.18 m.) Shakespeare, with Barrymore. 04.30 Schenectady (31.48 m.) Orchestras.

TUESDAY, July 20

19.30 Bound Brook (16.87 m.) NBC Music Guild. 20.45 Bound Brook (16.87 m.) Have you heard? 21.15 Pittsburgh (19.72 m.) Concert Echoes; 21.45, Dance. 21.15 Schenectady (19.57 m.) Personal Column. 00.00 Schenectady (31.48 m.) Amos 'n' Andy.

WEDNESDAY, July 21

14.30 Radio-Colonial (19.68 m.) Orchestra, Violin. 18.30 Schenectady (19.57 m.) Words and Music, 19.45, Variety. 19.00 Zeesen (25.49 m., 19.85 m., 49.83 m.) Concert. 21.25 Pittsburgh (19.72 m.) Dvorák. 00.00 Rome (31.13 m.) American Hour. 02.00 Bound Brook (49.18 m.) NBC Pittsburgh (25.27 m.) Strings.

THURSDAY, July 22

15.00 Rome (25.4 m.) "I Cavalieri di Ekebu" (Zandonai). 21.00 Pittsburgh (19.72 m.) Club Matinée; 22.15, For Children. 23.45 Bound Brook (16.87 m.) Lowell Pittsburgh (19.72 m.) Thomas. 01.00 Schenectady (31.48 m.) Rudy Vallee. 03.00 Schenectady (31.48 m.) Bing Crosby.

FRIDAY, July 23

14.30 Radio-Colonial (19.68 m.) Opera, "Le Châlet" (Adam). 20.30 Pittsburgh (19.72 m.) Melodies. 23.30 Schenectady (19.57 m.) Spanish Programme. 03.00 Bound Brook (49.18 m.) Jack Pearl. 04.30 Schenectady (31.48 m.) Orchestras; Songs.

SATURDAY, July 24

18.30 Schenectady (19.57 m., 31.48 m.) Campus Capers. 20.00 Schenectady (19.57 m., 31.48 m.) Concert Miniatures. 21.00 Pittsburgh (19.72 m.) Club Matinée. 00.00 Rome (31.13 m.) U.S.A. Bulletin. 00.00 Schenectady (31.48 m.) Spanish Revue. 02.00 Pittsburgh (25.27 m.) National Barn Dance.

Talk on Mungo Park, 15.40—Light Orchestra, 16.00—"Round and About,"\* 16.10—News, 16.30-17.00—Dance Orchestra.

Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB), 17.20—BBC Theatre Organ, 18.00—Big Ben; News, 18.20—Eileen Pilcher (Contralto); William Busch (Pfte.), 18.45—"Empire Exchange,"\* 19.00—"Nikki Makes News,"\* play, 19.45—"Sound Track,"\* 20.00—Speedway Racing: England v. Australia, 20.20-20.45—BBC Military Band, 21.00—Big Ben; News, 21.20—Talks, 21.40—Dance Music, 22.05—Talk on Mungo Park,\* 22.30-23.00—Concert Party.

Transmission 5 (GSP, GSO, GSF, GSD), 23.20—Orchestra, 23.30—Big Ben; Unveiling of the Memorial Plaque at Bridgend Library to Richard Price and John Thomas,\* 23.45—Welsh Folk Songs, 00.00—Big Ben; Variety, 00.20—BBC Military Band; Dennis Noble (Baritone),\* 01.10-01.30—News.

Transmission 6 (GSG, GSI, GSD, GSB), 02.00—Big Ben; Cinema Organ, 02.30—Talks,\* 02.50—"Victorian Reminiscences,"\* 03.10—"Empire Mail Bag,"\* 03.40-04.00—News. BOSTON (21.30-02.30), (a) 21.30

[Thurs.], 04.30—News, 05.00—Orchestra.

HUIZEN (PCJ), (a) 14.00-17.00—Variety for Asia.

MOSCOW (04.15-02.00), (b) 04.15—For France, 12.00—For England, 21.00—For France, 22.05—English Talk: The Red Army, 23.00—For Germany, (c) 00.00—For Spain, 01.00—For England.

PARIS (Radio-Colonial) (07.00-06.00), (b) 07.00—News; Records; Review, 09.00—News; Records, 09.40—News (Eng., It.), (a) 11.00—Records, 11.45—Talk (Russ.), 12.00—News (Eng.), 12.15—Concert; at 12.45—Topical, 13.30—News; Talks; Records, 14.30—Concert; Conductor: Tomasi, Szingier (Violin), 15.55—Exchange, (b) 17.15—News (Fr., Arabic), 18.00—Concert; Records, 18.50—Talk, 19.00—Topical, 19.30—News, 20.10—News (Eng., It.), 20.30—To be announced, 22.30—Markets, 22.45—News (Port.), (c) 23.15—Records, 00.15—News (Fr., Span., Port.); Records, 03.00—Records, 04.00—News, 04.30—News (Eng.); Records, 05.45—News (Ger.).

PITTSBURGH (12.00-06.00), (b) 14.00—Breakfast Club, 14.30—Shopping Circle, 14.45—Variety; at 16.15—Personal

RIO DE JANEIRO, 23.30-00.30—News; Talks (Eng., etc.).

ROME, (a) 14.20—News; Orchestra; Talk, 15.00-16.30—News (Eng.); Trio; Books; Songs; News, 17.20-18.20—News; Orchestra; Songs; Pfte. 18.30-19.00—Music and News (Arabic), 19.40—News (Ger., Fr.), 20.10-23.50—From Rome (420.8 m.), (b) 00.00—American Hour from Rome; U.S.A. Bulletin; Wagner and Verdi Opera Music; Books; Folk Music.

RUYSSELEDE (19.30-21.00), 19.30—News (Flem., Fr.), 20.00-21.00—From Brussels (1).

SCHENECTADY (16.00-06.00), (a) 16.00—Variety; at 17.30—Farm Programme, 18.30—Words and Music, 19.00—Fantasy in Rhythm, 19.30—Women's Clubs, 19.45—Variety; at 21.15—Personal Column, (a, b) 22.00—Stocks; Markets, 22.15—Dari Dan, 22.30—Don Winslow, 22.45—Baritone, 23.00—To be announced, 23.15—Mezzo-Soprano, 23.30—News; Swing; Rhythmaires, 00.00—Amos 'n' Andy, 00.15—Uncle Ezra, 00.30—Stocks; Sports, 00.45—News (Sp.), 01.00—Latin-American Concert, (b) 02.00—Town Hall, 03.00—Hit Parade, 03.45—van Loon, 04.00—Orchestras; Tenor, 05.30—Thriller.

THURSDAY, July 22

EMPIRE Transmission 1 (GSG, GSO, GSD, GSB) 04.30—Big Ben; "Tommy Atkins" : talk,\* 04.45—Quintet; Mahry Dawes (Soprano), 05.15—Speedway Racing: England v. Australia,\* 05.35—"At the Theatres,"\* 05.55—News, 06.15-06.45—"Empire Mail Bag,"\* Transmission 2 (GSI, GSH, GSG, GSGF), 10.45—Big Ben; BBC Welsh Orchestra; Marguerita Hughes (Soprano), 11.15—Talk on Mungo Park,\* 11.40—"At the Theatres,"\* 12.00—Big Ben; Brahms' Sonatas; Florence Hooton (Cello); Dorothy Manley (Pfte.), 12.30—Reginald Foort (BBC Theatre Organ), 13.00—Talks,\* 13.20—Country Dances,\* 13.30-13.55—News. Transmission 3 (GSI, GSH, GSG, GSGF), 14.15—Big Ben; Royal Air Force Band, 15.00—Talk on Lord Clive and William Pitt, 15.15—Edgar Hawke and the Phantom Five, 15.40—Ezra Pitt and Elmer,\* 16.10—News, 16.30-17.00—Romany Dance Band. Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB), 17.20—Zoological talk,\* 17.35—Orchestra, 18.00—Big Ben; News, 18.20—Guitar music,\* 18.30—Reginald Foort (BBC Theatre Organ), 19.00—Variety, 20.00—Daisy Kennedy (Violin), 20.20-20.45—"Fog"; play by J. S. N. Sewell, 21.00—Big Ben; News, 21.20—Orchestra Raymonde; Lola Shari (Soprano), 22.15—Dance Band, 22.30-23.00—"Ezra Pitt and Elmer." Transmission 5 (GSP, GSO, GSF, GSD), 23.20—Millicent Silver (Pfte.), 23.30—Big Ben; "Something in the City"—play,\* 00.00—Big Ben; Anne Thurstfield (Mezzo-Soprano); Herbert Withers (Cello), 00.30—"Tommy Atkins" : talk,\* 00.45—Scottish Dances, 01.10-01.30—News. Transmission 6 (GSG, GSI, GSD, GSB), 02.00—Big Ben; "Summer over the British Isles,"\* 02.40—"Round and About,"\* 02.50—Quintet; Risphal Goodacre (Contralto), 03.40-04.00—News. BOSTON (21.30-02.30), (a) 21.30—News, (b) 22.00—Educational, 22.55—URSIgram, 23.00—News.

BOUND BROOK (12.30-04.45), (a) 12.55, 14.55 and 17.25—News, 17.30—Strollers' Matinée, 18.30—Farm and Home, 20.00—NBC Light Opera, 21.00—Club Matinée, 23.00—News; Orchestra, 23.30—News; Tenor.



23.45—Lowell Thomas. (b) 01.30—American Composers. 03.00—Music-Hall.

**CARACAS (13.00-08.45), (a, b)** 13.00—News. 16.45—Records. 22.00—Music. 23.15—For Children; Dance Music. 00.00—News; Talks; Variety.

**CHICAGO (W9XF) (04.05-07.00 [Fri.])**, 04.05—Globe Trotter. 04.30—News. 05.30—Orchestra.

**HUIZEN (PCJ), (b)** 01.00-04.00 (Fri.)—Variety for America.

**HUIZEN (PHI) (14.00-15.30)**, For the Dutch Indies. 14.00—Call. 14.15—Talk; Rimsky-Korsakov Records. 14.40—News; Topical. 15.20—Stocks.

**MOSCOW (21.00-02.00), (b)** 21.00—For France. 22.05—For France. 23.00—For Spain. (c) 00.00—For Spain. 01.00—For England.

**PARIS (Radio-Colonial) (07.00-06.00), (b)** 07.00—News; Records; Review. 09.00—News; Records. 09.45—News (Eng., It.). (a) 11.00—Records. 11.45—Talk (Greek). 12.00—News (Eng.). 12.15—Concert; at 12.45 Review. 13.30—News; Foreign Affairs; Topical; Records. 14.30—Chamber Music; Songs. 15.55—Markets. (b) 17.15—News (Fr., Arabic). 18.00—Records. 18.30—Music; Poems. 19.00—News. 20.10—News (Eng., It.). 20.30—To be announced. 22.30—Markets. 22.45—News (Port.). (c) 23.15—Records. 00.15—News (Fr., Span., Port.). 01.00—Talk. 03.00—Records. 04.00—News. 04.30—News (Eng.); Records. 05.45-06.00—News (Ger.).

**PITTSBURGH (12.00-06.00), (b)** 14.00—Breakfast Club. 14.30—Shopping Circle. 14.45—Variety; at 16.15—Personal Column. 16.45—Edward MacHugh. 17.00—News; Variety. 17.30—Stroller's Matinee. 18.15—Interviews. 18.30—Farm and Home. 19.30—Home Forum. 20.00—For Women. 20.15—Penna. Women. 20.30—Variety. 21.00—Club Matinee. 21.30—Orchestra. 21.45—Dance. 22.00—Lucille and Lanny. 22.15—For Children. 22.45—King's Men. 23.00—News; Orchestra. 23.45—Lowell Thomas. (c) 00.00—Variety. (d) 03.00—Music-Hall. 04.00—News; Fiddle. 04.30—Orchestras.

**PODEBRADY, No Afternoon Programme received.** (a) 20.00—News. (b) 20.30—News; Waltzes. 21.00—News (Ger.); Wallenstein's Death (d'Indy). 21.20—News (Fr.); Songs. 21.45—Suite (Dvořák). 22.00-22.30—News (Eng.); Music. 01.00—Music. 01.25—Talk; Slovak Folk Songs. 01.45—News; Orchestra. 02.10—News; Violin Concerto (Benda). 02.30—News (Eng.); Band. 03.00—Mail.

**RIO DE JANEIRO, 23.30-00.30**—News; Talks (Eng., etc.).

**ROME, (a)** 14.20—News; Musical Play. 15.00-16.30—News (Eng., Jap.); "I Cavalieri di Ekebù" (Zandonai); News. 17.20-18.20—News; Soprano; Poems; Dance Music. 18.30—Music and News (Arabic). 18.50-19.00—Turkish Music. 19.40—News (Ger., Fr.). 20.10-23.50—From Rome (420.8 m.). (b) 00.00—U.S.A. Bulletin. 00.20—Call (It., Sp., Port.); News; Band; Topical; Songs; News (Sp., Port.).

**RUYSSELEDE (19.30-21.00)**, 19.30—News (Flem., Fr.). 20.00-21.00—From Brussels (1.).

**SCHENECTADY (16.00-06.00), (a)** 16.00—Variety; at 17.30—Farm Programme. 18.30—Words and Music. 19.00—NBC Music Guild. 19.30—Woman's World. 19.45—Variety; at 21.15—Personal Column. (a, b) 22.00—Stocks; Markets. 22.15—Soprano. 22.30—Don Winslow. 22.45—Baritone. 23.00—Norsemen Quartet. 23.15—Brenner (Pfte.). 23.30—News; Stocks; Sports. 00.00—Amos 'n' Andy. 00.15—News (Sp.). 00.30—Science Forum. 01.00—Rudy Vallee. (b) 02.00—Showboat. 03.00—Bing Crosby. 04.00—Pfte.; Footnotes. 04.15—Ink Spots. 04.30—Northern Lights. 05.00—Orchestras.

**SUVA, 11.30-13.00—Records.**

**TOKIO (For Europe) (21.00-22.05)**, 21.00—News (Eng.). 21.15—Topical (Ger.). 21.30—Women's Choir. 21.45—News (Ger.).

**VATICAN CITY, (a)** 16.30—Church Notes (Fr.). (b) 20.00—See 16.30.

**WAYNE (12.30-04.00), (a)** 14.30—Greenfield Village Chapel. 14.40—News. 15.48—News. (c) 22.15—All Hands on Deck;

(d) 23.30—News. 00.15—Ted Husing. 00.45—Boake Carter. 03.00—Your True Adventures—Floyd Gibbons. 03.30—March of Time.

**ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00)**, 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.). 14.00—News; Call (DJQ). 14.15—Music. 14.45—Talk. 15.00—News (Eng., Dutch); Topical. 15.30—Musical Fairy Play. 16.45—Talk (Eng.): German Achievements.

**ZEESEN (DJD, DJL, DJC) (06.10-22.20)**, 06.10—Concert; at 07.00—News. 17.35—Call; Harpsichord. 18.15—News. 18.30—Talk (Eng.). 18.45—Band. 19.45—Dante Fantasia (Liszt). 20.00—News (Eng.); Topical. 20.30—Variety. 22.00—News (Ger., Eng.).

**ZEESEN (DJD, DJB) (22.50-05.00)**, 22.50—Call (Ger., Eng.); Pfte. Trio (Loewe). 23.30—Strauss Songs. 23.45—News; Talk. 00.15—Concert. 01.15—Topical; Zither. 02.15—News (Eng.); 02.30—Dante Fantasia (Liszt). 02.45—Talk (Eng.): Medical Training. 03.00—News. 03.15—Fairy Play. 04.30—News (Eng., Ger.).

FRIDAY, July 23

**EMPIRE**

**Transmission 1 (GSG, GSO, GSD, GSB)**, 04.30—Big Ben; Orchestra: Max Rostal (Violin).\* 05.30—Talk on Lord Clive and William Pitt.\* 05.45—Dance Music.† 05.55—News. 06.20-06.45—"Fog": play by J. S. N. Sewell.\*

**Transmission 2 (GSJ, GSH, GSG, GSG†)**, 10.45—Big Ben; Orchestra. 11.15—Doggett's Coat and Badge.\* 11.30—Dance Band. 12.00—Big Ben. 12.15—"Fog": play.\* 12.40—BBC Military Band. 13.30-13.55—News.

**Transmission 3 (GSJ, GSH, GSG, GSG†)**, 14.15—Big Ben; "Fishing," 14.45—Concert party. 15.30—"Tommy Atkins"; talk.\* 15.45—Quintet. 16.10—News. 16.35-17.00—Selection from Gilbert and Sullivan Operas.†

**Transmission 4 (17.20-21.00 GSG, GSI, GSD, GSB; 21.15-23.00 GSG, GSO, GSF, GSB)**, 17.20—Dance Music.† 17.25—Seaside show. 18.00—Big Ben; News. 18.25—Musical Interlude.† 18.30—"Fishing."\* 19.00—Variety. 19.30—Sinclair Logan (Baritone); Vitya Vronsky and Victor Babin (Pftes.). 20.20—BBC Theatre Organ. 20.40-21.00—Tewkesbury Drama Festival: Excerpts from "Murder in the Cathedral," by T. S. Eliot. 21.15—Big Ben; News. 21.40—"At the Theatres."\* 22.00—Dance Music. 22.30-23.00—"Empire Mail Bag."\*

**Transmission 5 (GSP, GSO, GSF, GSD)**, 23.20—Foster Richardson (Baritone). 23.30—Big Ben; Concert party. 00.00—Big Ben; "Haunting Harmonies."\* 00.20—Talk on Clive and Pitt.\* 00.35—Sextet: Meriel St. Clair (Mezzo-Soprano). 01.10—News. 01.30—Big Ben.

**Transmission 6 (GSG, GSI, GSD, GSB)**, 02.00—Doggett's Coat and Badge.\* 02.15—Big Ben; BBC Dance Orchestra.\* 02.30—Talk on Mungo Park.\* 03.00—Miriam Licette (Soprano); Dorothy Hildreth (Pfte.). 03.40—News. 04.00-04.05—Big Ben.

**BOSTON (21.30-02.30), (a)** 21.30—News. (b) 22.00—Educational. 22.55—URSIGram. 23.00—News.

**BOUND BROOK (12.30-04.45), (a)** 12.55 and 14.55—News. 17.00—U.S. Marine Band; at 17.25—News. 18.00—Arlington Time Signal. 18.30—Farm and Home. 20.00—Radio Guild. 21.00—Club Matinee. 23.00—News; Orchestra. 23.30—News; Male Quartet. 23.45—Lowell Thomas. (b) 01.00—The Woman's Page. 01.30—League of South American Women. 02.00—Cincinnati Summer Opera Association. 03.00—Jack Pearl as Baron Münchhausen.

**CARACAS (13.00-03.30), (a, b)** 13.00—News. 16.45—Records. 22.00—Music. 23.15—For Children; Dancing. 00.00—News; Talks; Variety. 03.00—Concert.

**CHICAGO (W9XF) (04.05-07.00 [Sat.])**, 04.05—NBC Promenade Concerts; at 04.30—News. 06.00—Orchestra.

**HUIZEN (PHI) (14.00-15.30)**, For the Dutch Indies. 14.00—Call; Records. 14.15—Talk; Records.

14.45—News; Talk. 15.20—Stocks.

**MOSCOW (12.00-02.00), (b)** 12.00—For France. 21.00—For France. 22.05—English Talk: Soviet Frontier Heroes. 23.00—For Germany. (c) 00.00—For Spain. 01.00—See 22.05.

**PARIS (Radio Colonial) (07.00-06.00), (b)** 07.00—News; Records; Review. 09.00—News; Records. 09.40—News (Eng., It.). (a) 11.00—Records. 11.45—Talk (Romanian). 12.00—News (Eng.). 12.15—Concert; at 12.45—Review. 13.30—News; Talks; Records. 14.30—"Le Châlet" (Adam). 15.55—Exchange. (b) 17.15—News (Fr., Arabic). 18.00—Concert; Records. 18.50—Talk. 19.00—News. 20.10—News (Eng., It.). 20.30—To be announced. 22.30—Markets. 22.45—News (Port.). (c) 23.15—Concert. 00.15—News (Fr., Sp., Port.); Records. 03.00—Records. 04.00—News. 04.30—News (Eng.); Records. 05.45—News (Ger.).

**PITTSBURGH (12.00-06.00), (a)** 14.00—Merrymakers. 14.30—Band. 14.45—Shopping Circle. 15.00—Variety; at 16.15—Personal Column. 16.45—Edward MacHugh. 17.00—News; Variety. 17.30—U.S. Marine Band. 18.00—Review. 18.30—Farm and Home. 19.30—Home Forum; Variety. 20.15—American Pen Women. 20.30—Melodies. 21.00—Music; Variety. 21.30—Orchestra. 21.45—Dance. 22.00—For Children. 22.45—Songs. 23.00—News; Music. 23.45—Lowell Thomas. (c) 00.00—Variety. (d) 03.00—Jack Pearl. 03.30—Orchestra. 03.45—Armchair Driver. 04.00—News; Fiddle. 04.30—Orchestras. 05.15—DX Club. 05.30—New Penn Orchestra.

**PODEBRADY, No Afternoon Programme received.** (a) 20.00—News. (b) 20.30—News; Dancing. 21.00—News (Ger.); Organ. 21.20—News (Fr.). 21.25—Pfte. Concerto (Mozart). 22.00—News (Eng.); Music.

**RIO DE JANEIRO, 23.30-00.30**—News; Talks (Eng., etc.).

**ROME, (a)** 14.20—News; Songs. 15.00-16.30—News (Eng.); Songs; Talk; Orchestra; News. 17.20-18.20—News; Guitar; Duets. 18.30-19.00—Music and Talk (Arabic). 19.40—News (Ger., Fr.). 20.10-23.30—From Rome (420.8 m.). (b) 23.30-23.45—South-American Bulletin. 00.00—American Hour from Rome: U.S.A. Bulletin; News (Eng., It.); Music; Talk.

**RUYSSELEDE (19.30-21.00)**, 19.30—News (Flem., Fr.). 20.00-21.00—Records.

**SCHENECTADY (16.00-06.00), (a)** 16.00—Variety; at 17.30—Farm Programme. 18.30—Words and Music. 19.00—Show Time Matinee. 19.30—Tune Twisters; Variety. 20.45—Orphan Annie. 21.00—Lorenzo Jones. 21.15—Personal Column; Variety. (a, b) 22.00—Stocks; Markets. 22.15—Dari Dan. 22.30—Don Winslow. 22.45—Baritone. 23.00—Education. 23.15—Songs. 23.30—News; Spanish Programme. 00.00—Amos 'n' Andy. 00.15—Uncle Ezra. 00.30—Stocks; Sports. 00.45—News (Sp.); Soprano. 01.30—Farm Forum. (b) 02.00—Waltzes. 02.30—Human Relations. 03.00—First Nighter. 03.30—Hollywood Gossip; Variety. 04.00—News; Songs. 04.30—Orchestras; Tenor.

**SUVA, 11.30-13.00—Records.**

**TOKIO (For Europe) (21.00-22.05)**, 21.00—News (Eng.). 21.15—Japanese Folk Songs. 21.45—News (Fr.).

**VATICAN CITY, (a)** 16.30—Church Notes (It.). (b) 20.00—Church Notes (Ger.).

**WARSAW, 18.30-19.30**—March (Melcer); News for Poles Abroad; Noskowski Music; Recitations; Paderewski Music.

**WAYNE (12.30-05.00), (a)** 14.40—News. 15.48—News. (c) 19.00—For Women. (d) 23.30—News. 00.45—Boake Carter. 01.00—Broadway Varieties. 02.00—Hollywood Hotel. 04.00—Philadelphia Orchestra. 04.30—Eddy Duchin and Orchestra.

**ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00)**, 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.). 14.00—News; Call (DJQ). 14.15—Songs and Dances. 15.00—News (Eng., Dutch); Topical. 15.30—Variety. 16.45—KdF.

**ZEESEN (DJD, DJL, DJC) (06.10-22.20)**, 06.10—Concert; at 07.00—News. 17.35—Call.

17.45—Pfte. Sonata (Brahms). 18.15—News. 18.30—KdF. 18.45—Dance Music; Review. 20.00—News (Eng.); Topical. 20.30—Play. 21.00—Riddles. 22.00—News (Ger., Eng.).

**ZEESEN (DJD, DJB) (22.50-05.00)**, 22.50—Call (Ger., Eng.); Harpsichord. 23.30—Folk Music. 23.45—News. 00.00—Leonore Vianna de Motta (Songs). 00.15—Band. 01.15—Topical. 01.30—Concert. 02.15—News (Eng.). 02.45—KdF. 03.00—News. 03.15—Variety. 04.30—News (Eng., Ger.).

**SATURDAY, July 24**

**EMPIRE**

**Transmission 1 (GSG, GSO, GSD, GSB)**, 04.30—Big Ben; "London Log."\* 04.40—Talk on Mungo Park.\* 05.05—BBC Military Band; Dennis Noble (Baritone).\* 05.55—News. 06.15-06.45—Gladys Cole (Soprano); Sylvia Cates (Pfte.).

**Transmission 2 (GSJ, GSH, GSG, GSG†)**, 10.20—Second Test Match: England v. New Zealand. 10.35—Sextet.\* 11.15—"London Log."\* 11.25—Dance Hits of 1930-1935.† 12.00—Big Ben; Theatre Orchestra. 12.15—Second Test Match: England v. New Zealand. 12.30—Theatre Orchestra (Cont'd). 13.00—For the Children. 13.30-13.55—News.

**Transmission 3 (GSJ, GSH, GSG, GSG†)**, 14.15—Big Ben; Sports Commentaries. 16.00—Second Test Match: England v. New Zealand. 16.15—News. 16.35-17.00—Dance Music.

**Transmission 4 (17.20-20.45 GSG, GSI, GSD, GSB; 21.00-23.00 GSG, GSO, GSF, GSB)**, 17.20—Orchestra.† 17.25—Second Test Match: England v. New Zealand. 17.35—Band: The St. David's Singers. 18.00—Big Ben; News. 18.20—"London Log."\* 18.30—"The BBC Presents the A B C."\* 19.00—Music-Hall. 20.00—British Concert Stars.† 20.20-20.45—The Paris Exhibition. 21.00—Big Ben; News. 21.20—Zoological talk.\* 21.35—Dance Music. 22.10—Sports Commentaries.\* 22.40-23.00—Dance Music.

**Transmission 5 (GSP, GSO, GSF, GSD)**, 23.20—"London Log."\* 23.30—Big Ben; Quintet: Leonard Gowings (Tenor); Alleyne and Leonhardt (Pftes.). 00.30—Variety.† 00.40—Visit to R.M.T.S. "Saint Columba."\* 01.10-01.30—News.

**Transmission 6 (GSG, GSI, GSD, GSB)**, 02.00—Sports Commentaries.\* 02.30—Albert Sammons (Violin). 02.50—"The BBC Presents the A B C."\* 03.20—"Kayles to St. Merryn."\* 03.40-04.00—News.

**BOSTON (20.00-23.30), (a)** 21.30—News. (b) 22.55—URSIGram. 23.00—News.

**BOUND BROOK (12.30-06.00), (a)** 12.55 and 14.55—News. 15.00—Sweethearts of the Air. 17.25—News. 18.30—National Grange—U.S. Army Band. 21.00—Club Matinee. 22.00—King's Jesters. 23.00—News; Nickelodeon. 23.30—News. (b) 02.00—National Barn Dance. 03.00—Variety Concert. 04.00—News; Orchestras. 05.00—Rudy Vallee Orchestra. 05.30—Olsen Orchestra.

**BUDAPEST, (b)** 00.00-01.00 (Sun.)—Record; News; Orchestra; Talk; Harp Duet; Comedy; Songs; News; Band; Anthem.

**CARACAS (13.00-03.30), (a, b)** 13.00—News. 16.45—Records. 22.00—Music. 23.15—For Children; Dancing. 00.00—News; Talks; Variety. 03.15—News.

**CHICAGO (05.00-07.00 [Sun.])**, 05.00—National Barn Dance. 06.30—Orchestra.

**HUIZEN (PHI) (14.00-16.00)**, For the Dutch Indies. 14.00—Call; Mail; Records. 14.40—Stocks. 14.55—News; Review. 15.30—Café Concert.

**MOSCOW (21.00-02.00), (b)** 21.00—For Germany. 22.05—For France. 23.00—For Spain. (c) 00.00—For Spain. 01.00—For England.

**PARIS (Radio-Colonial) (07.00-06.00), (b)** 07.00—News; Records; Review. 09.40—News (Eng., It.). (a) 11.00—Records. 11.45—Talk (Yugoslav). 12.00—News (Eng.). 12.15—Concert; Records. 13.00—Concert. 13.30—News. 14.00—Talks; Records. 14.30—Variety. (b) 17.15—News. 17.45—News (Arabic). 18.00—Concert. 18.50—Talk. 19.00—

News; Exchange. 20.10—News (Eng., It.). 20.30—To be announced. 22.30—Markets. 22.45—News (Port.). (c) 23.15—Concert. 00.15—News. 00.40—News (Sp., Port.). 01.00—Talk. 03.00—Records. 04.00—News. 04.30—News (Eng.); Records. 05.45—News (Ger.).

**PITTSBURGH (12.00-06.00), (b)** 14.00—Breakfast Club. 14.55—News. 15.00—Sweethearts. 15.15—Training Your Parents. 15.45—Orchestra. 16.00—Sammy Fuller. 16.30—To be announced. 17.00—News. 17.15—Sunshine Special. 17.30—Bavarian Orchestra. 18.00—Slim and Jack. 18.15—To be announced. 18.30—Farm and Home. 19.30—Blaufuss Orchestra. 20.00—West Vic Park Orchestra. 20.30—Kogen's Orchestra. 21.00—Club Matinée. 22.00—Weekend Revue. 22.15—Recro. 22.30—Middleman's Orchestra. 22.45—Ad. Club. 23.00—News. 23.45—Dance. (c) 00.00—Message of Israel. 00.30—Varzos Orchestra. 01.00—To be announced. 01.30—Meredith Wilson Orchestra. 02.00—Barn Dance. (d) 03.00—Cincinnati Summer Opera. 04.00—News; Orchestra. 04.45—Dance Band. 05.00—Messages to Far North. 05.15—New Penn Orchestra. 05.30—Dance Band.

**PODEBRADY, No Afternoon Programme received.** (a) 20.00—News. (b) 20.30—News. 20.40—Ballet (Tchaikovsky). 21.00—News (Ger.); Violin Concerto (Benda). 21.20—News (Fr.). 21.25—Variety. 22.00—News (Eng.); Music.

**RIO DE JANEIRO, 23.30-00.30**—News; Talks (Eng., etc.).

**ROME, (a)** 14.20—News; Choirs; Talk. 15.00-16.30—News (Eng.); Programme in Hindustani: Part I: Songs. Part II: Music; News. 17.20-18.20—News; "L'elisir d'amore" (Donizetti). 18.30-19.00—Arab Music; News (Arabic, Turk.). 19.40—News (Ger., Fr.). 20.10-00.00—From Rome (420.8 m.). (b) 00.00—U.S.A. Bulletin. 00.20—Call (It., Sp., Port.); News; "L'elisir d'amore" (Donizetti); Talk; Spanish Songs; News (Sp., Port.).

**RUYSSELEDE (19.30-21.00)**, 19.30—News (Flem., Fr.). 20.00—From Brussels (2). 20.45-21.00—Records.

**SCHENECTADY (16.00-06.00), (a)** 16.00—To be announced. 16.15—Nancy Swanson (Songs). 16.30—Mystery Chef. 16.45—Dixie Debs. 17.00—Continental. 17.30—Farm Programme. (a, b) 18.00—Whitney Ensemble. 18.30—Campus Capers. 19.00—Your Host is Buffalo. 19.30—Golden Melodies. 20.00—Concert Miniaures. 20.30—Weekend Revue. 21.30—To be announced. 22.30—Kindergarten. 23.00—Top Hatters. 23.30—News. 23.35—Alma Kitchell (Contralto). 23.45—The Art of Living. 00.00—El Chico, Spanish Revue. 00.30—Stocks; Sports. 01.00—Jamboree. (b) 02.00—To be announced. 03.30—Orchestras.

**SUVA, 11.30-13.00—Records.**

**TOKIO (For Europe) (21.00-22.05)**, 21.00—News (Eng.). 21.15—Entertainment or Eye-witness Accounts.

**VATICAN CITY, (a)** 16.30—Church Notes (It.). (b) 20.00—Church Notes (Dutch).

**WAYNE (12.30-04.00), (a)** 15.00—News. (d) 23.10—News. 00.00—Swing Session. 00.15—Ted Husing. 02.00—Grace Moore. 03.00—Hit Parade.

**ZEESEN (DJB, DJN, DJE, DJQ) (11.55-17.00)**, 11.55—Call (Ger., Eng.); Concert; at 13.00—News (Eng.). 14.00—News; Call (DJQ). 14.15—Zither. 15.00—News (Eng., Dutch); Topical. 15.30—Pfte. Trio (Loewe). 16.00—Act I, "Lohengrin" (Wagner) from Bayreuth.

**ZEESEN (DJD, DJL, DJC) (06.10-22.20)**, 06.10—Concert; at 07.00—News. 17.35—Call. 17.45—Act II, "Lohengrin" (Wagner) from Bayreuth. 19.10—News; Band. 19.55—Act III, "Lohengrin," from Bayreuth. 21.00—Dance Music. 22.00—News (Ger., Eng.).

**ZEESEN (DJD, DJB) (22.50-05.00)**, 22.50—Call (Ger., Eng.); Talk. 23.30—Band; at 23.45—News. 00.15—Act I, "Lohengrin" (Wagner), from Bayreuth (Recorded). 01.30—Topical. 01.45—Act II, "Lohengrin."\* 03.10—News. 03.25—Act III, "Lohengrin."\* 04.30—News (Bag., Ger.).



# Long and Medium Wave Programmes

## SUNDAY JULY 18

### 10 a.m.

**BRUSSELS (1)**, Records. **BRUSSELS (2)**, Felleman Orchestra from the Casino, Blankenberghe. 10.45—Berens (Cinema Organ).  
**MUNICH and GERMAN STATIONS**, 10.30—Inauguration of the House of German Art and Opening of the Great German Art Exhibition.  
**RADIO-PARIS**, Records. Light Music.  
**VIENNA**, Missa Solennis in B flat minor (Bruckner) from the Abbey of St. Florian.

### 11 a.m.

**BRUSSELS (1)**, Felleman Orchestra from the Casino, Blankenberghe. **BRUSSELS (2)**, Organ (contd.). 11.15—Bogaers (Songs). 11.30—Records.  
**MUNICH and GERMAN STATIONS**, Inauguration and Opening of the Art Exhibition (contd.).  
**RADIO-PARIS**, Records (contd.). 11.30—Cellier (Organ).  
**VIENNA**, Missa Solennis (contd.). 11.45—Notes.

### 12 noon

**BERLIN and SOME GERMAN STATIONS**, Light Classical Music. **BRUSSELS (1)**, Records. **BRUSSELS (2)**, Orchestra, Violin.  
**HAMBURG**, Band.  
**MUNICH**, Orchestra.  
**RADIO-PARIS**, Roman Catholic Address. 12.20—Records. 12.30—The Cantoria. Conductor: Meunier.  
**VIENNA**, Notes; Songs. 12.50—Band.

### 1 p.m.

**BERLIN and SOME GERMAN STATIONS**, Music (contd.). **BRUSSELS (1)**, News. 1.10—Orchestra. **BRUSSELS (2)**, News. 1.10—Records.  
**COLOGNE, DEUTSCHLANDSENDER and MUNICH**, Orchestra, Songs.  
**HILVERSUM (1,875 m.)**, Orchestra. 1.20—Organ. 1.40—Books. **HILVERSUM (301.5 m.)**, Orchestra. 1.40—Religious Instruction.  
**PARIS (PTT)**, Light Music and Dance Music.  
**RADIO-PARIS**, The Cantoria (contd.). 1.15—Records. 1.30—News; Songs.  
**VIENNA**, Band.

### 2 p.m.

**BERLIN**, Records. 2.30—From the Kurmark. **BRESLAU**, News; Reading. 2.30—Chamber Music Ensemble, etc.; Talk. **BRUSSELS (1)**, 2.0—Art Notes; Records. **BRUSSELS (2)**, 2.15—Orchestra.  
**COLOGNE**, Orchestra, Songs. 2.30—Hints and Talks.  
**DEUTSCHLANDSENDER**, Fairy Play. 2.30—Songs.  
**FRANKFURT**, Play. 2.30—Records.  
**HAMBURG**, Play and Stories. **HILVERSUM (1,875 m.)**, Books. 2.10—Choir. 2.30—Records. 2.40—Concert from the Kurhaus, Scheveningen. The Hague Orchestra, Conductor: Neumark. Hans Schouwman (Pfte.). Jacqueline Roussel (Cello). (Gluck, Haydn, Boccherini, Liszt, Wagner). **HILVERSUM (301.5 m.)**, Religious Instruction. 2.10—Records.  
**KÖNIGSBERG**, Chess. 2.30—"Song of Summer"—Sequence with Music.  
**LEIPZIG**, 2.5—Johann Strauss Records.  
**MUNICH**, Play with Music.  
**PARIS (PTT)**, Records. 2.30—Play.  
**RADIO-PARIS**, For Young People.  
**STUTTGART**, See Frankfurt. 2.30—Records.  
**VIENNA**, Notes; Books. 2.45—News.

### 3 p.m.

**BERLIN**, Light Music. **BRESLAU**, Chamber Music Ensemble, etc. (contd.). 3.20—"Summer"—Sequence. 3.30—See Munich. **BRUSSELS (1)**, Organ. 3.30—Orchestra. **BRUSSELS (2)**, Orchestra; Records; Reading.  
**COLOGNE**, Male Voice Choir. Pfte. 3.30—See Munich.  
**DEUTSCHLANDSENDER**, Records. 3.30—See Munich.  
**FRANKFURT**, Records. 3.30—Legends, Fairy Tales, Ballads, Songs.  
**HAMBURG**, Band and Reports. **HILVERSUM (1,875 m.)**, Concert (contd.). **HILVERSUM (301.5 m.)**, Records. 3.10—KRO Orchestra. Mlle Verkroost (Soprano).  
**KÖNIGSBERG**, Sequence (contd.). 3.10—Talk. 3.30—See Munich.  
**LEIPZIG**, A Story. 3.20—Songs. **MUNICH**, Song Cycle (Sieg). 3.30—Two Thousand Years of German Culture—Relay of the Festival Procession.  
**PARIS (PTT) and STRASBOURG**, Songs. 3.30—Light Music.  
**RADIO-PARIS**, Mandoline. 3.15—Orchestra; Songs.  
**STUTTGART**, Choirs.  
**VIENNA**, Bruckner Festival from the Abbey of St. Florian. Part I. Address by Dr. Vinzenz Hartl. Music of Anton Bruckner's Choir-boy Days in St. Florian. Part II. Second Symphony in C minor (Bruckner).

### 4 p.m.

**BRUSSELS (1)**, Orchestra. 4.15—Alpaerts Trio (Hummel, Schumann, de Bourguignon). **BRUSSELS (2)**, Dance Band. 4.30—Iris Vanneste (Pfte.).  
**FRANKFURT**, Orchestra, Reports.  
**HAMBURG**, Band (contd.). 4.30—German Operetta and Light Music from Saarbrücken. **HILVERSUM (1,875 m.)**, Concert (contd.); Report. 4.40—Light Music. **HILVERSUM (301.5 m.)**, Records. 4.10—For Invalids; Records.  
**KALUNDBORG**, Wind Band. 4.50—International Confectioners' Regatta.  
**MUNICH, BRESLAU, COLOGNE, DEUTSCHLANDSENDER and KÖNIGSBERG**, Festival Procession (contd.).  
**PARIS (PTT) and STRASBOURG**, Light Music. 4.30—Report from Villacoublay.  
**RADIO-PARIS**, "C'est Jeune"—Play (Ruth).  
**STUTTGART, BERLIN and LEIPZIG**, German Operetta and Light Music from Saarbrücken.  
**VIENNA**, Bruckner Festival (contd.). 4.50—Rustic Music.

### 5 p.m.

**ATHLONE**, 5.30—Act I, "Aida" (Verdi).  
**BRUSSELS (1)**, Play (Zette). 5.40—Orchestra. **BRUSSELS (2)**, Orchestra.  
**FRANKFURT**, Orchestra (contd.).  
**HILVERSUM (1,875 m.)**, Light Music; Sports. **HILVERSUM (301.5 m.)**, Records. 5.10—Service.  
**KALUNDBORG**, Regatta (contd.). 5.10—Finnish Music.  
**MOSCOW**, Literary Programme. 5.30—Programme from Kiev.  
**MUNICH, BRESLAU, COLOGNE, DEUTSCHLANDSENDER and KÖNIGSBERG**, Festival Procession (contd.).  
**PARIS (PTT)**, Report (contd.). 5.30—Dramatic Programme.  
**RADIO-PARIS**, Andolfi Orchestra.  
**ROME**, 5.15—Variety. Concert.  
**STRASBOURG**, Records. 5.30—See Paris (PTT). **STUTTGART, BERLIN, HAMBURG and LEIPZIG**, Music (contd.).  
**TURIN**, 5.15—Opera Music.  
**VIENNA**, Rustic Music. 5.20—Reading; Talk.

### 6 p.m.

**ATHLONE**, "Aida" (contd.). 6.35—Irish Ballads.  
**BERLIN**, Records. **BEROMÜNSTER**, 6.5—Talk. 6.25—Folk Songs; Talk. **BRESLAU**, Talk.

6.20—Reading. 6.30—Light Music. **BRUSSELS (1)**, Orchestra. 6.15—Records. **BRUSSELS (2)**, Records. 6.15—Organ. 6.45—Address. **BUDAPEST (1)**, 6.15—Salon Orchestra. **COLOGNE and MUNICH**, Ottersbach Trio, Baritone, Pfte. **DEUTSCHLANDSENDER**, Roos Band. 6.50—Story.  
**FRANKFURT**, A Modern Fairy Tale with Music.  
**HAMBURG**, Dialect Play. 6.45—Records. **HILVERSUM (1,875 m.)**, Records. 6.40—VARA Theatre Orchestra, Jong (Pfte.), B. v. Dongen (Songs). **HILVERSUM (301.5 m.)**, Service (contd.); Records; Organ.  
**KALUNDBORG**, Reading. 6.20—Talk. **KÖNIGSBERG**, Sketches and Ballads. 6.40—Börschel and his Soloists, etc.  
**LEIPZIG**, Variety Concert.  
**MOSCOW**, Programme from Kiev. **OSLO**, 6.30—Orchestra.  
**PARIS (PTT)**, Dramatic Programme. 6.30—Records.  
**RADIO-NORMANDIE**, Music-Hall and Orchestra. **RADIO-PARIS**, Andolfi Orchestra.  
**ROME**, Concert (contd.). 6.15—Report.  
**SOTTENS**, 6.30—Louis Vierne Organ Music. **STRASBOURG**, See Paris (PTT). 6.30—Talk; Records. **STUTTGART**, "Thomas Murner"—Play with Music.  
**TURIN**, Sports; Opera Music. 6.15—See Rome; Sports.  
**VIENNA**, 6.5—Talk with Records. 6.40—Reading.  
**WARSAW**, Orchestra, etc.

### 7 p.m.

**ATHLONE**, 7.5—Songs. 7.40—Irish Music.  
**BERLIN**, Sports. 7.20—Folk Music. **BEROMÜNSTER**, Records. 7.45—News. 7.57—Russian Music—Orchestra.  
**BRESLAU**, Light Music. 7.30—Sports. **BRUSSELS (1)**, Address; Records. 7.30—News. **BRUSSELS (2)**, Light Orchestra. 7.30—Films. **BUCHAREST and RADIO-ROMANIA**, Light and Dance Music. 7.30—Talk. 7.50—Light Music. **BUDAPEST (1)**, Salon Orchestra. 7.15—To be announced.  
**COLOGNE**, Report. 7.10—"Summer Flowers"—Sequence with Music. 7.30—Review; Sports.  
**DEUTSCHLANDSENDER**, Band (contd.). 7.30—Sports.  
**EIFFEL TOWER**, "La Servante sans gage"—Play (Yole).  
**FRANKFURT**, Fairy Tale (contd.). 7.40—Sports.  
**HAMBURG**, Records. 7.30—Sports. **HILVERSUM (1,875 m.)**, Orchestra, etc. (contd.). 7.40—News. 7.55—Kovacs Lajos Orchestra, Records. **HILVERSUM (301.5 m.)**, Organ; Records. 7.30—Address; Review.  
**KALUNDBORG**, News. 7.30—Talk. **KÖNIGSBERG**, Börschel and his Soloists, etc. (contd.). 7.40—Sports.  
**LEIPZIG**, "Summer along the Elbe"—Sequence with Music.  
**MONTE CENERI**, 7.20—Folk Band. 7.45—News. 7.55—"The Generalissimo"—Play (Moinar). **MOSCOW**, Concert. **MUNICH**, German Verse and Songs.  
**OSLO**, Orchestra.  
**PARIS (PTT)**, News.  
**RADIO-NORMANDIE**, Records; Songs; News. **RADIO-PARIS**, Bilboquet. 7.30—"Old Houses"—Two Sketches (Davenay).  
**ROME and TURIN**, 7.30—Sports; Music.  
**SOTTENS**, Radio Films. 7.45—News. **STOCKHOLM**, 7.15—News. 7.30—Witkowski (Pfte.).  
**STRASBOURG**, News; For Farmers. **STUTTGART**, Records. 7.45—Talk.  
**VIENNA**, Sports; Review. 7.35—"Der Schätzmeister" (Ziehrer).  
**WARSAW**, Orchestra, etc.

### 8 p.m.

**ATHLONE**, Irish Music. 8.10—Story. 8.30—Pfte.  
**BEROMÜNSTER**, Russian Music. 8.35—Talk. **BRESLAU**, Variety. **BRUSSELS (1)**, French Music. **BRUSSELS (2)**, Rosenberg Cantata (Ontrop). Conductor: The Composer. 8.45—"The Borinage"—Sequence. **BUCHAREST and RADIO-ROMANIA**, Light Music. 8.20—Orchestra. **BUDA-**

**PEST (1)**, To be announced. 8.30—Sports. 8.40—Rétkai Programme.  
**COLOGNE**, Great German Composers—Orchestra, Choir, etc.  
**DEUTSCHLANDSENDER**, Band, Choir, etc. 8.20—"Song of the Danube"—Musical Picture Book.  
**EIFFEL TOWER**, Play (contd.). 8.30—Orchestra, 'Cello, Songs.  
**FRANKFURT**, Orchestra. 8.50—Talk.  
**HAMBURG and BERLIN**, Waltzes and Marches. **HILVERSUM (1,875 m.)**, Orchestra (contd.). 8.55—Topical. **HILVERSUM (301.5 m.)**, 8.5—KRO Melodists, Songs. 8.40—Records; Poems.  
**KALUNDBORG**, Choir. 8.25—Reading; Records. **KÖNIGSBERG**, Concert for the German Art Congress. Orchestra, Grete Schöberl (Pfte.). (Bach, Beethoven, Bruckner).  
**LEIPZIG**, Orchestra, etc. **LILLE**, 8.30—Orchestra, Songs.  
**MONTE CENERI**, Play (contd.).  
**MOSCOW**, Concert. **MUNICH**, Reports of the Pageants and Revelry from the House of German Art and from the Exhibition Park and the Kleinhesseloher-See. 8.50—A Baroque Summer Festival.  
**OSLO**, Orchestra. 8.20—Report.  
**PARIS (PTT)**, Report; Records. 8.30—Variety. **PBAGUE**, Orchestra. 8.40—Sketch.  
**RADIO-NORMANDIE**, Concert.  
**RADIO-PARIS**, Review. 8.15—Songs. 8.30—Dramatic Programme. **ROME and TURIN**, Music. 8.10—News. 8.30—Talk.  
**SOTTENS**, Sports; Records; Talk. **STOCKHOLM**, Report. 8.30—Swedish and Norwegian Music. **STRASBOURG**, Report; News (German). 8.22—News. 8.40—Beethoven and Brahms Concert. **STUTTGART**, See Munich. 8.50—See Frankfurt.  
**TOULOUSE**, Concert.  
**VIENNA**, "Der Schätzmeister" (Ziehrer) (contd.).  
**WARSAW**, Records; Notes; News.

### 9 p.m.

**ATHLONE**, Talk, with Songs. 9.30—Variety.  
**BEROMÜNSTER**, Two Pfes. 9.35—The Blue Meteor. **BRESLAU**, Concert from Schloss Fürstenstein (v. Dittersdorf, Mozart). **BRNO and PRAGUE**, Orchestra, Soprano, Pfte. **BRUSSELS (1)**, Variety. **BRUSSELS (2)**, Popular Concert from the Kursaal, Ostend.  
**BUCHAREST and RADIO-ROMANIA**, Orchestra. 9.30—News. **BUDAPEST (1)**, Rétkai Programme.  
**COLOGNE**, Orchestra, etc. (contd.).  
**DEUTSCHLANDSENDER**, "Song of the Danube" (contd.).  
**EIFFEL TOWER**, Orchestra, 'Cello, Songs.  
**HAMBURG and BERLIN**, Waltzes and Marches. **HILVERSUM (1,875 m.)**, Topical. 9.10—Symphony Concert from the Kurhaus, Scheveningen. The Hague Orchestra, Conductor: Schuricht. Oda Slobadszkaja (Songs) (Smetana, Tchaikovsky, Glinka). 9.55—Play. **HILVERSUM (301.5 m.)**, Talk. 9.10—Recording of the Missa solennis in B flat (Bruckner), from the Abbey of St. Florian, Upper Austria.  
**KALUNDBORG**, Folk Dances. **KÖNIGSBERG**, Concert (contd.).  
**LEIPZIG**, Orchestra, etc. (contd.).  
**LILLE**, Orchestra, Songs.  
**MOSCOW**, For Germany. **MUNICH**, Summer Festival (contd.). 9.40—Open-Air Dancing and Fireworks.  
**OSLO**, Violin, Pfte. 9.40—News.  
**PARIS (PTT)**, Variety. **POSTE PARISIEN**, News. 9.10—Amateurs.  
**RADIO-NORMANDIE**, Concert. 9.30—Humour. **RADIO-PARIS**, Dramatic Programme. **ROME**, **FRANKFURT**, **MONTE CENERI**, **SOTTENS**, **STUTTGART**, and **WARSAW**, "L'elisir d'amore" (Donizetti). Conductor: Berrettoni.  
**STOCKHOLM**, Music (contd.). 9.45—News. **STRASBOURG**, Concert (contd.).  
**TOULOUSE**, Light Music. 9.50—

Paris Programme. **TURIN**, Naval Band.  
**VIENNA**, "Der Schätzmeister" (Ziehrer) (contd.). 9.45—Records.

### 10 p.m.

**ATHLONE**, Variety. 10.30—News.  
**BEROMÜNSTER**, The Blue Meteor. 10.30—Announcements. **BRUSSELS (1)**, News. 10.10—Belgian Folk Festival from the Paris Exhibition. **BRUSSELS (2)**, Concert (contd.). 10.30—News. 10.40—Dance Band. **BUCHAREST and RADIO-ROMANIA**, Records. **BUDAPEST (1)**, Rétkai Programme. 10.15—Opera Orchestra.  
**COLOGNE**, News. 10.25—Report. 10.40—Dance Music from Deutschlandsender.  
**DEUTSCHLANDSENDER, BERLIN, BRESLAU, HAMBURG and LEIPZIG**, News. 10.30—Dance Music.  
**HILVERSUM (1,875 m.)**, Play (contd.). 10.30—Records. 10.40—News. 10.50—Dance Band. **HILVERSUM (301.5 m.)**, Missa solennis (contd.). 10.10—Press Review. 10.20—Epilogue.  
**KALUNDBORG**, News. 10.15—Orchestra, Pfte. **KÖNIGSBERG**, News. 10.20—Reports. 10.40—Music from Deutschlandsender.  
**LILLE**, Orchestra, Songs. 10.30—News.  
**MOSCOW**, 10.5—English Talk: Leningrad To-day and Twenty Years Ago—The Arrest of Lenin in 1917. **MUNICH**, News. 10.30—Dance Music and Reports.  
**OSLO**, News. 10.15—Dance Records.  
**PARIS (PTT)**, Variety. 10.30—News; Records. **POSTE PARISIEN**, Amateurs. 10.30—Records. **PRAGUE and BRNO**, News. 10.30—News (German). 10.35—Jazz Band.  
**RADIO-NORMANDIE**, Talk. 10.15—Variety. **RADIO-PARIS**, Dramatic Programme; Records. 10.45—News. **ROME, FRANKFURT, MONTE CENERI, SOTTENS, STUTTGART and WARSAW**, "L'elisir d'amore" (Donizetti) (contd.).  
**STOCKHOLM**, Songs, Violin, Pfte. **STRASBOURG**, Concert (contd.). 10.30—News.  
**TOULOUSE**, Paris Programme. 10.20—Concert. **TURIN**, Naval Band. 10.15—News (German). 10.20—Maria Golia (Pfte.).  
**VIENNA**, Records. 10.10—News. 10.30—Dance Band.

### 11 p.m.

**BRUSSELS (1)**, Dance Records. **BRUSSELS (2)**, Dance Band. 11.30—Records. **BUDAPEST (1)**, Opera Orchestra. 11.30—Jazz Band.  
**DEUTSCHLANDSENDER, and MOST GERMAN STATIONS**, Dance Music.  
**FRANKFURT**, See Rome. 11.30—Dance Music from Deutschlandsender.  
**HILVERSUM (1,875 m.)**, Dance Band.  
**KALUNDBORG**, Orchestra. 11.10—Dance Band.  
**MOSCOW**, For Germany. **MUNICH**, Music (contd.).  
**POSTE PARISIEN**, Records. **PRAGUE and BRNO**, Jazz Band.  
**RADIO-NORMANDIE**, Light Music; Records. **RADIO-PARIS and PARIS (PTT)**, Dance Band. **ROME, MONTE CENERI, SOTTENS and WARSAW**, "L'elisir d'amore" (Donizetti) (contd.).  
**STRASBOURG**, News (German). 11.5—Dance Music. **STUTTGART**, See Rome. 11.30—Dance Records.  
**TOULOUSE**, Music. **TURIN**, News. 11.15—Dance Music.  
**VIENNA**, Dance Band.

### 12 midnight

**DEUTSCHLANDSENDER, and BERLIN**, Dance Music.  
**FRANKFURT and STUTTGART**, Mozart, Grieg and Debussy Records.  
**KALUNDBORG**, Dance Band.  
**MOSCOW**, For Spain. **MUNICH**, Music (contd.).  
**RADIO-PARIS and PARIS (PTT)**, Dance Band. **RADIO-NORMANDIE**, Music.

### 1 a.m. (Monday)

**MUNICH**, Music (contd.).



**NATIONAL**

**Time Signals:** Big Ben, 12.30, 10.45 p.m. Greenwich, 10.30 a.m., 4.0, 9.0 p.m. D=Droitwich.  
**9.25-10.15 a.m. (D)**—Service (C. of E.).  
**10.30-10.45 (D)**—Weather Forecast.  
**12.30 p.m. (D)**—Band: Jean Craig (Mezzo-Soprano).  
**1.30 (D)**—Alfredo Campoli Trio.  
**2.0 (D)**—Short Story.  
**2.15 (D)**—Records.  
**2.50 — Merchant Navy Week: Service.** 3.45—Records.  
**4.0**—Mrs. Norman O'Neill (Pfte.).  
**4.30**—Falkman Apache Band.  
**5.0**—“What to look for in churches” —F. C. Eeles.  
**5.20**—Tango Orchestra.  
**6.0**—“The Cinema”—Robert Herring.  
**6.15**—Chamber Music: John McKenna (Tenor); The London String Trio.  
**7.20**—The Alphas.  
**7.55**—Service (C. of E.).  
**8.45**—Appeal on behalf of St. Vincent's Orthopaedic Hospital, Eastcote, Middlesex. 8.50—The News.  
**9.5**—BBC Theatre Orchestra.  
**9.50**—The London Mozart Orchestra: Kathleen Cooper (Pfte.).  
**10.30**—Epilogue.

**REGIONAL**

**Time Signals:** Big Ben, 12.30, 10.45 p.m. Greenwich, 4.0, 9.0 p.m.  
**12.30 p.m. (ex. Midland, Western)**—National.  
**2.50**—The London Palladium Orchestra. 3.45—Records.  
**4.0 (ex. Midland, Welsh, Scottish)**—Frank Biffo's Brass Quintet.  
**4.0 (Midland)**—Military Band.  
**4.0 (Welsh)**—Welsh talk.  
**4.0 (Scottish)**—Talk.  
**4.15 (Scottish)**—Catherine Stewart (Contralto).  
**4.20 (Welsh)**—Records.  
**4.30 (ex. Welsh)**—For Children.  
**4.30 (Welsh)**—Aneurin Rees (Organ).  
**5.0 (ex. Welsh)**—Reginald Foort at the BBC Theatre Organ.  
**5.0 (Welsh)**—Welsh Regional Trio.  
**5.20 (ex. Welsh)**—BBC Northern Orchestra.  
**5.20 (Welsh)**—Rhiannon James (Harp).  
**5.40 (Welsh)**—Richard Price.  
**6.15 (ex. Northern, Western)**—The Grand Junction Railway.  
**6.15 (Northern)**—“Music of the People.”  
**6.15 (Western)**—“Avebury.”  
**6.30 (Regional, Welsh)**—BBC Military Band: Dennis Noble (Baritone).  
**6.30 (Midland, Western)**—Aston Hippodrome Orchestra: Robert King (Treble).  
**6.30 (N. Ireland)**—Philip Whiteway Ensemble.  
**6.30 (Scottish)**—Perth Theatre Company in “A Hundred Years Old.”  
**6.55 (N. Ireland)**—Service (C. of Ireland).  
**7.20 (ex. Western, N. Ireland, Scottish)**—Verse and Song.  
**7.20 (Western)**—Records.  
**7.55 (Regional, Northern, N. Ireland 8.0)**—Services.  
**8.45**—Appeals.  
**8.50**—The News.  
**9.5 (ex. Midland, Welsh)**—Why London?  
**9.5 (Midland, Welsh)**—Welsh Community Hymn-Singing.  
**9.35 (Midland)**—“Castle Ashby.”  
**9.35 (Welsh)**—Hubert Pengelly (Pfte.).  
**9.50 (ex. Western)**—Fred Hartley and his Sextet.  
**9.50 (Western)**—Torquay Municipal Orchestra: Olive Goff (Soprano).  
**10.30**—Epilogue.

**Hours of Transmission in British Summer Time.**

**ATHLONE (Ireland)**  
 565 kc/s (531 m.); 100 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,235 kc/s (242.9 m.).  
**1.30-3.0 p.m.**—Records.  
**5.30**—Act 1, “Aida” (Verdi). 6.35—Irish Ballads and their History by Muimhneachain. 7.5—Hubert Valentine (Tenor) and Michael O'Higgins (Baritone). 7.40—Irish Music by the “An Ceol Cumainn.” 8.10—A Famous Short Story.  
**8.30**—Handel, Mozart, Haydn, Schumann and Weismann Music by Otto Stoterau (Pfte.).  
**9.0**—“With Donnie to the Isles,” illustrated with Scottish Gaelic Songs by Colm O'Lochlainn. 9.30—Variety. 10.30—News. 10.40—Sports. 11.0—National Anthem.  
**BARCELONA (EAJ1) (Spain)**  
 795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m.  
**7.0 p.m.**—Time; Dance Music. 8.0—Song Records. 9.0—Records. 10.0—Time; News; Jazz Records; at 11.0—Time; News. 12.0 m't.-1.0 a.m. (Monday)—News (Italian, German, French, Portuguese).  
**BERLIN (Germany)**  
 841 kc/s (356.7 m.); 100 kW.  
**6.0 a.m.**—Call; Weather. 6.10—Gym. 6.30—Concert from Hamburg. 8.0—Gym. 8.25—Serenade (Recorded). 8.55—Chimes and Service from Potsdam Garrison Church. 9.55—Cathedral Chimes. 10.0—Weather. 10.5—Richard Strauss Records. 10.20—To be announced.  
**10.30**—See Munich.  
**12.0 noon**—Light Classical Music. Band, Conductor: Teichmann. Waldemar Hass Orchestra, Saxophone Quartet. 2.0 p.m.—Records. 2.30—Echoes from the Kurmark. 3.0—Light Music by the Fröhlich Band.  
**4.0**—See Stuttgart.  
**6.0**—Records. Norwegian Artists' Carnival (Svendsen). Conductor: Järnefelt. German Dances (Schubert-Liszt) by Winfried Wolf (Pfte.). Funiculi Funicula (Denza) by Miliza Korjus. Finlandia (Sibelius), Conductor: Järnefelt. Russian Folk Song by the Don Cossack Choir. Kamarinskaya (Glinka). Conductor: Järnefelt. Gipsy Dance (Smetana) by Wilhelm Backhaus (Pfte.). Tales from the Vienna Woods (Strauss) by the Berlin Opera Orchestra. Spanish Caprice (Rimsky-Korsakov), Conductor: Hamilton Harty. 7.0—Sports.  
**7.20**—Folk Music. Freundorfer and his Quartet. Reuter Accordion Trio. Bernauer (Songs).  
**8.0**—See Hamburg. 10.0—News.  
**10.30 p.m.-12.55 a.m. (Monday)**—See Deutschlandsender.  
**BEROMÜNSTER (Switzerland)**  
 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).  
**9.30 a.m.**—Roman Catholic Service.  
**10.0**—See Vienna. 11.15—Military Festival in Lucerne. 12.0 noon—Zürich Radio Orchestra; at 12.30 p.m.—News. 1.30—Report: The Schloss Schadau War Museum. 1.55—Yodels. 2.10—Dialect Reading. 2.25—Records.  
**3.0**—Programme from Lucerne  
**5.0**—Records: Dances of the Rococo Period. 5.35—To be announced. 5.50—Berne Zither Trio. 6.5—Talk.  
**6.25**—French-Swiss Folk Songs by Marcel Crot (Baritone). 6.40—Talk: Poets and writers of Vaud. 7.0—Records. 7.45—News.

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(W.R.)



## SUNDAY (July 18)

7.57—Russian Music. Radio Orchestra, Conductor: Bernhard. 8.35—Literary Talk: Dostoevsky and Gottlieb. 9.0—Paul Schaller and Christa Hinrichs (Pftes.). 9.35—The Blue Meteor. 10.30—Sports. 10.35—Announcements.

## BORDEAUX-LAFAYETTE

(France)  
1,077 kc/s (278.6 m.); 35 kW. Transmits at intervals from 6.50 a.m. 8.30 p.m.—“Fanny and the Servant Problem”—Play (Jerome K. Jerome). 10.30—News. 10.45—Music. 11.0—11.5—Weather.

## BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. 6.30-8.55 a.m.—See Prague. 8.55—Anniversaries. 9.0—Mass from the Franciscan Church. 10.0—Roman Catholic Address. 10.15—Records. 10.25—Literary Programme from Kosice.

10.55 a.m.—12.20 p.m.—See Prague. 12.20—Variety Concert from Moravska-Ostrava.

1.45—See Brno. 2.0—Record. 2.5—For Farmers (Hungarian). 2.20—Water Level.

3.30—See Prague.

4.0—Promenade Concert—Pistany Spa Orchestra. Conductor: Obruca.

5.0—Folk Play from Kosice. 5.30—Cigány Band from Kosice. 6.0—Hungarian Transmission: Talk; Folk Songs by the Typographia Choral Society. 6.45—Records.

7.0-8.40—See Prague. 8.40—“Ochorel gazda”—Folk Play (Lacková).

9.0—See Brno.

9.55-10.25—See Prague. 10.25—News and Sports (Hungarian).

10.35-11.30—See Prague.

## BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.).

5.0 a.m.—Folk Music (Recorded). 6.0—See Hamburg. 8.0—Motto. 8.10—Songs. 8.50—News; Greetings.

9.0—Service. 9.30—Preludes (Chopin) by Ruth Werner-Stelzer (Pfte.). 10.0-10.20—Häusler Schrammel Quartet. 10.30—See Munich.

12.0 noon—See Berlin. 2.0 p.m.—News. 2.10—Reading.

2.30 (from Gleiwitz)—Beuthen Chamber Music Ensemble, Margarete May-Franz (Soprano). Albert Gärtner (Tenor). Alfred Kasprzyk (Clarinet). Scherzer (Pfte.). Talk by Günther Beitz. 3.20—“Summer”—Sequence (Sturm), with Weissbrodt Verse.

3.30—See Munich. 6.0—Talk: Harvest Customs. 6.20—Josef Taiber—Dialect Reading. 6.30 (from Gleiwitz)—Light Music. Orchestra and Soloists, Conductor: Gielnik. 7.30—Report: The International Light Athletics Championship in Breslau; Sports.

8.0—Variety with Records.

9.0—Concert from Schloss Fürstenstein. Silesian String Quartet, Gerhard Betermann (Baritone) and Kurt Hattwig (Pfte. and Harpsichord). Report by Hans Spelsberg (Harpsichord). Concerto in A (v. Dittersdorf). Songs (Mozart). Quartet in G minor (Mozart). 10.0—News.

10.30-12.0 m't.—See Deutschlandsender.

BRNO (Czechoslovakia)  
922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.30 a.m.

5.35 p.m.—German Transmission: Talk; Variety Concert.

6.50-8.40—See Prague. 8.40—Literary Programme.

9.0—Station Orchestra. Conductor:

Plichta. Lola Kratochvilova (Soprano). Vanura (Pfte.). Overture, “A Night at Karlstein” (Fibich). Two Songs (Schubert): (a) Gretchen am Spinnrade, (b) Ave Maria. Legends (Dvorák). Rondo brillant (Mendelssohn). Czech Dances (Smetana). Spanish Caprice (Rimsky-Korsakov). 9.55-11.30—See Prague.

## BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 5.0-5.10 and 6.0-6.10 a.m.—Homing-pigeon Notes. 6.37-9.0—Records; Gym; News; Homing-pigeon Notes.

9.0—Records. Part I: Request. Part II: Milhaud Pfte. Music. Part III: New Records.

11.0—Felleman Orchestra from Blankenberghe Kursaal. 12.0 noon—Boellmann and Lully Records. 12.20 p.m.—Records: Scenes from “Le

Selection, “La Poupée” (Audran). 6.15—Records. 7.0—Address by Canon Vieujean. 7.15—Records. 7.30—News.

8.0—French Music. Radio Orchestra. Conductor: Douliez. Mme. Mining-Steens (Songs), Michot (Violin). Fête, La Rhapsodie sur des thèmes populaires (Gaubert). La Mosquée de Paris (Ibert). Violin: La précieuse (Couperin). Excerpts, “Agnès, dame galante” (Février). Songs:

(a) Le temps de lilas (Chausson), (b) Chanson triste (Duparc), (c) Nocturne (Lekeu). Ballet, “Faust” (Gounod).

9.0—Variety, with Rita and Germaine (Duettists), Pielle (Baritone), Steurs (Accordion). 10.0—News.

10.10 12.0 m't.—Commentary on the Belgian Folk Festival, from the Paris Exhibition, followed by Dance Records.

## PRINCIPAL EVENTS

## SERVICES AND SACRED MUSIC

A.M.

10.0 Kalundborg: Service.

10.0 Vienna: Bruckner Festival.

11.0 Italian stations: Mass.

P.M.

12.30 Radio-Paris: Church music.

6.0 Stockholm: Evensong.

## SYMPHONY CONCERTS

2.40, 9.10 Hilversum (1,875 m.): From Scheveningen Kurhaus.

3.0 Vienna: Bruckner Festival.

8.0 Cologne: German Masters.

8.0 Königsberg: Bruckner No. 3.

8.40 Strasbourg: Beethoven, Brahms.

9.10 Hilversum (301.5 m.): Bruckner (Vienna rec.).

## LIGHT CONCERTS

3.15 Radio-Paris: Raiter Orch.

4.0 Frankfurt: Spa orchestra.

4.0 Kalundborg: Band.

5.15 Turin: Opera music.

6.30 Oslo: Popular orchestral.

6.40 Hilversum (1,875 m.): VARA Orchestra, pfte., songs.

7.40 Athlone: Irish music.

7.57 Beromünster: Russian music.

8.0 Brussels 1: French music.

8.0 Frankfurt: Pop. orchestral.

8.0 Hamburg: Waltzes, marches.

8.0 Kalundborg: Choir.

8.20 Deutschlandsender: “The Song of the Danube.”

8.30 Eiffel Tower: Popular orch.

8.30 Paris (PTT): Variety.

8.30 Stockholm: Scandinavian.

9.0 Brno, Prague: Orchestra, songs, pfte.

9.0 Brussels 2: From Ostend.

9.0 Kalundborg: Folk dances.

10.0 Stockholm: “Summer.”

10.15 Kalundborg: Classics.

12.0 Frankfurt, Stuttgart: Records.

## OPERAS

5.30 Athlone: “Aida,” Act I.

9.0 Rome, etc.: “The Love Philtre.”

## OPERETTA

7.35 Vienna: “Der Schätzmeister.”

## BECITALS

6.30 Sottens: Organ.

7.30 Stockholm: Witkowsky (pfte.).

8.30 Athlone: Pfte., Gaelic songs.

9.0 Beromünster: Two pftes.

10.20 Turin: Pianoforte.

## PLAYS

4.0 Radio-Paris: “C'est jeune.”

7.0 Eiffel Tower: “La servante sans gage.”

8.30 Radio-Paris: Three plays.

9.35 Beromünster: “The blue Meteor.”

## TALKS

8.0 Brussels 2: Rosenberg Centenary.

10.10 Brussels 1: Belgian fête at Paris Exhibition.

## LAST NEWS BULLETINS, see Monday

## DANCE MUSIC

10.15 Oslo; 10.30, Deutschlandsender, etc., Vienna; 10.35, Prague; 10.40, Brussels 2; 10.50, Hilversum (1,875 m.); 11.0, Radio-Paris; 11.5, Paris (PTT), Strasbourg; 11.10, Kalundborg; 11.15, Turin; 11.30, Budapest 1.

## MISCELLANEOUS

10.30 (a.m.) German stations: Opening of “House for German Art.”

3.30-10.0 Munich, etc.: “Tag der Deutschen Kunst.”

3.15—Records. String Quartet (Fauré). Sicilienne (Fauré).

3.45—L. Peeters reads.

4.0—Brenders Dance Band.

4.30—Iris Vanneste (Pfte.). Sonata in D (Scarlatti). Partita in B flat (Bach). Etude in E flat (Liszt-Paganini). Jeux d'eau (Ravel). Etude (Jongen).

5.0—Godwin Orchestra from the Casino, Chaudfontaine; at 5.30—Sports.

6.0—Records: Quartet in D minor, Death and the Maiden (Schubert).

6.15—Flor Peeters (Organ) from the Lemmens Institute, Malines. Excerpts, Concerto in F (Handel). Grande pièce symphonique (César Franck). 6.45—Religious Address.

7.0—Light Orchestra. Conductor: Souris. 7.30—Film Review.

8.0—“Rosenberg Cantata” (Ontrop) for the Seventh Centenary of Rosenberg Abbey, from Waasmunster. Conductor: The Composer. 8.45—“The Borinage”—Sequence.

9.0—Popular Concert from the Kursaal, Ostend. 10.30—News.

10.40—Brenders Dance Band.

11.30-12.0 m't.—Records. Suite in C (Bach). The Enchanted Lake (Liadov).

## BUCHAREST (Romania)

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

6.30-7.30 a.m.—To be announced. 8.55—Religious Programme. 12.0 noon—Time; Art and Sports Notes; Water Level. 12.10 p.m.—Romanian Folk Music—Marcu Orchestra; at 1.10—News. 2.0—For Peasants. 2.55-3.15—Romanian Folk Music. 6.0—Time; Weather.

6.2—Light Music and Dance Music of Yesterday and Today by the Corologos Jazz Band; at 6.40—Technical Letter-box. 7.30—Talk. 7.50—Light Music—Dendrin Ensemble.

8.20—Radio Salon Orchestra. Conductor: Rogalski. 9.30—News; Sports. 9.55-11.0—Song Records.

BUDAPEST (No. 1) (Hungary)  
546 kc/s (549.5 m.); 120 kW.

9.30 a.m.—News. 10.0—Protestant Service. 11.0—Roman Catholic Service.

12.30 p.m.—Military Parade from Liberty Square. 1.20—Records. 2.0—Talk. 3.0—For Farmers. 3.45—Choir. 4.30—Talk.

5.0—Hungarian Folk Songs—Tárogató Recital. 6.10—Sports.

6.45—Station Salon Orchestra, Conductor: Bertha. Overture, “Orpheus in the Underworld” (Offenbach). Waltz, Roses from the South (Strauss). Sixth Rhapsody (Liszt). Suite, “Coppélia” (Delibes). Twilight (Hubay). Egyptian Dance (Friml). Hussar's Song (Huszka).

7.15—To be announced. 8.30—Sports. 8.40—Rétikai Programme.

10.15—Opera Orchestra, Conductor: Fridl. Overture, “Der Freischütz” (Weber). Scènes alsaciennes (Massenet). Hungarian Dances (Siklós). Serenade in F (Volkmann). Rhapsody (Liszt).

11.30—Heilig Jazz Band. 12.5 a.m. (Monday)—News.

BUDAPEST (No. 2) (Hungary)  
359.5 kc/s (834.5 m.); 18 kW.

11.20 a.m.—Records. 2.20 p.m.—Melles Symphony Orchestra.

6.10—Pastushow (Pfte.). 6.50—László Haller. 8.30—Records. 9.45—Lakatos Cigány Band.

COLOGNE (Germany)  
658 kc/s (455.9 m.); 100 kW.

6.0 a.m.—See Hamburg. 8.0—Weather; Water Level. 8.5—Talk. 8.15—Light Music. Chamber Sextet.

Bourgeois Gentleman” (Molière) by Denis d'Inès. 12.30—Weather; Records. 1.0—News.

1.10—Radio Orchestra. Conductor: Gason. Romantic Suite (Bullerian). American Bolero (Brown). Preludes (Debussy): (a) Sérénade à la poupée, (b) Le petit berger, (c) Golliwog's Cake Walk. Woodland Sketches (MacDowell). 2.0-2.15—Art Notes; Records: La rosière républicaine (Grétry-Meyrowitz). 2.30—Records. 3.0—Organ Recital from Ostend Kursaal.

3.30—Light Music—Loiseau Orchestra.

4.15—Alpaerts Trio. Trio in E flat (Hummel). Romance (Schumann). Trio (de Bourguignon).

5.0—“Le Grand Prix Raspail”—Play (Zette).

5.40—Orchestra. Conductor: Souris. March (Gilbert). Noce villageoise (Godard). Moonlight on the Alster (Fétras). Gipsy Scenes (Infante). Song: Vieille maison (Casals).

## BRUSSELS (No. 2) (Belgium)

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

Programme in Flemish.

5.0-5.10 a.m. and 6.0-6.10—Homing-pigeon Notes. 6.37-9.0—Records; Gym; News; Homing-pigeon Notes. 9.0—For Gardeners. 9.5—Records.

10.0—Felleman Orchestra from the Casino, Blankenberghe. 10.45—Jean Berens (Cinema Organ).

11.15—Karl Bogaers (Songs). 11.30—Records.

12.0 noon—Radio Orchestra. Conductor: Gason. Misson (Violin). Overture, “Fanny Elssler” (Strauss). Barcarolle and Serenade (Albeniz). Malten Milk (Bemers). Violin: (a) Piece (Marchot), (b) Mazurka, Dudziarz (Wieniawski). Selection, “The Count of Luxembourg” (Lehár). A Journey to Lilliput (Engleman). Tampico (Elliot-Smith); at 12.30 p.m.—Weather.

1.0—News. 1.10-2.0—Records: Light Music.

2.15—Loiseau Orchestra.



Hermann Fassbender (Pfte.). 9.0—Summer in Songs and Poems. 9.30-10.20—Record: Opera and Classical Music.  
 10.30—See Munich.  
 12.0 noon—See Berlin. 1.0 p.m.—Greetings.  
 1.5—Station Chamber Orchestra. Conductor: Hagedstedt. Melitta Wittenbecher (Soprano). Wilhelm Leiseifer (Tenor). 2.30—Hints and Talks for Everyone. 3.0—Male Voice Choir. Conductor: Hussmann. Wilhelm Lindemann (Pfte.).  
 3.30—See Munich.  
 6.0—Ottersbach Trio, Hubert Kirsch (Baritone) and Kirst (Pfte.). 7.0—Report: The Rudolf Oetker Stakes and Jubilee Thanksgiving Stakes, from Krefeld. 7.10—“Summer Flowers”—Sequence with Songs and Music. 7.30—Sunday Review. 7.45—Sports.  
 8.0—Great German Composers. Station Orchestra and Chamber Choir. Conductor: Rudolf Schulz-Dornburg. Kläre Hansen (Soprano). Engels (Tenor). Kaldeweier (Bass). Kreuter (Violin). Busbach (Viola). Dances (Bach, Handel). Symphony in C (Beethoven). Chorus from “The Seasons” (Haydn). Sinfonie concertante (Mozart). Overture in Italian Style (Schubert). Scherzo from the Rhenish Symphony (Schumann). In stiller Nacht (Brahms). Ein Volksfest (Bruckner). Siegfried's Rhine Journey (Wagner).  
 10.0—Time; News. 10.25—Report from Düsseldorf: The Blue Ribbon of the Rhine.  
 10.40-12.0 m't.—Dance Music from Deutschlandsender.

**DEUTSCHLANDSENDER (Germany)**

191 kc/s (1,571 m.); 60 kW.  
 6.0 a.m.—See Hamburg. 8.0—Weather; Records. 8.20—At the “Rotez Ochs” in Sassenfeld. 9.0—Lutz Quartet, Fritz Kroeger (Duralophon). 10.0-10.20—Records.  
 10.30—See Munich.  
 12.0 noon—See Berlin. 1.0 p.m.—Greetings.  
 1.10—Music from Cologne. 2.0—“The Bremen Stadtmusikanten”—Fairy Play (Erika Geldern-Salzman). 2.30—Songs by Danish Students (Recorded). 3.0—Records.  
 3.30-6.0—See Munich.  
 6.0—Beautiful Melodies by the Roos Band; at 6.50—Humorous Story. 7.30—Sports.  
 8.0—Concert from the Saalbau, Friedrichshain. Railway-Workers' Band and Choir (Four Hundred Singers). Ruth Gehrs (Songs). Paul Schneider (Pfte.).  
 8.20—Song of the Danube—Musical Picture Book (Fortner-Knauer). Station Orchestra and Chamber Choir, Conductor: Knauer. Rosl Seegers (Soprano). Karlheinz Graumann (Tenor). 10.0—News.  
 10.20—See Königsberg.  
 10.30 p.m.-12.55 a.m. (Monday)—Dance Music. Bund Barfd. Hilde Mottau (Songs). Records of Mile Sagawe (Cinema Organ); at 10.45—Weather.

**FRANKFURT (Germany)**  
 1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg, and Trier, 1,195 kc/s (251 m.).  
 6.0 a.m.—See Hamburg. 8.0—Water Level; Weather. 8.10—Gym. 8.30—For Peasants. 8.45—Fritz Heckmann (Organ). 9.0—Service. 9.45—Records. 10.0—Pfte. Concerto in A (Liszt) by Claudio Arrau (Pfte.) and the Station Orchestra, Conductor: Raabe. 10.20—To be announced.  
 10.30—See Munich.  
 12.0 noon—See Berlin. 2.0 p.m.—“Seppel ist misstrauisch!”—Play for

Children (Reymann). 2.30—Request Records. 3.30—Legends, Fairy Tales, Ballads and Songs.  
 4.0 (from Cassel)—Bad Wildungen Orchestra, Conductor: Dörrie. Overture, “Béatrice et Bénédic” (Berlioz). Suite No. 1 from “Carmen” (Bizet). Salut d'amour (Elgar). Der Eremit (Schmalstich). Selection, “Hänsel and Gretel” (Humperdinck). Hungarian Dances (Brahms). Overture, “The Gipsy Baron” (Joh. Strauss). Luna-Walzer (Lincke). Wiener Marschweisen (Kliment). Selection, “The Merry Widow” (Lehár). In the interval Reports: (a) Bad Ems Regatta, (b) German Tourists Day in Mayen.  
 6.0—A Modern Fairy Tale (Irma Sitte), with Music by Fritz Kullmann, Station Orchestra and Hauck Band.  
 7.40—Sports; Davis Cup Reports.  
 8.0—Station Orchestra, Conductor: Caspar. Overture, “Grigri” (Lincke). Liebeslieder - Walzer (Strauss). Polka (Dellinger). Selection, “Die Fledermaus” (Strauss). Polka - Mazurka, Frauenherz (Strauss). Waltz, Verschmähte Liebe (Lincke). Professorenmarsch (Zeller).  
 8.50—Talk on the following Programme.  
 9.0—See Rome. In the intervals, News and Sports.  
 11.30—Dance Music from Deutschlandsender.

12.0 m't.-1.0 a.m. (Monday)—Mozart, Grieg and Debussy Concert (Records). Unterhaltungsmusik (Mozart) by the Berlin Philharmonic, Conductor: Schmidt - Isserstedt. Suite, Aus Holbergs Zeit (Grieg) by the Station String Orchestra, Conductor: Rosbaud. Two Pieces (Debussy) by the Berlin Philharmonic: (a) Nuages, (b) Fêtes. Scottish March (Debussy) by the Station Orchestra, Conductor: Rosbaud.

**HAMBURG (Germany)**  
 904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hannover, Magdeburg and Stettin, 1,330 kc/s (225.6 m.).  
 6.0 a.m.—Harbour Concert. 8.0—News. 8.15—Talk. 8.25—Records; at 8.35-8.45—Gym. 9.0—Stettin Concert Orchestra, Conductor: Quast.  
 10.30—See Munich. 12.0 noon—Military Band from Bad Segeberg. Conductor: Zastrow. 12.50 p.m.—Weather.  
 1.0—Music from Berlin. 2.0—Play and Stories in Dialect.  
 3.0—Heinemann Band. In the intervals, Reports: Hamburg International Regatta.  
 4.30—German Operetta and Light Music from Saarbrücken.  
 6.0—“De erste Gast”—One-Act Dialect Play (Behnken).  
 6.45—Records. Oboe Quartet in F (Mozart). Turkish March (Mozart). Symphony in G (Haydn).  
 7.30—Sports. 7.55—Weather.  
 8.0—Waltzes and Marches. Station Orchestra, Conductor: Gebhardt. Station Dance Band, Conductor: Hoffmann. Trumpeter Corps. 10.0—News.  
 10.30-12.0 m't.—See Deutschlandsender.

**HILVERSUM (1,875 m.) (Holland)**  
 160 kc/s; 10 kW until 8.40 p.m.; 150 kW. from 8.40 p.m.  
 8.35-9.40 a.m.—VARA Programme. 8.35—Records; News; Talk. 9.10—Records; Talk.  
 9.40-11.40—VPRO Programme. 9.40—For Children. 10.10—Service.  
 11.40 a.m.-4.40 p.m.—AVRO Programme. 11.40—Organ Recital by C. M. Vissers from Willemsstad Church. 11.50—Film Review.

12.15—AVRO Orchestra, Conductor: van Raalte. March in D (Mendelssohn). Invitation to the Waltz (Weber-Berlioz). Minuet (Bossi). Ballet Music (Moszkowski). Waltz Caprice (Saint-Saëns). Two Hungarian Dances (Brahms). Valse triste (Sibelius). Norwegian Rhapsody in C (Svendsen).  
 1.20—Pierre Palla (Organ). 1.40—Weekly Book Talk. 2.10—Mixed Choir. 2.30—Records.  
 2.40—Symphony Concert from the Kurhaus, Scheveningen. The Hague Orchestra. Conductor: Ignaz Neumark. Hans Schouwman (Pfte.).



Gigli, who takes the part of Nemorino in “The Love Philtre” at Rome at 9 p.m. to-day, and at Turin on Tuesday

Jacqueline Roussel (Cello). Overture, “Iphigenia in Aulis” (Gluck). Serenade for Strings (Haydn). Cello Concerto in B flat (Boccherini). Pfte. Piece (Liszt). Entry of the Gods into Valhalla, “The Rhinegold” (Wagner).  
 4.10—Report: A Water Polo Match.  
 4.40-7.40—VARA Programme. 4.40—Light Music by the “Fantasia.” Conductor: Walis. 5.40—Sports. 6.0—Records.  
 6.40—VARA Theatre Orchestra, Conductor: de Groot; Jong (Pfte.); v. Dongen (Songs).  
 7.40 till Close—AVRO Programme.  
 7.40—News. 7.55—Kovacs Lajos Orchestra. Records in the intervals. 8.55—Topical.  
 9.10—Symphony Concert from the Kurhaus, Scheveningen. The Hague Orchestra. Conductor: Schuricht. Oda Slobodskaja (Songs). From the Fields and Groves of Bohemia (Smetana). Tatiana's Aria, “Eugene Onegin” (Tchaikovsky). Cavatina, “Russlan and Ludmilla” (Glinka). Italian Caprice (Tchaikovsky).  
 9.55—A Play. 10.30—Records. 10.40—News.  
 10.50-11.40—AVRO Dance Band.

**HILVERSUM (301.5 m.) (Holland)**  
 995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m.  
 8.10 a.m.—KRO Religious Programme.  
 9.10-11.55—NCRV Programme. 9.10—Sacred Music on Records. 9.30—Service; Sacred Music on Records. 11.25—Hoeven (Organ).  
 11.55 a.m.-4.40 p.m.—KRO Programme.  
 11.55—KRO Orchestra, Conductor: Reinards; at 12.40 p.m.—Talk. 1.40—Religious Instruction. 2.10—Records. 3.10—KRO Orchestra, Conductor: Reinards. Mlle. N. Verkerst (Soprano). 4.0—Records. 4.10—For Invalids.  
 4.45-7.25—NCRV Programme. 4.45—Records; Sacred Music. 5.10—Service; Sacred Music on Records.

**SUNDAY (July 18)**

6.55—Huizenga (Organ).  
 7.25 till Close Down—KRO Programme. 7.25—Records. 7.30—Religious Address. 7.50—Press Review. 8.5—KRO Melodists, Conductor: Lustenhöwer, Klein (Songs). 8.40—Records. 8.50—Poems. 9.0—Talk on the following Transmission.  
 9.10—Recording of the Missa solennis in B flat (Bruckner), from the Abbey of St. Florian, Upper Austria. 10.10—Press Review.  
 10.20-10.40—Choral Epilogue.

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

8.0 a.m.—Gym. 10.0—Service from Eliaskirken. 11.28—Weather. 11.40—News.

12.0 noon—Radio Orchestra. Conductor: Hye-Knudsen. Overture, “The Black Domino” (Auber). Andante sostenuto in C minor (Brahms). Six Ukrainian Pictures (Akimenko). Die Werber (Lanner). Piedmontese Dance (Sinigaglia). Pieces (Rubinstein): (a) Torch Dance, “Feramors,” (b) Romance, (c) Toréador et Andalouse.

1.15 p.m.—Annual Meeting of the Danish Temperance Society from Roskilde. Addresses, Danish Music and Community Singing. 2.0—Service from Christiansborg Castle Church. 3.20—Opening of Esbjerg Airport.

4.0—Eighth Municipal Concert from the Faelled Park. Wind Band. Conductor: Hye-Knudsen. Entry of the Guests, “Tannhäuser” (Wagner). Carnival romain (Berlioz). Dance of the Hours, “La Gioconda” (Ponchielli). Ballet, “Sylvia” (Delibes). Moment musical and Military March (Schubert).

4.50—Commentary on the International Confectioners Regatta.

5.10—Wind Band (contd.). Finnish Music. Potpourri of Finnish Songs and Dances (Swanson). Finlandia (Sibelius). March. 6.0—Reading. 6.20—Talk: Japanese Customs and Thought. 6.50—Weather. 7.0—News. 7.30—Talk.

8.0—Vivo Choir. Conductor: Christensen. 8.25—Reading. 8.55—Records.

9.0—Folk Dances by Scandinavian Youth, from Aalborg. 10.0—News.

10.15—Radio Orchestra. Conductor: Grondahl. Esther Vagning (Pfte.). Overture, “The Seraglio” (Mozart). Concert Rondo in D for Pfte. and Orchestra (Mozart). Ballet, “Orpheus and Eurydice” (Gluck). Excerpts, “L'Arlesienne” (Bizet). Danse sacre et profane for Pfte. and Strings (Debussy). Overture, “Phèdre” (Massenet). 11.10 p.m.-12.30 a.m. (Monday)—Peteresen Dance Band; at 12.0 m't.—Chines,

**KÖNIGSBERG (Heilsberg) (Germany)**

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).

6.0 a.m.—Station Orchestra. Conductor: Wilcken, from Georgenswalde. 8.0—Play (Haas). 8.30—Records. 9.15—Protestant Service. 10.0-10.20—Weather; Programme Announcements.

10.30—See Munich.

12.0 noon—See Berlin. 2.0 p.m.—Chess.

2.30—“Song of Summer”—Sequence (S. O. Wagner). Children's Choir. Conductor: Ruth Grunewald. 3.10—Talk: Greece.

3.30—See Munich. 6.0—Sketches and Ballads. 6.40—To-day's Sound Review—Erich Börschel and his



## SUNDAY (July 18)

Soloists; Peter Igelhoff, Hans Hellhoff and Peter Arco. 7.40—Sports.  
8.0—Concert for the German Art Congress. Station Orchestra. Conductor: Mayer. Grete Schöberl (Pfte.). Suite in D (Bach). Pfte. Concerto in F (Beethoven). Third Symphony (Bruckner). 10.0—News.  
10.20—Reports: International Race Week in Zoppot and Rauschen.  
10.40-12.0 m't.—Dance Music from Deutschlandsender.

## LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).  
6.0 a.m.—See Hamburg. 8.0—Högner (Organ). 8.30—Dance Records. 9.0 (from Dresden)—To be announced. 9.45—Records: Dances of the Nations.  
10.30—See Munich.  
12.0 noon—See Berlin. 2.0 p.m.—Weather. 2.5—Records: Johann Strauss Music. 3.0—A Story.  
3.20—Songs for the Twelfth German Choral Festival in Breslau. Moritz Hauptmann Choir. Conductor: Seidel. Die beste Zeit im Jahr (arr. Heinrichs). Feinslieb, du hast mich gefangen (Hassler). All mein Gedanken (arr. Hensel). Viel schöner Blümlein (Schein). Viel Freuden mit sich bringet (arr. Schneider). Es geht wohl zu der Sommerszeit (arr. Heinrichs). Soldatenliebe (arr. Miessner). Kein Feuer, keine Kohle (arr. Kurt Thomas). Flieg, her, flieg hin (arr. Schneider). Unser Hans hat Hosen an (Stieber). Ein Blümlein auserlesen (arr. Pfuscher). Song (Morley).

4.0—See Stuttgart.

6.0—Variety Concert. Gerhard Burgert (Pfte.). Walter Praetorius (Tenor). Fred Dömpke (Bandonion). Willy Schrepper (Violin). Karl Sandner (Guitar).  
7.0 (from Dresden)—"Summer along the Elbe"—Sequence (Reimesch). Lehmann and Paris (Speakers). Kurt Rieger (Baritone) and the Dresden Station Orchestra. Conductor: Hilmar Weber.

8.0—Station Orchestra. Conductor: Blumer. Philipp Göpelt (Baritone), Zithers, etc. March, Dem Licht entgegen (Holzner). Suite, Wiesenleben (Jäger). Quartet for Four Zithers (Kollmanek). Songs: (a) Keine Sorg' um den Weg (Raff), (b) Wos i hab' (Bohm). Waltz, Wo die Prien rauscht (Hanns Löhr). Violin and Pfte.: Gipsy Waltz (Caludi). Slav Dance (Dvorák). Songs (Beethoven): (a) Mit Mädchen sich vertragen, (b) Prüfung des Küssens. Sonata in D (Kollmanek). Tarentella (Fischer). Waltz, Deutscher Frühling (Ohlsen). Cello and Pfte.: Impression (Caludi). Selection, "Anchen von Tharau" (Strecker). 10.0—News.  
10.30-12.0 m't.—See Deutschlandsender.

## LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.45 a.m.  
8.0 p.m.—See Paris (PTT). 8.15—Sports.  
8.30—Station Orchestra. Conductor: Soret. Rucart and Delaunoy (Songs). Overture, "Zampa" (Hérold). Mai (Hahn). Excerpts, "Thais" (Massenet). Fresques (Gaubert). Songs. Divertissement (Lalo). Excerpts, "La Vivandière" (Godard). Waltz (Schubert). Songs. Regrets de Tahiti (Delmas). Waltz,

La rose bleue (Aubry). Sérénade pathétique (Volpatti jr.). Tendresse (Szulc). Menuet des Charmes (Dyck). March, Wien bleibt Wien (Schrammel). 10.30—News. 11.0—Weather.

## MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW.  
11.30 a.m.—Announcements; Bible Reading. 11.55—Records. 12.10 p.m.—Italian Music by the Riva S. Vitale Duo. 12.30—News. 12.40-1.30—Records.  
6.0—Dafne Salati (Pfte.). 6.30—Medical Talk. 6.45—Band Records. 7.0—Sports. 7.20—Folk Band. 7.45—News.  
7.55—"The Generalissimo"—Play in One Act (Molnar).  
9.0-11.30 (approx.)—See Rome. In the interval, Reading; Sports; Records.

## MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.  
2.0 p.m.—Swedish Programme. 2.45—Music. 3.15—For Children. 4.0—News. 4.15—Music. 4.30—Literary Programme. 5.30—Programme from Kiev. 7.0—Concert. 9.0—For Germany. 9.55—Kremlin Chimes. 10.5—English Talk: Leningrad Today and Twenty Years Ago—The Arrest of Lenin in 1917. 11.0—For Germany. 12.0 m't.—1.0 a.m. (Monday)—For Spain.

## MUNICH (Germany)

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).  
Day of German Art.  
6.0 a.m.—See Hamburg. 8.0—Re-



Exclusive "World-Radio" Picture  
Mademoiselle Janine Crispin,  
who plays a principal part in "La  
Servante sans gage" at Eiffel  
Tower (7 p.m.)

records. 8.40—Service. 9.15—Talk: National Memorials. 9.20—Wind Band. 9.50—"Art is Worship"—Sequence (Wackenroder); Music by the Walter Quartet.

10.30—Inauguration of the House of German Art and Opening of the Great German Art Exhibition.

12.0 noon—Augsburg Chamber Orchestra, Conductor: Herre.

1.5 p.m.—See Cologne.

2.0—"Punch as Portrait Painter"—Play (Pocchi-Stahl), with Music.

3.0—"Von der Liebe"—Song Cycle (Sieg). Station Choir, Conductor: Zengerle, Annemarie Bischof (Soprano), Valentin Härtl (Violin), Jelena Reichl-Pacic (Cello) and Schmidmeier (Pfte.).

3.30-6.0—Two Thousand Years of German Culture—Report of the Festival Procession.

6.0—See Cologne. 7.0—German Verse and German Songs.

8.0-10.0—"Fest nacht der Künstler."

8.0—Reports of the Pageants from the House of German Art, and from the Exhibition Park and the Kleinhesselöher-See.

8.50—A Baroque Summer Festival—Commentary from the Kleinhesselöher-See. 9.40—Open-Air Dancing and

Fireworks in the Public Squares and Gardens. 10.0—Time; News.

10.30 p.m.—2.0 a.m. (Monday)—Dance Music by the Schwarzfischer Band and the Station Schrammel Ensemble. In the intervals, Reports on the Open-Air Dancing.

## OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 722 kc/s (415.4 m.); Hamar, 519 kc/s (578 m.); Notodden, 1,357 kc/s (221.1 m.); Porsgrund, 850 kc/s (352.9 m.); Rjukan, 1,348 kc/s (222.6 m.); and Trondelag 629 kc/s (476.9 m.).

10.0 a.m.—News.  
10.5—Records. La Campanella (Paganini-Primose). Viola Concerto in B minor (Handel-Casadesu).

10.25—Service. 12.45 p.m.—News.

4.0—Norwegian Folk Music by Ingvar and Haanes (Violins) and Rövde (Songs). 5.0—Light Music. 6.0—Talk.

6.30—Station Orchestra. Conductor: Fjeldstad. March (Orvan). Waltz (Waldteufel). Potpourri (Schreiner). Melody (Rubinstein). Suite (Hurum). Overture, "Le Maschere" (Maschagni). Solitude (Stang). Abendlied (Schumann). Selection, "Tales of Hoffman" (Offenbach). Spanish Caprice (Rimsky-Korsakov); at 7.10—News.

8.20—Report: The Churches of Bergen.

9.0—Bergh (Violin) and Naalsund (Pfte.). Larghetto (Dvorák). Mazurka (Wieniawski). Adagio quasi andante (Monrad-Johansen). Polichinelle (Kreisler). Air and Trepak (Sasonoff). Pfte. Sonata in D minor (MacDowell).

9.40—News. 10.10—Sports.

10.15-11.0—Dance Records.

## PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 7.30 a.m.

5.0 p.m.—Television.

7.0—"La Servante sans gage"—Three-Act Play (Yole), with Aldebert, Davy, Varennes, Juliette Verneuil, Janine Crispin, Henriette Moret, etc.

8.30—Popular Concert, with Neils (Cello), Germaine Martinelli (Songs). Overture, "Le Roi d'Ys" (Lalo). Cello Concerto (Lalo). Hungaria (Liszt). Songs: Jeux rustiques (Beydts). Le fou de la dame (Delannoy).

## PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW.

7.52 a.m.—Records. 8.2—News. 8.26

—Diatetics. 8.36—Folk Song Records.

8.50—Humorous Sketches (Records).

9.1—News. 9.25—Pfte. Records.

9.40—Records of Max Roge and

Juliane Meyrande. 10.0—For Children.

10.30—Beethoven Concert. 11.10

—Records of the Willie Lewis Jazz

Band.

11.30—Opera Records. Excerpts,

"Manon" (Massenet) and "The

Daughter of the Regiment" (Doni-

zetti). 11.45—Records of Felix

Paquet (Songs). 12.5 p.m.—For

Children. 12.15—"Soldiers"—Re-

records. 12.30—Records of Ambrose

and Charlie Kunz Dance Bands.

12.45—Nita Salva and the Gottlieb

Orchestra. 1.0—Amateur Detective

Competition. 1.10—Vocal

Quintet with Raymond Souplex and

Jane Sourza.

1.30—Records. Excerpts, "Carmen"

(Bizet), "Aida" (Verdi) and

"Lakmé" (Delibes).

1.50-2.0—Talk: Haydn.

6.0—Variety Records. 7.0—News.

7.5—Sports. 7.20—Amusements. 7.25

—"Russia"—Sequence. 7.40—Re-

port: The Cycle Tour of France. 7.55

—Les Frères Jacasse. 8.0—News. 8.5

—"La bonne histoire." 8.20—Lily Pons Records. 8.30—Driggs Orchestra. 9.0—News. 9.10—Amateurs' Programme; at 9.55—News. 10.30-11.30—Variety Records.

## PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW.

6.50 a.m.—Weather. 7.0—News.

7.30—Gym. 7.45—Talk. 8.0—News.

9.0—For Farmers. 9.17—Sports.

9.30—Press Review. 9.45—For Young

People. 10.0—Locatelli Orchestra,

Lycette Guilbert (Songs).

12.0 noon—Light Music and Dance

Music—Derveaux Orchestra; at 12.30

p.m.—Report: The Cycle Tour of

France; and at 12.45—News. 2.0—

Records: Music of 1900. 2.30—"Le

manteau de Vison"—One-Act Play

(d'Herville-Armory). 3.0—Bayle and

Simonot (Songs). 3.30—Light Music

from Vichy Casino. 4.30—"La Fête

de l'Air"—Report from Villacoublay.

5.30—Dramatic Programme. Part I:

"La Consigne est de Ronfler"—One-

Act Farce (Grange-Lambert-Thiboust).

Part II: "Lapointe et Ropiteau"—

Sketch (Duhamel).

6.30—Records: Light Music. 7.0—

News.

8.0—Report: The Cycle Tour of

France. 8.15—Records: Perfumes.

8.30—Variety Programme. Part I:

Ray Ventura Orchestra. Part II:

"Ce bon Monsieur Nadaud"—

Sketch (Cleroucq). 10.30—News.

10.45—Records: Fauré Songs. 11.0

—Weather.

11.5-1.0 a.m. (Monday)—Dance Music

from Paris (Radio-Paris).

## PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW.

Time Signals at 7.15 a.m., 8.30 p.m.

and 10.45 p.m.

6.50 a.m.—Records; at 7.0—Gym.

7.30—News. 8.0—Records: Waltzes

and Songs. 9.0—Opera Records. 10.0

—Records: Light Music.

11.30—Alexandre Cellier (Organ).

Two Preludes (Dallier). Scherzo

from the Second Symphony (Vierne).

Choral Paraphrase on Psalm No. 77

(Cellier). Lauda Sion (Widor).

12.0 noon—Roman Catholic Address

by the Rev. Fr. Parvillez. 12.20 p.m.

—Records: Sacred Music.

12.30—Concert by the "Cantorica"

from the Sainte-Chapelle. Con-

ductor: Jules Meunier. Mass

(Certon). Motets (Bernier and

Antheaume).

1.15—Records: Classical Dances. 1.30

—News. 1.45—Tinah Sorel (Songs).

2.0—For Young People.

3.0—Assunta Bendio (Mandoline).

3.15—Léon Raiter and his Orchestra.

3.45—Denise Cayrol (Songs).

4.0—"C'est Jeune"—Play in Three

Acts (Ruth).

5.0—Andolfi Orchestra. Overture,

"The Barber of Seville" (Rossini).

Serenade (Albéniz). Suite berga-

masque (Debussy). Selection, "The

Merry Widow" (Lehár). Extrême-

orient (de la Presle). Symphony in

D (Haydn). Wine, Woman and Song

(Strauss). Andalusian Romance

(Sarasate). Selection, "La Bohème"

(Puccini). Narcissus (Nevin). Zin-

garesque (Curzon). Selection, "Le

roi s'amuse" (Delibes). Napoli

(d'Ambrosio). Moto perpetuo

(Lotter). Barcarolle (Tchaikovsky).

Wedding March (Mendelssohn).

7.0—Radio-Paris Guignol by Bilboquet

and Troupe: "Guignol parrain"

(Leguey). In the interval, Polichinelle.

7.30—"Old Houses"—Sketches

(Davenay): (a) Berlioz' House, 22, rue

du Mont-Cenis, (b) Gérard de Nerval's

House, 13, rue Girardon.

8.0—Political Review.

8.15—Jean Sorbier (Tenor).



**8.30**—Dramatic Programme. "Sur le quai d'une gare" — Dialogue (Chabannes). "Des gifles dans l'air" — Sketch (Gervaisé). "La clameur" — Play (Douglas d'Estrac).  
**10.30**—Records: Old French Songs.  
**10.45**—News.  
**11.0 p.m.—1.0 a.m. (Monday)**—Bouillon Dance Band.

**PRAGUE (Czechoslovakia)**

638 kc/s (470.2 m.); 120 kW.  
**6.30 a.m.**—News; Records.  
**7.0**—Karlsbad Municipal Orchestra.  
**8.20**—Police Messages. **8.30**—Records. **8.40**—Hymn; Reading. **8.55**—Record. **9.0**—For Workers. **9.30**—Prohas Anniversary Programme. **9.55**—Quartet. **10.25**—Literary Programme from Kosice.  
**10.55**—Books.  
**11.0**—Teplice-Sanov Spa Orchestra. **12.0 noon**—Chimes. **12.5 p.m.**—Record. **12.10**—Press Review. **12.20**—Variety Concert from Moravska-Ostrava.  
**1.45**—For Farmers. **2.0**—For German Farmers. **2.15-2.25**—For German Workers.  
**3.30**—Review. **4.0**—Miners' Band from Strazkovice. **5.0**—Talk.  
**5.15**—FOC Orchestra. Conductor: Smetacek. Sroubek (Violin) (Recorded). Concert Polonaise in D (Fibich). Excerpt, "The Devil and Kate" (Dvořák). Mazurek (Dvořák).  
**5.35**—German Transmission: Folk Play (Anzengruber). **6.50**—News (German). **6.55**—Record.  
**7.0**—News. **7.5**—Band Records. **7.25**—Talk. **7.40**—Orchestra from Kosice. **8.40**—Sketch (Courteline).  
**9.0**—See Brno.  
**9.55**—Record. **10.0**—News. **10.25**—Sports. **10.30**—News (German).  
**10.35-11.30**—Osten Jazz Band.

**RADIO-NORMANDIE (France)**

1,113 kc/s (269.5 m.); 15 kW.  
**6.45 a.m.**—Military Band. **7.0**—News. **7.45**—Records. **8.0**—Light Music. **8.30**—English Sacred Music. **8.45**—Records. **9.0**—Light Music. **9.30**—Alfredo Campoli and his Orchestra. **9.45**—Records. **10.0**—Light Music. **10.15**—Carson Robinson and his Pioneers. **10.30**—Light Music. **10.45**—Records. **11.0**—Light Music. **11.15**—Military Band Music. **11.30**—Jack Hylton and his Band. **11.45**—Variety. **12.20 p.m.**—Roman Catholic Address. **12.35**—News.  
**1.0**—Concert. **2.0**—Records: Billy Cotton and his Band. **2.30**—Light Music. **2.45**—Records. **3.0**—Light Music. **3.30**—Variety. **3.45**—Records. **4.0**—Light Music. **4.30**—Records. **5.0**—Light Music. **5.15**—Records. **5.30**—Romantic Melodies. **5.45**—Records. **6.0**—Music-Hall Memories. **6.15**—Alfredo Campoli and his Orchestra. **6.30**—Music-Hall. **7.0**—Records. **7.15**—Voices of the Stars—Songs. **7.30**—Sports Notes. **7.40**—News.  
**8.0**—Concert. **9.30**—Humorous Items. **10.0**—Talk: The Paris Exhibition. **10.15**—Light Music.  
**10.30**—Variety. **11.0**—Light Music. **11.15**—Louis Levy and his Gaumont British Symphony Orchestra. **11.30**—Records. **12.0 m't.**—Midnight Melodies.  
**12.30-1.0 a.m. (Monday)**—Dance Music.

**REYKJAVIK (Iceland)**

208 kc/s (1,442 m.); 16 kW.  
**11.45 a.m.**—Haydn-Mozart Concert. The Clock Symphony (Haydn). Violin Concerto in D (Mozart). **12.40 p.m.**—Weather (Icelandic; English, German).  
**1.0 p.m.**—Service from the Cathedral; **2.0**—Music. **5.15**—Light Classical Music. **9.10**—Weather (Icelandic, German, English). **9.20**—Light Classi-

cal Music). **9.55**—Announcements. **10.0**—Time; News. **10.30**—Talk. **10.55**—Arias. **11.15**—Recital. **11.40 p.m.—2.0 a.m. (Monday)**—Dance Music.

**ROME (Italy)**

713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.).  
**8.30-8.50 a.m.**—News. **10.0**—Rural Programme.  
**11.0**—See Turin. **12.0 noon-12.15 p.m.**—Bible Reading.



Photo: Ö.V.W.  
 The Abbey of St. Florian, from which Vienna broadcasts a Bruckner Festival at 10 a.m.

**12.30-2.15**—See Turin. **2.20-3.0**—News; Revue. **5.0**—Sports.  
**5.15**—Variety Concert. Conductor: Mancini. In the intervals, Sports.  
**6.15 (approx.)**—Report: The Naples Hundred Thousand Lire Prize from the Agnano Hippodrome. **7.30**—Sports; Music. **8.10**—News. **8.30**—Talk: Aviation.  
**9.0-11.30 (approx.)**—"L'elisir d'amore" (Donizetti). Conductor: Berrettoni. Chorus-Master: Constantini. Cast: Beniamino Gigli, Lina Pagliughi, Afro Poli, Umberto Di Lelio, Maria Huder. In the intervals, Film Review; News (Italian, Danish).

**SOTTENS (Switzerland)**

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).  
**9.40 a.m.**—Chimes; Protestant Service. **11.0**—Mozart Records. **12.0 noon**—Report: Kandersteg. **12.30 p.m.**—News. **12.40**—Records: Light Music. **1.45**—Chopin Records of Arthur Rubinstein. **6.0**—Roman Catholic Address.  
**6.30**—Louis Vierne Recital by R. d'Alessandro (Organ). Hymne au soleil. Feux follets. Matines. Communion. Stèle pour un enfant défunt.  
**7.0**—Radio Films. **7.45**—News. **8.0**—Sports.

**8.20**—Classical Records. Songs (Fauré): by Panzera (Baritone): (a) Soir, (b) Nocturne. Two Songs (Sibelius) by Anderson. Prokofiev plays his own Pfte. Music: (a) Visions fugitives, (b) Suggestion diabolique. Two Pieces (Szymanowski) by Menuhin (Violin) and Gazelle (Pfte.): (a) Nocturne, (b) Tarantella.  
**8.50**—Talk on the following Programme.  
**9.0-11.30 (approx.)**—See Rome.

**STOCKHOLM (Sweden)**

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 Boden, 392 kc/s (765 m.).  
**9.30 a.m.**—For Farmers.  
**10.0**—Records. Symphony in E flat (Mozart) by the BBC Symphony Orchestra conducted by Bruno Walter. Cello Concerto in D (Haydn)—Feuermann (Cello); Conductor: Malcolm Sargent.  
**11.0**—Service from Engelbrekt Church. **12.40 p.m.**—News.  
**3.0 (from Göteborg)**—Viennese Music

by the Liseberg Orchestra. Conductor: Mayrhauser. Overture, "Morning, Noon and Night" (Suppé). Lustiges Wien (Meisel). Im Prater blühen wieder die Bäume (Stolz). Servus Wien (Dostal). Lehár Potpourri (Murzilli). Selection, "The Blue Mazurka" (Lehár).  
**4.0**—For Children. **4.30**—Records. **5.30**—Reading. **6.0**—Evensong. **7.15**—News.  
**7.30**—Witkowsky (Pfte.). Ballad in G minor (Chopin). Melody in E (Rachmaninov). Prelude in A minor (Arensky). Study in C sharp minor (Scriabin). Waltz in D and Study in C (Glazunov). **8.0**—Report.  
**8.30**—Swedish and Norwegian Music. Radio Orchestra. Guest Conductor: Hugo Kramm. Comedy Overture (Westberg). Norwegian Caprices (Kristoffersen). Lotus Land (Kleven). Turandot Suite (Atterberg). Theme and Variations (Irgens-Jensen). **9.45**—News.  
**10.0-11.0**—"Summer"—Marianne Mörner (Songs), Oluf Nielsen (Violin), Broman (Pfte.). Five Songs (Rangström). Pastorale, Lullaby and Polska (Aulin). Swedish Songs and Dances (arr. Svanfeldt). Songs (Eriksson, Broman, Alfvén, Järnefelt). In the interval, Reading (von Heidenstam).

**STRASBOURG (France)**

859 kc/s (349.2 m.); 100 kW.  
**6.50 a.m.**—Weather. **7.0**—News. **7.30**—News (German). **7.45**—Records. **8.0**—News (German). **8.15-8.30**—Gym. **9.0**—See Paris (PTT). **9.15**—Schubert Records. **10.45**—Protestant Service. **11.30**—Protestant Service (German). **12.0 noon**—See Paris (PTT). **12.30 p.m.**—Report: The Cycle Tour of France. **12.45**—Weather. **12.50**—News.  
**1.15**—Wagner Concert by the New York Philharmonic, Conductor:

**SUNDAY. (July 18)**

Toscanini (Records). Preludes, Acts I and III, "Lohengrin." Siegfried-Idyll. Siegfried's Rhine Journey. **2.0**—Sunday Review.  
**3.0-5.0**—See Paris (PTT). **5.0**—Request Records.  
**5.30**—See Paris (PTT). **6.30**—Medical Talk. **6.45**—Records. **7.0**—News. **7.30**—For Farmers. **8.0**—Report: The Cycle Tour of France. **8.15**—News (German). **8.22**—News. **8.30**—Sports.  
**8.40**—Beethoven and Brahms Concert. Strasbourg Symphony Orchestra, Conductor: Bernhardt. Evangelical Choir, Conductor: Wettling. M. le Gross (Violin), Mme. Meudt-Kieffer (Soprano), Hiibold (Tenor), Mme. Ensminger (Violin), Zahn (Viola), Wuest (Cello). Overture, "Prometheus" (Beethoven). Wiegenlied (Brahms). Sandmännchen (Brahms). Violin and Orchestra: Romance in F (Beethoven). Soprano Songs (Brahms). Tenor, Choir and Orchestra: Zigeunerlied (Brahms). Songs for Choir (Beethoven). String Trio: Serenade (Beethoven). Soprano Songs (Beethoven). Choir and Orchestra: Calm Sea and Prosperous Voyage (Beethoven).  
**10.30**—News. **11.0**—News (German). **11.5**—Dance Music.

**STUTT GART (Germany)**

574 kc/s (522.6 m.); 100 kW.  
**6.0 a.m.**—See Hamburg. **8.0**—Water Level; Weather; Gym. **8.30**—Protestant Service from Heidelberg. **9.0**—The Vienna Teachers' A-cappella Choir, Conductor: Reinhold Schmid. **9.30-10.20**—Records: Overtures.  
**10.30**—See Munich.  
**12.0 noon**—See Berlin; at 1.0 p.m.—Topical.  
**2.0**—See Frankfurt. **2.30**—Records.  
**3.0**—"In the Garden of the Palatinate Museum"—Concert from Heidelberg. Academy Madrigal Choir and a Children's Choir, Conductor: Ehrhardt. Madrigals (Hassler): (a) Fanget an, (b) Tanzen und Springen, (c) Wir lieben sehr im Herzen. Wach auf mein's Herzens Schöne (Rein). Old Folk Song, Drei Laub auf einer Linden. Weiss mir ein schönes Röselein (arr. Rein). Es steht ein Lind (arr. Piktstadt). Ei wie so töricht ist (Poppen). Es freit ein wilder Wassermann (Poppen). Lieblich hat sich gesellet. Der Gutzgach auf dem Zaune sass (Lämlin). Sag ade. Entlaubet ist der Walde (Senff).  
**4.0**—German Operetta and Light Music from Saarbrücken. Orchestras, Conductors: Jung and Kasper. Hilde Anschutz (Soprano). Luitpold Ganther (Tenor). Hanns Karolus (Baritone). Albert Bräu (Saxophone). The Four Merry Musicians.  
**6.0**—"Thomas Murner"—Play (Reinacher) Music by Kern. **7.0**—Variety Records. **7.45**—Talk: Gymnastics and Sport.  
**8.0**—See Munich.  
**8.50**—See Frankfurt.  
**9.0**—See Rome. In the intervals, News and Sports. **11.30**—Dance Records.  
**12.0 m't.—1.0 a.m. (Monday)**—See Frankfurt.  
**TOULOUSE (Radio-Toulouse) (France)**  
 913 kc/s (328.6 m.); 60 kW.  
**11.45 a.m.**—Roman Catholic Address; Sacred Music. **12.5 p.m.**—Orchestra. **12.15**—News. **12.45**—Light Music. **1.10**—"Derrière les volets"—Fantasy. **1.25**—Tangos. **1.40**—Operetta Music. **1.55**—News. **2.0-2.15**—Protestant Address.  
**6.0**—Orchestra. **6.10**—Dance Music



## SUNDAY (July 18)

6.35—Chansonnettes. 6.50—News; Sports. 7.0—Orchestra. 7.15—News. 7.45—Excerpts, "Manon" (Masse-net). 8.15—"Les Baisers"—Fantasy. 8.30—Operetta Music. Excerpts, "Florestan 1" (Heymann), "Countess Maritza" (Kálman), "A Kiss in Spring" (Kálman). 8.45—Musical Comedy Music. 9.10—"V'la le midi"—Fantasy. 9.30—Band. 9.45—Orchestra. 9.50—Paris Programme. 10.20—Argentine Orchestra. 10.35—Excerpts, "La Traviata" (Verdi). 10.50—Songs. 11.0—Orchestra. 11.15—Songs. 11.35—Light Music. 11.50—Announcements.

## TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Trieste, 1,140 kc/s (263.2 m.); Florence, 610 kc/s (491.8 m.); Bolzano, 536 kc/s (559.7 m.); and Rome (No. 3), 1,258 kc/s (238.5 m.). 8.30-8.50 a.m.—News. 10.0—Rural Programme. 11.0—Mass from the Church of the Annunciation, Florence. 12.0 noon-12.15 p.m.—Bible Reading. 12.30—Records. 1.0—News. 1.15—Variety. 1.45-2.15—Records. 5.0—Sports. 5.15—Opera Music. Conductor: Fighera. Overture, "Cosi fan tutte" (Mozart). Arias, "The Secret Marriage" (Cimarosa) and "The Italian Girl in Algiers" (Rossini). Duet, "La serva padrona" (Pergolesi). Concerto grosso (Handel). Arias, "Cosi fan tutte" (Mozart), and "La serva padrona" (Pergolesi). Duet, "The Italian Girl in Algiers"

(Rossini). Overture, "La Cenerentola" (Rossini); at 6.0 (approx.)—Sports.

6.15—See Rome. 6.45-7.0—Sports. 7.30—Sports; Light Music. 8.10-9.0—See Rome.

9.0—Naval Band, Conductor: Aghemo. 10.15—News (German).

10.20—Maria Golia (Pfte.). Theme with Variations (Martucci). Paseo nocturno (Turina). Improviso (Scuderi). La Leggerezza (Liszt). Three Pieces (Cilea). Fantasia (Chopin). 11.0—News. 11.15-11.55—Dance Music.

## VIENNA (Austria)

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.).

7.45 a.m.—Chimes; Eybner (Organ). 8.5—Motto; Time; Weather; Programme Announcements. 8.10—Gym.

8.30—Weekly Hints. 8.45—Records.

10.0—Bruckner Festival: Missa Solennis in B flat minor (Bruckner) from the Abbey of St. Florian, Upper Austria. St. Florian Choir, Vienna Symphony Orchestra, etc. 11.30 (approx.)—Franz Schütz Recital on the Bruckner Organ, St. Florian. 11.45—Time; Announcements.

12.15 p.m.—Erika Rokyta (Soprano). Songs (Haydn): (a) Gebet zu Gott, (b) Jeder meint das holde Kind. Songs (Mozart): (a) In einem Wald, (b) Unglückliche Liebe, (c) Der Zauberer, (d) An Chloë. Songs (Beethoven): (a) Wonne der Wehmut, (b) Mit einem gemalten Bande, (c) Ah perfido.

12.50—Station Band. Conductor: Sandauer Noë (Saxophone). Overture, Bagatelle (Rixner). Grand Canyon Suite (Grove). Miniature

Suite (Coates).—Rhapsody (Sandauer). Saxophone: Valse mélancolique (Kubinsky). Xylophone: Flüsternde Tasten (Schrader). Potpourri, from "Eine Frau, die weiss, was sie will" (O. Straus). An American in Paris (Gershwin).

2.5—Programme Notes. 2.20—Books. 2.45—Time; News; Announcements.

3.0—Bruckner Festival: Concert from the Marble Hall of the Abbey of St. Florian, near Linz. The St. Florian Choir and Vienna Symphony Orchestra. Conductors: Weisbach and Trittinger. Part I. Address by Dr. Vinzenz Hartl, Prior of St. Florian's, followed by Music of Anton Bruckner's Choir-boy Days in St. Florian. Part II. Second Symphony in C minor (Bruckner).

4.50—Country Music by Village Bands, etc. 5.20—Bruno Brehm reads. 5.45—Talk. 6.5—Talk with Records: Round the Sun. 6.40—Rudolf Jeremias Kreuz reads his short Stories. 7.0—Time; Sports. 7.10—Weekly Review.

7.35—"Der Schätzmeister" (Ziehrer) with the Station Orchestra and Mixed Chorus. 9.45—Records. 10.10—News.

10.30-11.30—Station Dance Band; at 10.55; Announcements.

## WARSAW (Poland)

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.); Poznan, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.).

8.0 a.m.—Time; Hymn. 8.3—News. 8.15—For Farmers.

9.0—Roman Catholic Service; Records. 11.0—Folk Ensemble. 11.57—Fanfare.

12.3 p.m.—Poznan Symphony Orchestra. Overture, "Marya" (Statkowski). Symphonic Poem, The Steppe (Noskowski). Songs (Friedman, Malinowski, Brahms, Niewiadomski). Pieces (Borodin): (a) In the Steppes of Central Asia, (b) Polovtsian Dances. 1.0—Cultural Review.

1.10—Concert—Rynas Salon Ensemble, Szretter (Songs), Zynski (Pfte.), Jasinski and Iwanyna (Duets). Overture, "The Lovely Galatea" (Suppé). Vocal Duets (Horowicz, Szpilman). Waltz "Pan Twardowski" (Rozycki). Songs: (a) Alter Refrain (Kreisler), (b) Berceuse (Schubert-Melichar). Brise de mer (Leoncavallo). Pfte. Pieces (Zynski). Operetta Potpourri (Fétras). Vocal Duets (d'Orange, Lewandowski). Serenade (Carosio). Film Music (arr. Zynski). Songs, "Bezauberndes Fräulein" (Benatzky), "The Vagabond King" (Friml). Tango (Murilli). Pizzicati (Meyer-Helmund).

2.40—For Children. 3.0—Rural Programme: Markets; Sketch; Talk for Housewives.

4.0 (from Lwów)—Polish Dance Melodies by Choir. 4.30—Records of the Berlin Philharmonic.

5.15—"Déjeuner"—Sketch (Bira-beau) trans. Bukowski. 5.30—Report. 6.0—Station Orchestra and Soloists. Conductor: Gorzynski. In the interval, Reading.

8.0—Records of Erica Morini (Violin) and Horowitz (Pfte.). 8.30—Programme Notes. 8.35—Politics. 8.45—News.

9.0-11.30 (approx.)—See Rome; In the intervals, Sports and News.



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July 19 MONDAY

5 p.m. ATHLONE, 5.30—From Navan Horse Show. 5.50—Records. BERLIN, Cello Sonata (Pfitzner). 5.30—Reading. 5.45—The Berlin Radio Exhibition. BEROMUNSTER, and SOTTENS, Radio Orchestra. 5.40 — Records. BRUSSELS (1), Dance Music from Knocke Casino. BRUSSELS (2), Radio Orchestra, Records. 5.45—For Children. BUDAPEST (1), 5.30—Jazz Band. DEUTSCHLANDSENDER, BRESLAU, COLOGNE, LEIPZIG, Reading; Light Orchestral. FRANKFURT, Light Music. HAMBURG, Light Orchestral, Songs. HILVERSUM (1,875 m.), Light Music, Songs. 5.25—Melody Circle. HILVERSUM (301.5 m.), Salon Orchestra. KALUNDBORG, Reading. 5.25—Markets. 5.50—Records. KONIGSBERG, Records. LILLE, 5.45—Symphony Concert. MUNICH, Talk. 5.15—Light Orchestral. PARIS (PTT), Records. 5.15 — Poems. 5.30—Talks. PRAGUE, 5.5—FOC Orchestra. 5.40 — Cello. RADIO-PARIS, Pascal Orchestra. STOCKHOLM, 5.5—Folk Music and Verse. 5.45—Talk. STRASBOURG, Alsatian Review (German). 5.15—Pfte. (Schubert, Faure). 5.30—Talk. 5.45—See Lille. STUTTGART, Orchestra, Dance Band. VIENNA, 5.40—Baritone Arias from Contemporary Opera. 5.55—Violin. WARSAW, Dance Band. 5.50—Talk.

6 p.m. ATHLONE, Records. 6.20—Talk. 6.35—News. BERLIN, Records. BEROMUNSTER, Records. 6.30—Talk. BRESLAU, Books. 6.20—Soprano (Schubert). 6.40—Reading. 6.50—Markets. BRUSSELS (1), Talks. 6.15—Songs. 6.30—Records. 6.50—Pfte. BRUSSELS (2), For Children. 6.40—Records: "La Traviata" (Verdi). BUCHAREST and RADIO-ROMANIA, 6.3—Salon Orchestra. BUDAPEST (1), Jazz Band. 6.30—Talk. 6.55—Cigány Band. COLOGNE, Talk. 6.15—Chamber Music. DEUTSCHLANDSENDER, Folk Dances. 6.40—Report. FRANKFURT, Topical. HAMBURG, The Authors' Reputation at Hans Grimm's House, Lippoldsberg — Paul Alverdes, Hermann Claudius, Hans Grimm, etc., at the Microphone. Musical Interludes. 6.40 — Shipping. HILVERSUM (1,875 m.), Melody Circle. 6.10—Talks. HILVERSUM (301.5 m.), Salon Orchestra. 6.10—Letters; News. KALUNDBORG, Records. 6.20—Talk. KONIGSBERG, Talks. 6.35—Notes. 6.45—Peter Arco and Börschel Band. LEIPZIG, Talk. 6.20—"Rundadirekt" — Merry Roundelay (Bräutigam). 6.50 — Books. LILLE, Symphony Concert. 6.30—Concert. MOSCOW, 6.30—Provincial Programme. MUNICH, Light Orchestral. 6.45—Talk. PARIS (PTT), Pfte.; Songs; Violin. 6.45—Talk. PRAGUE, For Farmers. 6.5—Talks, Reading and News (German); at Record. RADIO-PARIS, Talks. 6.55—Paul Reboux. SOTTENS, Records; Pfte. Sonata in F (Beethoven). 6.20—Reading. 6.30—Records of Duke Ellington's Band. STOCKHOLM, Talk. 6.15—Records. STRASBOURG, See Lille. 6.30—Chamber Music. STUTTGART, Topical. VIENNA, Violin. 6.10—Topical. 6.20—Review. 6.30—For Youth. WARSAW, 6.5—Records. 6.50—Talk.

7 p.m. ATHLONE, Down at Donovans. 7.15—Act. II, "Aida" (Verdi). BERLIN, Inter-Town Contests: Brandenburg v. Frankfurt. BEROMUNSTER, Pfte. (Beethoven). 7.25—Talk. 7.45—News; Records. BRESLAU, Report. 7.30 — Records. 7.50 — Talk. BRNO, 7.10—Cabaret. BRUSSELS (1), Pfte. 7.20—Talks. 7.30—New. BRUSSELS (2), Records (contd.). 7.30—Sports. BUCHAREST and RADIO-ROMANIA, Salon Orchestra; at

7.15—Talk. BUDAPEST (1), Cigány Band. COLOGNE, Report. 7.30—Records of Erna Berger. 7.50—Talk. DEUTSCHLANDSENDER, Vocal; Instrumental. 7.45 — Topical. HAMBURG, Report. 7.30 — Records. 7.45 — Sports Talk. HILVERSUM (1,875 m.), Talk. 7.10—Children's Choir. 7.45—News. 7.55 — Opera Music. HILVERSUM (301.5 m.), Report. 7.40—News. 7.55—Wilhelmina Orchestra. KALUNDBORG, News. 7.30—Talk. KONIGSBERG, Peter Arco and Börschel Band. 7.45—Topical. LEIPZIG, Books. 7.10—KdF Festival Concert (Recorded). LILLE, News. 7.30—Talk. 7.45 —Cycle Tour of France. MOSCOW, Provincial Programme. MUNICH, Variety. OSLO, 7.30—Saxophone, Pfte. PARIS (PTT), News. 7.45 — Cycle Tour of France. POSTE PARISIEN, News. 7.25—Film. Records. 7.40—Cycle Tour of France. 7.55—Sketch. PRAGUE, News. 7.10—See Brno. RADIO-NORMANDIE, Concert.

7.40—News. RADIO-PARIS, 7.3 — Records. 7.15 — Songs, Cello. ROME, Sports; Talk (French); Light Music. 7.53—News (Foreign Languages). SOTTENS, Talk. 7.10—Reading; Talk. 7.30—Music. 7.45—News. STOCKHOLM, Records. 7.15—News. 7.30—Topical. 7.45 —Light Orchestral. STRASBOURG, News. 7.30—Economics. 7.45—Cycle Tour of France. STUTTGART and FRANKFURT, Orchestra, Peasant Band, etc. TOULOUSE, Excerpt, "Ciboulette" (Hahn). 7.15—News. 7.40—Light Music. TURIN, Music. 7.40—News (Foreign Languages). VIENNA, News. 7.10—Topical. 7.35 — Bruckner Festival from Steyr. Vienna Symphony Orchestra. Guest Conductor: Weisbach (Schubert, Bruckner). WARSAW, For Soldiers. 7.40—Talk. 7.50—Sports,

8 p.m. ATHLONE, Reading. 8.15 — Masters of Lieder—Schubert, Radio Orchestra, Tenor, Pfte. BERLIN, News. 8.10—Famous Singers of the Past—Records, with Commentary. BEROMUNSTER, 8.5—Dialect Play. 8.50—Radio Pictures of Switzerland. BORDEAUX - LAFAYETTE, Songs. 8.15—News. 8.30—"Véronique" (Messenger). BRESLAU, News. 8.10—Variety. BRNO, Cabaret. 8.10—Talk. 8.25—See Prague. BRUSSELS (1), Salon Orchestra; Duettists, Diseuse. BRUSSELS (2), Light Orchestral, Songs. BUCHAREST and RADIO-ROMANIA, Salon Orchestra. 8.25—Pfte. BUDAPEST (1), Anni Maróthi and Zoltán Várkonyi. 8.40 —

9 p.m. ATHLONE, Schubert (contd.). 9.15—Val Vouden (Entertainer). 9.30—Variety. BERLIN, Dance Band. BEROMUNSTER, Radio Pictures (contd.). BORDEAUX - LAFAYETTE, "Veronique" (contd.). BRESLAU, Variety.

Opera Orchestra (Schumann, Beethoven, Wagner). COLOGNE, News. 8.10—Weekly Review. DEUTSCHLANDSENDER, News. 8.10—Bruinier Quartet (Cassado, Mozart). EIFFEL TOWER, Television. 8.30—To be announced. FRANKFURT, See Stuttgart. 8.30 —Report. HAMBURG, News. 8.10—Mainardi. (Cello). 8.50—Records. HILVERSUM (1,875 m.), Opera Music. 8.40—VARA Orchestra. HILVERSUM (301.5 m.), Wilhelmina Orchestra; at 8.35—Talk. KALUNDBORG, Song Cycle, Dyvekes Sang (Heise). 8.20 — "Demobilisation" (Avertchenko-Weltzer). 8.35—Italian Sacred Songs and Organ Music, from Odense Cathedral. KONIGSBERG, News. 8.10—Records—Scandinavian Music. 8.45—Report. LEIPZIG, Concert (contd.). 8.10 — "Max and Moritz"—Burlesque Oratorio after Busch (Schuler) (Recorded). LILLE, Talk. 8.10 — Songs. 8.30 — Valenciennes Conservatoire Concert. MONTE CENERI, 8.10—Provin-

Principal Events SYMPHONY CONCERTS 7.35 Vienna: Bruckner, Schubert. 8.40 Budapest 1: Beethoven, No. 2, etc. 9.0 Rome: Tchaikovsky, No. 6. 9.10 Sottens: Rameau, Haydn, Beethoven. LIGHT CONCERTS 2.50 Kalundborg: Radio Orchestra. 4.0 Deutschlandsender: Light orchestral. 7.55 Hilversum (1,875 m.): Opera music. 8.0 Brussels 1, 2: Orchestral, vocal. 8.0 Warsaw: Navy band. 8.5 Sottens: Orchestra, chansons. 8.10 Breslau: Variety concert. 8.10 Leipzig: "Max und Moritz" (after Wilhelm Busch). 8.15 Athlone: Schubert programme. 9.0 Prague: Orchestra, violin. 10.0 Swiss stations: For Swiss abroad. 10.20 Kalundborg: Radio Orchestra. 10.30 Cologne, etc.: Serenade and dances. OPERETTAS 8.30 Radio-Paris: "Les cent vierges." 9.10 Poste Parisien: "La jeune fille dans le soleil." CHAMBER MUSIC 10.0 Stockholm: Kornauth, Beethoven. 10.0 Turin: Violin, pianoforte. 12.0 Stuttgart, Frankfurt: Haydn.

cial Programme. MOSCOW, Provincial Programme. MUNICH, Variety. OSLO, Talk with Music. 8.20 — Talk. 8.30—Astra Desmond (Songs). PARIS (PTT), Cycle Tour of France. 8.10—Records. 8.30—"Malbrouck s'en va t'en guerre" (Achard); Incidental Music by Auric. POSTE PARISIEN, Topical. 8.5—La bonne histoire. 8.20—Records. 8.30—Paris Programme. PRAGUE, See Brno. 8.10—Talk. 8.25—Pfte.: Dreams (Smetana). RADIO-NORMANDIE, Variety. 8.40—Music. RADIO-PARIS, Politics. 8.15—Talk. 8.30—"Les cents Vierges" (Lecocq). ROME, and TURIN, News (Foreign Languages). 8.10 — News. 8.30—Politics. SOTTENS, Cycle Tour of France. 8.5—Light Orchestral. 8.45—Songs from "Images et Chansons" (Boller). STOCKHOLM, Light Orchestral. 8.45—Talk. STRASBOURG, News (German, French). 8.15—For Farmers. 8.30—"Cities of the World"—Suite (Guyard). STUTTGART, Orchestra, Peasant Band, etc. 8.30—Report. TOULOUSE, From the Salle Pleyel, Paris. 8.45—Orchestra. VIENNA, Festival Concert (contd.). WARSAW, Navy Band. 8.45—News.

10 p.m. ATHLONE, Variety. 10.30—News. BERLIN, News. 10.20—Report. 10.50 — Music. BEROMUNSTER and SOTTENS, Review

for Swiss Nationals Abroad. 10.15 —See Monte Ceneri. BORDEAUX-LAFAYETTE, "Véronique" (contd.). 10.30—News. 10.45 — Music. BRESLAU, News. 10.20—Visit to Silesian Spas. 10.45—Music from Cologne. BRUSSELS (1), News. 10.10 —Dance Band. BRUSSELS (2), News. 10.10—Records: "The Valkyrie" (Wagner). BUCHAREST and RADIO-ROMANIA, Café Concert. 10.45 — News (French, German, Romanian). BUDAPEST (1), News. 10.20 —Records. COLOGNE and STUTTGART, News. 10.30 —Serenade and Dances. DEUTSCHLANDSENDER, Dance and Light Music. FRANKFURT, News. 10.20 —Talk. 10.35 — Music from Cologne. HAMBURG, News. 10.15—Talk. 10.30—See Cologne. HILVERSUM (1,875 m.), Songs, Mandoline, Organ. HILVERSUM (301.5 m.), Pfte. 10.40—Records. KALUNDBORG, News. 10.20—Popular Orchestral. KONIGSBERG, News. 10.20—The Conversation between Queen Luise of Prussia and Napoleon at Tilsit. 10.40 — Music from Cologne. LEIPZIG, Report. 10.30—News. 10.50 — Music from Cologne. LILLE, Concert (contd.). 10.30 —News. MONTE CENERI, See Beromünster. 10.15—A Ticino Almanac. MOSCOW, 10.5 — English Talk: Felix Dzerzhinsky. MUNICH, News. 10.15—Talk. 10.30—See Cologne. OSLO, Topical. 10.15—Xylophone Duo. PARIS (PTT), Play (contd.). 10.30 — News. 10.45 — Records. POSTE PARISIEN, 10.5 — News. 10.10—Records. PRAGUE, News. 10.20—Records. 10.40 — News (German). RADIO-NORMANDIE, Concert. RADIO - PARIS, "Les cent vierges" (contd.). 10.30 — Operetta Music. 10.45—News. ROME, Concert (contd.). 10.15 —Variety. 10.45—Dance Music. STOCKHOLM, Chamber Music (Kornauth, Beethoven). STRASBOURG, Concert (contd.). 10.30 —News. TOULOUSE, Paris Programme. 10.20—Dance Music; Chansonnets. 10.50 — Operetta Music. TURIN, Violin Sonatas (Tartini, Mozart, Brahms). VIENNA, Dance Band. 10.10—News. 10.45—Books; Notes. WARSAW, Pfte. 10.35—Records. 10.50—News.

RECITALS 3.0 Hilversum (1,875 m.): Baritone songs. 8.10 Hamburg: Enrico Mainardi ("cello). 8.40 Oslo: Astra Desmond (contralto). 9.55 Hilversum (301.5 m.): Tenor, pft. 10.0 Warsaw: Pianoforte. 11.30 Budapest 1: Hungarian folk-songs. PLAYS 8.0 Regional: "The Lunatic at Large." 8.30 Paris (PTT): "Malbrouck s'en va t'en guerre." 9.0 Turin: "Il braccialeto." LAST NEWS BULLETINS (subject to slight alterations) 7.45 Beromünster; 8.45, Warsaw; 9.40, Oslo; 9.45, Stockholm; 10.0, Brussels, German stations, Prague; 10.10, Vienna; 10.30, Athlone, Paris (PTT); 10.45, Bucharest, Radio-Paris; 11.0, Italian stations; 12.5, Budapest 1. DANCE MUSIC 5.0 Brussels 1, Warsaw; 9.0, Berlin; 9.40, Vienna; 10.10, Brussels 1, Poste Parisien; 10.25, Regional; 10.45, Rome; 11.0, Deutschlandsender; 11.10, Kalundborg; 11.15, National, Turin. MISCELLANEOUS 3.50 National: Davis Cup Commentaries.

11 p.m. BUDAPEST (1), News (German). 11.30—Pfte.: Hungarian Folk Melodies. COLOGNE and MOST GERMAN STATIONS, Light and Dance Music. DEUTSCHLANDSENDER, and BERLIN, Dance and Light Music. HILVERSUM (1,875 m.), Records. 11.10—Light Music. HILVERSUM (301.5 m.), Records; Reading. KALUNDBORG, Popular Orchestral. 11.10—Dance Band. MONTE CENERI and SWISS STATIONS, A Ticino Almanac. MOSCOW, For Hungary. RADIO-NORMANDIE, Café Concert. ROME, News. 11.15 — News (English). 11.30—Dance Music. STRASBOURG, News (German). TOULOUSE, Light Music. 11.50 —News. TURIN, News. 11.15 —Dance Music. VIENNA, Dance Band.

12 midnight BARCELONA, News (Italian, German, French, Portuguese). BUDAPEST (1), 12.5—News. KALUNDBORG, Dance Band. MOSCOW, For Spain. RADIO - NOEMANDIE, Mid-night Melodies. 12.30 — Dance Music. STUTTGART and FRANKFURT, Haydn Chamber Music from Ludwigsburg Castle (Recorded).

BRUSSELS (1), Comédie Française Records. 9.15—Salon Orchestra, Duettists. BRUSSELS (2), Light Orchestral, Records, Musette Ensemble. BUCHAREST and RADIO-ROMANIA, Pfte. 9.10—Rosl Baumann - Radulesco (Scottish Songs). 9.30—News. 9.45—Café Concert. BUDAPEST (1), Opera Orchestra (contd.). COLOGNE, Schrammel Ensemble, etc. DEUTSCHLANDSENDER, Light Orchestral. EIFFEL TOWER, To be announced. FRANKFURT, News. 9.15—See Stuttgart. HAMBURG, Records. 9.15—See Stuttgart. HILVERSUM (1,875 m.), VARA Orchestra. 9.40—News. 9.45—Songs, Mandoline, Organ. HILVERSUM (301.5 m.), Wilhelmina Orchestra. 9.40 —News. 9.55—Tenor, Pfte.

11 p.m. BUDAPEST (1), News (German). 11.30—Pfte.: Hungarian Folk Melodies. COLOGNE and MOST GERMAN STATIONS, Light and Dance Music. DEUTSCHLANDSENDER, and BERLIN, Dance and Light Music. HILVERSUM (1,875 m.), Records. 11.10—Light Music. HILVERSUM (301.5 m.), Records; Reading. KALUNDBORG, Popular Orchestral. 11.10—Dance Band. MONTE CENERI and SWISS STATIONS, A Ticino Almanac. MOSCOW, For Hungary. RADIO-NORMANDIE, Café Concert. ROME, News. 11.15 — News (English). 11.30—Dance Music. STRASBOURG, News (German). TOULOUSE, Light Music. 11.50 —News. TURIN, News. 11.15 —Dance Music. VIENNA, Dance Band.

12 midnight BARCELONA, News (Italian, German, French, Portuguese). BUDAPEST (1), 12.5—News. KALUNDBORG, Dance Band. MOSCOW, For Spain. RADIO - NOEMANDIE, Mid-night Melodies. 12.30 — Dance Music. STUTTGART and FRANKFURT, Haydn Chamber Music from Ludwigsburg Castle (Recorded).

10 p.m. ATHLONE, Variety. 10.30—News. BERLIN, News. 10.20—Report. 10.50 — Music. BEROMUNSTER and SOTTENS, Review



## MONDAY (July 19)

## NATIONAL

Time Signals (normally): Big Ben, 10.15 a.m., 5.15 p.m., 12 midnight, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m.

10.15 a.m. (D)—Service.

10.30 (D)—Weather Forecast.

10.45 (D)—Cinema Organ.

11.15 (D)—Records.

12.0 noon (D)—Oxford and Bucks Light Infantry Band.

1.0 (D)—Guy Weitz (Organ).

1.45 (D)—Records.

2.15 (D)—"The Bursledon Ship"—R. T. Gould.

2.30 (D)—Philip Levi (Pfte.).

3.0 (D)—Cinema Organ.

3.30 (D)—Records.

3.50 (D)—The Davis Cup.

4.0 (D)—Hotel Victoria Orchestra.

4.30 (D)—Records.

5.0—The Broadhurst Septet: Marion Browne (Soprano).

6.0—The First News.

6.20—"Tricks of the Trade."

6.35—BBC Midland Orchestra: Eveline Stevenson (Soprano).

7.40—Short Story.

8.0—Reminiscent programme of dance music.

8.30—William Primrose (Viola).

9.0—The Third News.

9.20—World Affairs.

9.35—Almonds and Raisins; Jewish Review.

10.5—Chamber Music: Sophie Wyss (Soprano); John Ticehurst (Harpichord); The Willoughby String Quartet.

11.15—Joc Loss and his Band.

11.30-12.0—Dance Records.

## REGIONAL

Time Signals (normally): Big Ben, 10.15 a.m., 5.15 p.m., 12 midnight, Greenwich, 10.30 a.m., 2.0, 7.0, 10.0, 11.30 p.m.

10.15-10.45 a.m. (ex. Western)—National.

10.45 (ex. Western)—BBC Northern Ireland Orchestra: Annie Duthie (Soprano).

11.45 (ex. Western)—The Walford Hyden Magyar Orchestra.

12.30 p.m. (ex. Western)—Talk.

12.45 (ex. Western)—Ballad Concert.

1.15 (ex. Western)—Frank Rea and his Orchestra.

1.45 (ex. Western)—BBC Welsh Orchestra: Carys Davies (Mezzo-Soprano).

2.30 (ex. Western)—Records.

3.0 (ex. Western)—Margate Municipal Orchestra. 3.45—Talk.

4.0 (ex. Western)—Swing Music Records.

4.30 (ex. Western)—Elsie Owen (Violin); Harry Isaacs (Pfte.).

5.0 (ex. Western)—Children's Hour.

5.0 (Western)—National.

6.0 (ex. Midland, Western)—BBC Military Band: Gladys Palmer (Contralto).

6.0 (Midland)—Theatre Orchestra.

6.40 (Midland)—Doris Watkins (Soprano).

7.0 (ex. Western)—Second News.

7.20 (ex. Western)—Regional Announcements.

7.30 (Regional, N. Ireland, Scottish)—Cinema Organ.

7.30 (Midland)—Clifford Quintet.

7.30 (Northern)—Festival of Praise at 1937 Methodist Church Conference: Stanley Jepson (Baritone).

7.30 (Welsh)—Cory Brass Quartet: Philip Evans (Baritone).

8.0 (ex. Western)—Naughton Wayne as "The Lunatic" in "The Lunatic at Large," by Lance Sieveking, with Angela Baddeley and Howard Marion-Crawford.

8.0 (Western)—Talk on Robert Blake.

8.20 (Western)—Jean Salder and his Orchestra.

9.10 (Regional, Northern, Western)—BBC Northern Orchestra.

9.10 (Midland)—Marjorie Underwood (Soprano); Reginald Morgan (Tenor); Percy Underwood (Baritone); Reginald New (Organ); Chick Fowler (Comedian).

9.10 (Welsh)—"Hail Summer" (in Welsh).

9.10 (N. Ireland)—I.O.R. Silver Band: James Newell (Baritone).

9.10 (Scottish)—Scottish Dances.

9.40 (Welsh)—"The Fascination of Brechfa"—G. Albert Stevens.

9.40 (Scottish)—Mary Grierson (Pfte.).

9.45 (N. Ireland)—"The Tyne-siders."

10.0 (ex. Western)—News Summary.

10.25 (ex. Western)—Loss Band.

11.30 (ex. Western)—Late News Summary.

11.40-12.0 (ex. Western)—Records.

Hours of Transmission in British Summer Time.

## ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW.

Dublin, etc. See Sunday.

1.30-3.0 p.m.—Records. 5.30—Commentary from the Navan Horse Show. 5.50—Scottish Gaelic Records. 6.20—Talk for Women by Bernadette Plunkett: Some Light Surprise Dishes. 6.35—Irish News Feature. 6.45—News. 7.0—Down at Donovans.

7.15—Act II, "Aida" (Verdi). 8.0—A Gaelic Poet Reads—An Filig ag Ieighneamh: Donn Piatt.

8.15—The Masters of Lieder, No. 1—Schubert—Irish Radio Orchestra. Conductor: Lieut. J. M. Doyle. Percy Bilsbury (Tenor), Mae Johnson (Pfte.). 9.15—Val Vousden (Entertainer).

9.30—Variety. 10.30—News. 11.0—National Anthem.

## BARCELONA (EAJ1)

(Spain)

795 kc/s (377.4 m.); 7.5 kW.

Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News; Records; at 11.0—Time; News. 12.0 m't.—1.0 a.m. (Tuesday)—News (Italian, German, French, Portuguese).

## BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW.

Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg. 2.0 p.m.—News. 2.15—Roosez Band. 3.15—Exchange. 3.35-4.0—Marches (Recorded). 4.30—Humorous Story (Helke).

5.0—Cello Sonata (Pfitzner). 5.30—Reading (Penzoldt). 5.45—The Berlin Radio Exhibition. 6.0—Records. 7.0—The Inter-Town Contests—Brandenburg v. Frankfurt. 8.0—News.

8.10—Famous Singers of the Past—Records of Melba, Smerich, Caruso, Scotti, etc., with Commentary by Hans Gregor.

9.0—Bund Dance Band. 10.0—News. 10.20—The German Art Congress (Munich) in Retrospect (Recorded). 10.50—Music.

11.0-12.0 m't.—See Deutschlandsender.

## BEROMÜNSTER

(Switzerland)

556 kc/s (539.6 m.); 100 kW.

Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).

6.15-6.35 a.m.—Gym. 12.0 noon—Operetta Records. 12.29 p.m.—News. 12.40-1.30—Records. 4.30—Reading. 5.0—Radio Orchestra. 5.40—Records. 6.0—Records. 6.30—Talk: "Der grossi Heselupf," a Swiss Folk Festival. 7.0—Beethoven Music by Elsy Lang (Pfte.). 7.25—Talk. 7.45—News. 7.55—Records.

8.5—"D'Hignigsprief" — Dialect Play (Reinhardt-Sieper).

8.50—Radio Pictures of "Our Homeland." 9.55—News. 10.0—Weekly Review for Swiss Abroad. 10.15-11.15—See Monte Ceneri.

## BORDEAUX-LAFAYETTE

(France)

1,077 kc/s (278.6 m.); 35 kW.

Transmits at intervals from 6.30 a.m. 6.30 p.m.—Station Orchestra. Conductor: Gayral. Marche religieuse (Saint-Saëns). Pièces brèves (Frank). Children's Corner (Debussy).

7.0—News. 7.30—Talk. 7.45—Cycle Tour of France. 8.0—Milner (Songs). 8.15—News.

8.30—"Véronique" (Messenger). 10.30—News. 10.45-11.0—Music.

## BRATISLAVA

(Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW.

Transmits at intervals from 6.0 a.m. 9.55-10.20 p.m.—See Prague. 10.20—News (Hungarian). 10.35-11.0—Records.

## BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW.

Relayed by Gleiwitz, 1,231 kc/s (243.7 m.).

Transmits at intervals from 5.0 a.m. 12.0 noon—See Leipzig. 2.0-3.0 p.m.—News; Records.

4.0—See Deutschlandsender. 6.0—Books. 6.20—Schubert Songs by Elfriede Reski-Nöldner (Soprano). 6.40—Reading. 6.50—Programmes; Markets. 7.0—The German Art Congress (Munich) in Retrospect (Recorded). 7.30—Records.

7.50—Talk: The Twelfth German Choral Festival in Breslau. 8.0—News.

8.10—"When the Roses bloom"—Variety, with the Station Dance

Band. Dramatic Troupe, etc. 10.0—News. 10.20—We visit Silesian Spas.

10.45-12.0 m't.—Music from Cologne.

## BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW.

Transmits at intervals from 6.0 a.m. 7.10 p.m.—Cabaret. 8.10—Talk. 8.25-11.0—See Prague.

## BRUSSELS (No. 1)

(Belgium)

620 kc/s (483.9 m.); 15 kW.

6.37-9.0 a.m.—Records; Gym; News.

12.0 noon—Records. 12.35 p.m.—Brenders Dance Band. 1.0—News. 1.10—Salon Orchestra. 1.30—Records. 2.0-2.3—Art Notes. 4.55—News.

5.0—Dance Music from Knocke Casino. 6.0—Talk. 6.15—Jacqueline De Kesel (Songs).

6.30—Handel and Mendelssohn Records.

6.50—Germaine Mélotte (Pfte.). Partita in B flat (Bach). Sonata in G (Scarlatti). Variations (Mozart).

7.20—Museum Notes; Science Review. 7.30—News.

8.0—Salon Orchestra; at 8.15-8.30—Nele and Moussia (Duettists). 8.45—Germaine Broka (Discuse). 9.0—Comédie-Française Records: Scenes from "The Barber of Seville" (Beaumarchais) and "Bérénice" (Racine).

9.15—Salon Orchestra; at 9.30—Nele and Moussia (Duettists). 10.0—News.

10.10-11.0—Brenders Dance Band.



Queen Luise, to whose memory Königsberg devotes a programme on the anniversary of her death (10.20 p.m.)

## BRUSSELS (No. 2)

(Belgium)

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

Programme in Flemish.

6.37-9.0 a.m.—Records; Gym; News. 12.0 noon—Records. 12.31 p.m.—Salon Orchestra and Records. 1.0—News. 1.10—Brenders Dance Band. 1.30—Records. 2.0—Shipping.

4.55—News. 5.0—Radio Orchestra and Records. 5.45—For Children. 6.30—Records: "La Traviata" (Verdi). 7.30—Sports.

8.0—Light Orchestral. Conductor: Souris. Ferari (Songs).

8.45—Italian Opera Records. Celeste Aida, "Aida" (Verdi) by Caruso. Una vergine, "La Favorita" (Donizetti). Aria, "The Barber of Seville" (Rossini) by Galli-Curci. Bella figlia dell'amore, "Rigoletto" (Verdi).

9.0—Light Orchestral. Conductor: Souris. Gilman (Flute). Records, Musette Ensemble. Overture, "Le Muletier" (Hérold). Flute: Allegretto and Waltz (Godard). Suite, Callirhoé (Chaminade). Records: Arias, "La Navarraise" and "Werther" (Massenet). Musette Ensemble Interlude. Ice-Landic Dances (Leifs). Folies Bergère (Lincke). Librado March (Joosen). 10.0—News.

10.10-11.0—Records: "The Valkyrie" (Wagner).

## BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW.

Relayed by Radio-Romania (Brasov), 160 kc/s (1,875 m.).

Transmits at intervals from 5.30 a.m. 6.3 p.m.—Radio Salon Orchestra; at 7.15—Talk. 8.25—Demetriade (Pfte.).

8.10—Rosl Baumann—Radulesco (Scottish Songs), with Pfte., Violin, and Cello. 9.30—Sports; News. 9.45—Café Concert. 10.45—News (French, German, Romanian).

## BUDAPEST (No. 1)

(Hungary)

546 kc/s (549.5 m.); 120 kW.

Transmits at intervals from 6.45 a.m. 12.5 p.m.—Military Band; at 12.30 p.m.—News. 1.40—Ferenc Fellner (Songs). 4.15—Talk. 4.45—News. 5.0—Talk. 5.30—Vécsey Jazz Band. 6.30—Talk.

6.55—Lakatos Cigány Band.

8.0—Anni Maróthi and Zoltán Várkonyi.

8.40—Opera Orchestra, Conductor: Rajter. Overture, "Manfred" (Schumann). Second Symphony (Beethoven). Prelude, "Tristan and Isolde" (Wagner).

10.0—News. 10.20—Records. 11.0—News (German). 11.30—Hungarian Folk Melodies by Margit Timkó (Pfte.). 12.5 a.m. (Tuesday)—News.

## BUDAPEST (No. 2)

(Hungary)

359.5 kc/s (834.5 m.); 18 kW.

7.30 p.m.—Talk. 8.0—Records. 8.45—News.

9.5—Farkas Cigány Band.

## COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW.

Transmits at intervals from 5.50 a.m. 12.0 noon—Concert. 1.0 p.m.—News.

1.15—Concert from Hamburg. 2.0—News.

2.15—Variety from Deutschlandsender. 3.0—For Children. 3.45—Markets.

4.0—See Deutschlandsender; at 5.0—Topical. 6.0—Talk: The Bilberry Season.

6.15—Chamber Music. 7.0—The German Art Congress (Munich) in Retrospect (Recorded). 7.30—Records of Erna Berger (Soprano).

7.50—See Breslau. 8.0—News. 8.10—Weekly Review.

9.0—Schrammel Ensemble, Cologne Pfte. Duo, etc. 10.0—News.

10.30-12.0 m't.—Serenade and Dances—Chamber Orchestra, Schneider (Bass-Baritone), Schmitz (Pfte.).

## DEUTSCHLANDSENDER

(Germany)

191 kc/s (1,571 m.); 60 kW.

Transmits at intervals from 6.0 a.m. 12.0 noon—See Leipzig. 1.45 p.m.—News.

2.0—Variety. 3.0—Exchange; Programmes. 3.15—Records of La Scala, Milan, Singers. 3.45—Books.

4.0—Light Orchestral; at 5.0—Reading. 6.0—Folk Dances of Three Centuries (Recorded). 6.40—The Stuttgart Metallurgical Institute—Report.

7.0—"Here and There"—Vocal and Instrumental. 7.45—Topical.

8.0—Motto; News.

8.10—Quartets (Cassado, Mozart), by the Bruinier Quartet.

9.0—Station Orchestra. Conductor: Dobrindt. Suite (Rasch). Country Dances (Paulsen). Overture, "The Cunning Peasant" (Dvořák). Rondo (Schubert). Norwegian Dances (Grieg). 10.0—News.

10.30—Flute Sonata in E flat (Bach). 11.0-12.0 m't.—Dance and Light Music—Robert Band, Bass.

## FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW.

Cassel, etc. See Sunday.

Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg. 2.0 p.m.—News.

2.10—Variety from Deutschlandsender. 3.0—Talk; Markets. 3.15—For Children.

4.0—Freiburg Schrammel Quartet, Orchestra, etc. 6.0—Topical.

7.0—See Stuttgart. 8.30—The German Art Congress (Munich) in Retrospect (Recorded). 9.0—News.

9.15—See Stuttgart. 10.0—News. 10.20—Sports Talk by Lutz Koch, from Oslo.

10.35—Music from Cologne.

12.0 m't.—1.0 a.m. (Tuesday)—See Stuttgart.

## HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW.

Bremen, etc. See Sunday.

Transmits at intervals from 5.45 a.m. 12.0 noon—Concert. 2.0 p.m.—News; Music. 3.0—Shipping; Markets.

3.25—Gereke (Pfte.).

4.0—Light Orchestral, etc. In the intervals, Talks.

6.0—The Authors' Reunion at Hans Grimm's House, Lippoldsborg—Paul Alverdes, Rudolf G. Binding, Friedrich Bischoff, Hans Carossa,

Hermann Claudius, Hans Grimm, Benno von Mechow, Rudolf A. Schröder, August Winnig and Heinrich Zillich, at the Microphone. Members of the Göttingen University Orchestra and Choir. Conductors: Blankenburg and Brandt (Recorded). 6.40—Shipping. 7.0—Review: The German Art Congress. 7.30—Records. 7.45—Sports. 8.0—News.

8.10—Mainardi (Cello). Sicilienne (Paradis). Allegro spirituoso (Senaillé). Intermezzo (Granados). Zapateado (Sarasate). Après un rêve (Faure). Minuet (Debussy). Nocturne and Tarantella (Casella). 8.50—Records.

9.15—See Stuttgart. 10.0—News. 10.15—See Munich.

10.30-12.0 m't.—See Cologne.

## HILVERSUM (1,875 m.)

(Holland)

160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m.

VARA Programme.

7.40 a.m.—Records. 9.40—VPRO Religious Programme. 10.0—Recitations. 10.20—Jong (Organ). 10.50—Recitations. 11.10—Records. 12.10 p.m.—VARA Orchestra, Conductor: Lohoff. 1.10-1.25—Records. 1.40—The "Fantasia," Conductor: Walis and Records. 2.40—Recitations. 3.0—Holthaus (Baritone). 3.10—Records. 3.30—Songs (contd.). 3.40—Records. 4.10—For Children. 4.40—"De Fliere-fluiters," Conductor: v. d. Horst. B. v. Dongen (Songs). 5.25—"The Melody Circle," Conductor: Wins. 6.10—Music Talk. 6.50—Talk. 7.10—VARA Children's Choir. 7.45—SOS Messages; News.

7.55—Opera Concert. Haarlem Orchestra, Choir and Singers. Conductor: Schuurman.

8.40—VARA Orchestra, Conductor: Roedel. 9.40—News. 9.45—Lisette Stevens (Songs); Weeda (Mandoline); Jong (Organ). 10.25—Records. 11.10—The "Fantasia," Conductor: Walis.

## HILVERSUM (301.5 m.)

(Holland)

995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m.

NCRV Programme.

7.40 a.m.—Bible Reading; Meditation; Records; Sacred Music. 8.10—Records; at 9.10—Greetings. 10.10—Religious Programme. 10.40—Reading. 11.10—Records; at 11.40—News.

12.10 p.m.—Zwart (Organ). 1.40—Mlle W. Leemann (Soprano) and Mlle G. Broese van Groenou (Pfte.). 2.40—Talk; Records. 3.25—Bible Reading.

4.25—NCRV Salon Orchestra. 6.10—Letters; News; Report. 7.40—News.

7.55—"Wilhelmina" Orchestra. Conductor: Senman; at 8.35—Talk. 9.40—News. 9.55 (approx.)—v. Munster (Tenor) and Mlle R. Kool (Pfte.). 10.40-11.40—Records; Bible Reading.

## KALUNDBORG (Denmark)

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—Dalgaard String Ensemble. 2.50 p.m.—Radio Orchestra. Conductor: Grøndahl; at 3.35—For Housewives; and at 3.45—Borge Hansen (Pfte.). 4.50—Wireless Notes. 4.56—Poem. 5.0—Dialect Reading: 5.25—Weather; Exchange; Markets. 5.50—Records. 6.20—Talk. 6.50—Talk: Bathing and life-saving. 7.0—News. 7.30—Talk: Homing-pigeons.

8.0—Song Cycle, Dysekens Sange (Heise) by Karen Kaysen. 8.20—"Demobilisation"—Satire (Avertchenko); trans. Weltzer.

8.35—Italian Sacred Music from Odense Cathedral. Kelstrup (Organ). Hilda Tom-Petersen (Songs). Organ Toccata in A minor (Rossi). Mattinata (Caldara). Ave Maria (Cherubini). Organ Pastorale (Zipoli). O cessate di piangere (Stradella). Sonate d'Intavolatura for Organ (Zipoli).

9.0—Reports on the Danish Youth Meeting in South Jutland. 10.0—News.

10.20—Radio Orchestra. Conductor: Hye-Knudsen. Overture, "Halka" (Moniuszko). Waltz, "Der arme Jonathan" (Müllcker). Scenes from an imaginary Ballet (Coleridge-Taylor). Excerpts, "The Pearl Fishers" (Bizet). Paris March (Ganne).

11.10 p.m.—12.30 a.m. (Tuesday)—Skalka Dance Band; at 12.0 m't.—Chimes.



**KÖNIGSBERG (Heilsberg) (Germany)**

2,031 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—See Hamburg. 2.0-3.0 p.m.—News; Anniversaries; Records. 3.30—"Clothes make the Man—Man makes Clothes." 3.45—Reading. 4.0—Records. 6.0—Talk. 6.20—From Korschchen to the Rhön—Gebirge. 6.35—Announcements. 6.45—Musical Mosaic—Peter Arco and the Börschel Band. 7.45—Topical. 8.0—News. 8.10—Records: Scandinavian Music. 8.45—Review of the German Art Congress (Munich). 9.15—See Stuttgart. 10.0—News. 10.20—The Conversation between Queen Luise of Prussia and Napoleon at Tilsit—Programme for the Anniversary of the Queen's Death. 10.40-12.0 m't.—Music from Cologne.

**LAHTI (Finland)**

166 kc/s (1,807 m.); 150 kW. Relayed by Helsinki, 895 kc/s (335.2 m.). Transmits at intervals from 7.5 a.m. 5.0 p.m.—Radio Sextet. Conductor: Cronvall. Jubilee Festival March (Blankenburg). Overture (Kéler-Béla). Air from Eugene Onegin (Tchaikovsky), and "Paganini" (Léhar). Waltz, Wiener Bonbons (Strauss). 5.50—News (Finnish, Swedish). 6.15—For Mothers. 6.30—For Farmers. 6.40—Erik Karma (Viola) and Viljo Lehtinen (Songs). 7.10—Talk. 7.30—Japanese Music—Margherita Violant-Schauman (Songs), Tanell Kuusisto (Pfte.) and George de Godzinsky (Samisen). 8.0—"Vihreä aasi" (Martti Nisonen). 8.45—News (Finnish, Swedish). 9.10—Military Band from Viipuri. Conductor: Linnala. 10.0-11.0—Records.

**LEIPZIG (Germany)**

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). Transmits at intervals from 5.50 a.m. 12.0 noon—Fricke Band, etc. 2.0 p.m.—News. 2.15—Mozart Records. 3.35—Talk. 3.50—Art Review. 4.0—See Deutschlandsender; at 5.0—Markets. 6.0—Talk: von Boyen. 6.20—"Rundadinella"—a Merry Roundelay (Bräutigam) by Hitler Youth. 6.50—Music Books. KdF Festival Concert from Carlsfeld. Erzgebirge (Recorded). 8.10—"Max and Moritz"—Burlesque Oratorio after Busch (Schuler) by Solo Voices, the Leipzig Symphony Orchestra and Station Choir. Conductor: Blumer (Recorded). 9.0—News. 9.15 (from Dresden)—"Forest Solitude"—Sequence (Rudolf Linke). 10.0—Review of the German Art Congress (Munich). 10.30—News. 10.50-12.0 m't.—Music from Cologne.

**LILLE (Radio PTT Nord) (France)**

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m. 5.45 p.m.—Symphony Concert by the Station Orchestra. Conductor: Soret. 6.30—See Bordeaux-Lafayette. 7.0—News. 7.30—Economic and Social Notes. 7.45—Cycle Tour of France. 8.0—Talk. 8.10—Songs. 8.30—Symphony Concert by the Valenciennes Conservatoire Professors' Association. 10.30—News.

**LYONS (PTT) (France)**

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 6.30 p.m.—See Bordeaux-Lafayette. 7.0—News. 7.30—Economics. 7.45—Report: The Cycle Tour of France. 8.0—Aeronautics. 8.7—Talks. 8.30—Station Orchestra. Conductor: Witkowski. Alice Offner (Pfte.). de Seyguières (Tenor). Brandenburg Concerto (Bach). Aria, "Alceste" (Gluck). Symphonic Variations (Franck). Serenade (Cassella). Soupir (Duparc). La Vie Antérieure (Duparc). Introduction and Allegro (Ravel). Two Songs (Bordes). Dance (Debussy). Overture, "Russian and Ludmilla" (Glinka). 10.30—News.

**MONTE CENERI (Switzerland)**

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 7.45 p.m.—News. 8.10—Provincial Programme. 10.0—See Beromünster. 10.15-11.15—A Ticino Almanac.

**MOSCOW (No. 1) (Russia)**

172 kc/s (1,744 m.); 500 kW. 5.30 p.m.—News. 6.0—Records. 6.30—Provincial Programme. 9.0—For Germany. 9.55—Kremlin Chimes. 10.5—English Talk: Felix Dzerzhinsky, Creator of the Cheka. 11.0—For Hungary. 12.0 m't.-1.0 a.m. (Tuesday)—For Spain.

**MUNICH (Germany)**

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—Orchestra. 1.0 p.m.—News; Records. 1.45—News. 2.0—See Deutschlandsender. 3.0-3.20—Incredible Tales in Word and Song. 4.0—Markets. 4.15—Vocal and Instrumental. 4.55—Talk: Petty Annoyances. 5.15—Light Orchestral. 6.45—Talk: The International Gliding Competitions at the Wasserkuppe, Rhön. 7.0—Variety, with Adolf Gondrell (Comedian), Schrammel Ensemble, Dance Band, etc. 9.0—News. 9.10—Pfte. Concerto in D minor (Mozart) by Viktoria Wolfram-Schröff and the Station Orchestra. Conductor: Winter (Recorded). 9.40—Reading (Meyer). 10.0—News. 10.15—Germany's Recovery. 10.30-12.0 m't.—See Cologne.

**OSLO (Norway)**

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 11.0 a.m. 5.30 p.m.—Light Music. 6.30—Reading. 6.50—News. 7.30—Time; Wang (Saxophone) and Andresen (Pfte.). 8.0—Talk with Music. 8.20—Talk. 8.40—Astra Desmond (Songs). Hebridean Songs. English Songs. 9.10—Foreign Affairs. 9.40—News. 10.0—Topical. 10.15-10.35—The Nehrning Brothers (Xylophones). Waltz, "Faust" (Gounod). Excerpts, "The Barber of Seville" (Rossini). Czardas (Barta). Los Banderilleros (Volpatti). Wellenspiele (Robrecht). Foxtrot (Arndt). Stars and Stripes (Souza).

**PARIS (Eiffel Tower) (France)**

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 11.35 a.m. 8.0 p.m.—Television. 8.30—To be announced.

**PARIS (Poste Parisien) (France)**

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Records of Rode and Jany Delille's Orchestras. 12.35—Exchange. 12.39—Records of the Neapolitan Orchestra and Giuseppe Lugo (Songs). 12.55—Report: The Cycle Tour of France. 1.5—Amateur Detective Competition. 1.25—Records. 2.0 and 3.45—Exchange. 4.20—Report: The Cycle Tour of France. 4.35 and 6.0—Exchange. 6.5—Overture, "The Mastersingers" (Wagner) (Recorded). 6.15—Paul Arcne Poems. 6.35—Neufeld (Violin). 6.45—Records. 6.53—Racing Results. 6.55—Sports. 7.0—News. 7.25—Film Records. 7.40—Report: The Cycle Tour of France. 7.55—"La table tournante"—Sketch (Bergeret). 8.0—Topical. 8.5—"La bonne histoire." 8.20—Song Records. 8.35—Paris Programme. 9.0—News. 9.10—"La jeune fille dans le soleil" (Pingault-Schweibel). 9.40—"De main" (Diamant-Berger). 10.5—News. 10.10—Dance Records. 10.30-11.0—Variety Records.

**PARIS (PTT) (France)**

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 4.0 p.m.—Pergola (Organ), from the Schola Cantorum. Jesu meine Freude (Bach). Choral in E (Franck). Improvisation. 4.30—Reading. 4.45—Records. 5.15—Poetry. 5.30—For Gardeners. 5.45—Art Review. 5.52—Talk. 6.0—Mme Gourgues-Magnan (Pfte) Prelude in E minor (Chopin). Excerpts, Kreisleriana (Schumann). Nocturne in A flat (Fauré). 6.15—Marguerite Girard (Songs). 6.30—Perrin (Violin). Caprice (Paganini - Kreisler). Berceuse (Fauré). Rondo (Mozart-Kreisler). 6.45—For Farmers. 7.0—News. 7.45—Cycle Tour of France. 8.10—Birds in Music—Records. 8.30—"Malbrouck s'en va t'en Guerre"—Three-Act Play (Achaud); Incidental Music by Auric—presented by the "Mai 36" Players. 10.30—News. 10.45-11.0—Records of Old French Songs. Le roi d'Yvetot (Béranger). Les Cloches de Vendôme (arr. Darcieux). La chanson des blés d'or (Doria). Quand l'oiseau chante (Tagliafico).

**PARIS (Radio-Paris) (France)**

182 kc/s (1,648 m.); 80 kW. Time signals at 7.15 a.m., 8.30 p.m., and 10.45 p.m. 6.50 a.m.—Records; at 7.0—Gym. 7.30—News. 8.0-8.30—Records. 10.15—Records: Italian Songs and Opera Arias. 11.0—"Grandmother's Music Album"—Records. 11.30—Records. 12.0 noon—Ibos Orchestra; at 12.15 p.m.—Talk. 1.15—Mlle Delattre (Songs). 1.30—News. Review by Pierre Seize. 1.45—Ibos Orchestra. 2.0—Readings of Medieval History and Chronicles. 2.30—Wind Instrument Records. 2.50—Cycle Tour of France. 3.0—Women's Journals. 3.15—Reading. 3.30—Talk. 3.45—Henriette Deligée (Songs). 4.0—Talk. 4.20—Reading. 4.30—Anniversaries. 5.0—Pascal Orchestra. 6.0—Art Talks. 6.30—Books. 6.50—Dietetics. 6.55—Paul Reboux. 7.0—Markets. 7.3—Records. Minuet (Massenet). Sais-tu (de Fontenailles). Guitare (Thomé). 7.15—Monique d'Arvor (Songs). Aria, "Figaro" (Mozart). Les berceaux (Frudhomme-Fauré). Les roses d'Espagne (de Lisle-Fauré). Separation (Chénier-Hillemecher). Chanson des fleurs nouvelles (Rhené-Baton). 7.30—Reine Bessis (Cello). 7.45—Jeanne-Marie Conty (Songs). 8.0—Political Review. 8.15—Talk. 8.30—"Les cent Vierges" (Lecocq); at 9.30—Press Review. 10.30—French Opera Records. Excerpts: "Les Dragons de Villars" (Maillart), "Galathée" (Massé), "Le Grand Mogol" (Audran). 10.45—News.

**PRAGUE (Czechoslovakia)**

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 4.10 p.m.—FOC Orchestra. 4.50—Talk. 5.5—FOC Orchestra. 5.40—Berka (Cello). 6.0—For Farmers. 6.5—German Transmission: Talks; Reading. 6.45—News (German). 6.55—Record. 7.0—News. 7.10—See Brno. 8.10—Talk. 8.25—Dreams (Smetana) by Firvukny (Pfte.). 9.0—Orchestra. Violin, from Moravská-Ostrava. 9.55—Record. 10.0—News. 10.20—Records. 10.40—News (German).

**RADIO-NORMANDIE (France)**

1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m.—Military Band. 7.0—News. 7.45—Light Music. 8.30—Records. 8.45—Melodies. 9.0—Records. 9.15—Light Music. 9.30—Records. 9.45—Romantic Melodies. 10.0—Military Band Music. 10.15—Light Music. 10.30—Popular Music. 10.45—Records. 11.0—Symphony Music. 12.0 noon—Records of André Bauge. 12.20 p.m.—Concert; at 12.35—News. 2.0—Records. 2.30—Report: The Paris Exhibition. 2.45—Light Music. 3.30—Records. 3.45—Light Music. 4.0—Records. 4.30—Accordion. 4.45—Variety. 5.0—For Children. 5.15—Light Music. 5.30—For Children. 5.45—Light Music. 6.0—Children's Corner. 6.45—Talk; News; Racing. 7.0—Concert. 7.40—News. 8.0—Variety. 8.40—Music. 9.0—Concert. 11.0—Café Concert. 12.0 m't.—Midnight Melodies. 12.30-1.0 a.m. (Tuesday)—Dance Music.

**REYKJAVIK (Iceland)**

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon. 9.10 p.m.—Weather (Icelandic, German, English). 9.20—Light Music. 9.55—Announcements. 10.0—Time; News. 10.30—Talk. 10.55—Radio Orchestra. 11.30—Quartet in G minor (Debussy).

**ROME (Italy)**

713 kc/s (420.8 m.); 50 kW. Naples, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15—Light Music. 5.55-6.5—Poems. 6.50—Royal Geographical Society's Report. 7.0—Sports; Talk (French); Light Music. 7.53—News in Foreign Languages. 8.10—Time; News. 8.30—Government Review by Dr. Virginio Gayda. 9.0—Symphony Concert. Conductor: Fedeli. Sixth Symphony (Tchaikovsky). Overture, "Semi-ramide" (Rossini). In the interval, Talk. 10.15—Variety, with the Cetra Orchestra. 10.45—Dance Music. 11.0—News. 11.15—News (English). 11.30-11.50—Dance Music.

**SOTTENS (Switzerland)**

677 kc/s (443.1 m.); 100 kW. Relayed by Gencva, 401 kc/s (748 m.). 12.30 p.m.—News. 12.40—Records. 1.20-1.30—Records: Russian Music. 5.0-6.0—See Beromünster. 6.0—Records: Pfte. Sonata in F (Beethoven) by Schnabel. 6.20—Reading. 6.30—Records of Duke Ellington's Band. 7.0—Talk: Lausanne. 7.10—Reading (Myriam Harry). 7.20—Talk. 7.30—Music. 7.45—News. 8.0—Report: The Cycle Tour of France. 8.5—Radio Suisse romande Orchestra. Conductor: Haug. Overture, "Masaniello" (Auber). Wo die Zitronen blüh'n (Strauss). Malagueña (Mozzkowski). Selection, "Cavalleria rusticana" (Mascagni). 8.45—Songs from "Images et Chansons" (Boller). 9.10—Radio Suisse romande Orchestra. Conductor: Haug. Suite, "Castor and Pollux" (Rameau). Serenade in C (Haydn). First Symphony in C (Beethoven). 10.0—See Beromünster. 10.15-11.15—See Monte Ceneri.

**STOCKHOLM (Sweden)**

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.5 p.m.—Folk Music and Verse. 5.45—Talk. 6.15—Records. 7.15—News. 7.30—Topical. 7.45 (from Göteborg)—Light Orchestral. 8.45—Talk. 9.15—Cabaret. 9.45—News. 10.0-11.0—Chamber Music. Viola Sonata in C sharp minor (Korngauth). Serenade in D for Flute, Violin and Viola (Beethoven).

**STRASBOURG (France)**

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 4.0 p.m.—Brahms Concert—Strasbourg Municipal Orchestra. Conductor: Munch. Drillon (Violin), Bergmann (Cello). Tragic Overture. Double Concerto in A minor. 4.50—Markets. 5.0—Alsatian Review (German). 5.15—Schubert and Fauré Music by Mme Ruef-Sommer (Pfte.). 5.30—Science Talk. 5.45—See Lille (Radio PTT Nord). 6.30—Chamber Music from Toulouse (PTT). 7.0—News. 7.30—Economics. 7.45—Cycle Tour of France. 8.0—News (German, French). 8.15—For Farmers. 8.30—Cities of the World—A Suite (Guyard). 9.0—Variety Concert from Plombières-les-Bains Casino. March (Schubert). Overture, "The Caliph of Bagdad" (Boieldieu). Suite, "Peer Gynt" (Grieg). Minuet (Boccherini). Selection, "Cavalleria rusticana" (Mascagni). Ballet égyptien (Luigini). In the interval, "Voltaire visits King Stanislas Leszczynski at Plombières"—Sketch (Pommier). 10.30—News. 11.0—News (German).

**STUTTGART (Germany)**

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 12.0 noon—See Hamburg. 2.0-3.0—See Deutschlandsender. 4.0—Baden-Baden Spa Orchestra, Gietmann Dance Band. 6.0—Topical. 7.0—Orchestra, Peasant Band, Stuttgart Folk Music Society, etc. 8.30—Review of the German Art Congress (Munich). 9.0—News; Talk: The NSDAP Congress for Germans Abroad. 9.15—"An Alpine Holiday"—Dialect Sequence with Music and Songs (Heynickel-Holder). 10.0—News. 10.30—See Cologne. 12.0 m't.-1.0 a.m. (Tuesday)—

**MONDAY (July 19)**

Haydn Chamber Music from Ludwigsburg Castle (Recorded). Quartet. Contralto Songs. Diver-timento in C. Das Echo.

**TOULOUSE (Radio-Toulouse) (France)**

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.30 a.m. 6.0 p.m.—Marches. 6.15—Film Music. 6.35—Orchestra. 6.50—News; Sports. 7.0—Excerpt, "Ciboulette" (Hahn). 7.15—News. 7.40—Music. 7.45—Operetta Music. 8.0—Concert from the Salle Pleyel. 8.45—Orchestra. 9.10—Love Songs. 9.25—Famous Voices. 9.50—Paris Programme. 10.20—Dance Music. 10.35—Chansonnettes. 10.50—Operetta Music. Excerpts, "Rose Marie" (Friml). Overture, "The Drum - Major's Daughter" (Offenbach). 11.0—Songs. 11.15—Marches. 11.35—Light Music. 11.50—Announcements.

**TURIN (No. 1) (Italy)**

1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15-5.50—Lorenzo Lugli (Violin). 6.50—Royal Geographical Society's Report. 7.0—Music. 7.40—News in Foreign Languages. 8.10-9.0—See Rome. 9.0—"Il braccialeto. Onc Act Play (Traversi). 9.50—Talk. 10.0—Petroni (Violin) and Fuga (Pfte.) Sonata in G minor (Tartini). Sonata in F (Mozart). Sonata in D minor (Brahms). 11.0—News. 11.15-11.55—Dance Music.

**VIENNA (Austria)**

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News. 4.5—Film and Dance Records. 5.0—Talk: Early Austrian Music. 5.20—Philosophy. 5.40—Arias from Contemporary Opera by Telasko ("Baritone), Hymn to Gold, "Volpone" (Peter). Arias, "Seguidilla bolero" (Gurlitt), "La fiamma" (Respighi), and "Dr. Johannes Faust" (Reutter). Song, "Jonny spielt auf" (Krenek). 5.55—Adele Bauminger (Violin). Largo (Mortari). Rondo (Schubert-Friedberg). Nicolette s'endort (Recli). Burlesque (Suk). 6.10—Topical. 6.20—Review. 6.30—For Labour Youth. 7.0—News. 7.10—Topical. 7.35—Bruckner Festival Concert from the Festhalle, Steyr—Vienna Symphony Orchestra. Guest Conductor: Weisbach. Seventh Symphony (Schubert). Sixth Symphony (Bruckner). 9.40—Station Dance Band; at 10.10—News. 10.45—Books. 10.55—Announcements. 11.0-11.30—Station Dance Band.

**WARSAW (Poland)**

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m. 11.57 a.m.—Time; Fanfare. 12.3 p.m.—News. 12.15—Talk. 12.25—Records: Bryan Choir. 12.40-1.0—Topical. 3.45—Economics. 4.0—Dialogue for Children. 4.15—Salon Trio. Gavotte (Martini). Serenade (Gounod). Spanish Dance, No. 2 (Moszkowski). Elegy (Arensky). Slav Dance (Dvořák). The Rosary (Nevin). Bolero (Moszkowski). Barcarolle (Offenbach). 4.45—Reading. 5.0—Station Dance Band. 5.50—Talk. 6.0—Programme Notes. 6.5—Song Records. 6.50—Topical. 7.0—For Soldiers. 7.40—Talk. 7.50—Sports Notes. 8.0—Navy Band from Gdynia. Conductor: Dulin. March (Neuman). Waltz (Zichner). Slav Dance (Dvořák). Polkas and Oberkes (Janiszewski). Waltz Potpourri (Glinka). Down South (Myddleton). Fanfare (Dulin). 8.45—News. 9.0—Cigány Ensemble. 9.45—Recitation. 10.0—Byk (Pfte.). Thirteen Variations ("Es war einmal ein alter Mann" (Beethoven). Three Preludes and Two Mazurkas (Chopin). Barcarolle in E flat (Fauré). Scherzetto and Waltz (Schmitt). Brazilian Air (Lobos). 10.35—Opera Records. 10.50-11.0—News; Press Review.



# TUESDAY July 20

## 5 p.m.

**ATHLONE**, 5.30—Band.  
**BRUSSELS (1)**, Belgian Dance Music. 5.30 — Play for Children. **BRUSSELS (2)**, Spanish Music—Orchestra and Records. 5.45—For Children. **BUDAPEST (1)**, Pfte. 5.30 — Talk with Records: Arabian Weddings. **COLOGNE**, Concert. 5.30 — German for Germans. 5.50 — Knapstein Music.  
**DEUTSCHLANDSENDER**, Story. 5.10 — Light and Opera Music.  
**HAMBURG**, Light Orchestral. 5.15 — Variety. **HILVERSUM** (1,875 m.), 5.10 — Kovacs Lajos Orchestra, Songs. **HILVERSUM** (301.5 m.), 5.40 — KRO Melodists, Songs.  
**KÖNIGSBERG**, Light Orchestral.  
**LEIPZIG**, Markets; Band, Soprano.  
**MOSCOW**, 5.30 — Concert.  
**MUNICH**, 5.15 — Schrammel Ensemble, Band, Sketch.  
**OSLO**, 5.15 — Songs, Saxophone and Records.  
**PARIS (PTT)**, Pascal Orchestra.  
**RADIO-PARIS**, American Conservatoire Concert. 5.30—Talks.  
**SOTTENS** and **BEROMÜNSTER**, Radio Suisse romande Orchestra.  
**VIENNA**, 5.30—Schubert Songs. 5.45—Pfte.

## 6 p.m.

**ATHLONE**, Band. 6.10 — Talk. 6.25—Accordion. 6.35—News.  
**BERLIN**, Roosz Band. **BEROMÜNSTER**, Wind Band Records. 6.20 — Talk. 6.40 — Lecture-Recital: Recorder and Chamber Music. **BRUSSELS (1)**, 6.5 — Review. 6.15 — Records. 6.30 — Victor and Theo Kalkman Music—Radio Orchestra. **BRUSSELS (2)**, For Children. 6.30 — Salon Orchestra, Songs; at 6.45—Talk. **BUDAPEST (1)**, 6.5—Orchestra.  
**COLOGNE**, Knapstein Music. 6.30 —Where are you Comrade? 6.50 —Records.  
**DEUTSCHLANDSENDER**, Romantic Music (Schumann, von Hausegger, Schubert). 6.20 — Review. 6.40—Records; Talk.  
**FRANKFURT**, Topical.  
**HAMBURG**, Musical Dialect Sequence. 6.45 — Notes. **HILVERSUM** (1,875 m.), Orchestra, Songs (contd.). 6.40 — Dance Band. **HILVERSUM** (301.5 m.), KRO Melodists, Songs. 6.40 — News.  
**KÖNIGSBERG**, "Anton und Rosa" — A Portrait (Jäkel). 6.30 — News. 6.50 — Songs and Rhymes.  
**LEIPZIG**, Visit to the Elbsandsteingebirge. 6.20—Talks.  
**MOSCOW**, Talks. 6.30—Records.  
**MUNICH**, Schrammel Ensemble and Band (contd.). 6.50 — Anniversaries.  
**OSLO**, Songs, Saxophone, and Records. 6.20 — For Women. 6.50—News.  
**PARIS (PTT)**, Pfte. 6.15 — Records. 6.30 — Armenian Folk Songs. 6.45—Songs. **PRAGUE**, 6.5 — 16th and 17th Century German Madrigals; Sonata (Berg) by the Composer (Pfte.). 6.45 — News and Notes (German).  
**RADIO-PARIS**, Review; Aviation. 6.30—Dramatic.  
**SOTTENS**, Reading. 6.15—English Music — Radio Suisse romande Orchestra. **STOCKHOLM**, 6.15 — Orchestra.  
**STUTTART**, Topical.  
**VIENNA**, Talks.

## 7 p.m.

**ATHLONE**, Act III, "Aida" (Verdi). 7.35 — "Hugh O'Neill" — Sketch (Staunton).  
**BERLIN**, Echoes. 7.20—Records.  
**BEROMÜNSTER**, Lecture-Recital (contd.). 7.20 — Record. 7.25 — League of Nations Report. 7.40 — News. 7.55 — Light Music—Solothurn Stadtmusik. **BRESLAU**, "Liebe zum Leben" — Words and Music about Carl Spitzweg (Gärtner).  
**BRUSSELS (1)**, Review; Notes. 7.15 — "La Chapelle" (Paul Bourget) with César Franck Music. 7.30 — Review. **BRUSSELS (2)**, Salon Orchestra, Songs. 7.15 — Records. 7.30 — For Women. **BUCHAREST** and

**RADIO-ROMANIA**, 7.45 — Romanian Songs. **BUDAPEST (1)**, Erno Szép. 7.30 — Hungarian Folk Songs with the Magyari Cigány Band.  
**COLOGNE**, Records. 7.45 — Snapshots.  
**DEUTSCHLANDSENDER**, Holiday Sketch with Records. 7.45—Topical.  
**FRANKFURT**, Music of the Westmark — Band, Mandoline Band, Men's Choir and Baritone.  
**HAMBURG**, Cavalry Marches by a Trumpeter Corps. 7.45 — Topical. **HILVERSUM** (1,875 m.), Dance Band. 7.10 — Talk. 7.40 — News. 7.55 — Musical Guessing Competition. **HILVERSUM** (301.5 m.), News; Talks. 7.40—News.  
**KÖNIGSBERG**, Songs and Rhymes. 7.15 — Georg Walter (Tenor) and the Ninke Trio (Beethoven, Haydn, Schubert, Mozart). 7.45—Topical.

## PRINCIPAL EVENTS

**SYMPHONY CONCERTS**  
 8.0 Brussels 1: Belgian festival.  
 8.50 Prague: Berlioz, Nezval.  
 9.15 Kalundborg: Svendsen.  
**LIGHT CONCERTS**  
 2.50 Kalundborg: Preil's Ensemble.  
 4.0 Deutschlandsender: Opera music, etc.  
 5.0 Paris (PTT): Pascal Orchestra.  
 5.10 Hilversum (1,875 m.): Lajos Orch.  
 6.15 Sottens: Light English music.  
 7.10 Prague: Military Band.  
 7.30 Budapest 1, Regional: Cigány music.  
 8.0 Kalundborg: Opera music.  
 8.0 Sottens: Soirée de chansons.  
 8.0 Stockholm: Orchestra, Frey (pfte.).  
 8.0, 10.0 Warsaw: Light orchestral.  
 8.15 Athlone: Radio orchestra.  
 8.30 Eiffel Tower: "A la Malmaison."  
 8.30 Paris (PTT): Classical dances.  
 9.25 Hilversum (1,875 m.): Orch., choir.  
 9.30 Vienna: Strauss, Millöcker, Ziehrer.  
 9.55 Beromünster: From Interlaken.  
 10.20 Kalundborg: Danish music.  
 10.30 Hamburg: Light and dance music.  
 12.0 Frankfurt, Stuttgart: Opera music.  
**OPERAS**  
 8.10 Strasbourg: "Carmen."

**LEIPZIG**, Günther Commemoration.  
**MONTE CENERI**, 7.45 — News. 7.55—Report. **MOSCOW**, Records. 7.30 — Literature.  
**MUNICH**, Records. 7.20 — "The Master of Ballantrae" — Play after R. L. Stevenson (Kuhnert).  
**OSLO**, News. 7.30 — Orchestra.  
**PARIS (PTT)**, News. 7.45 — Report. **POSTE PARISIEN**, News. 7.25 — Records. 7.40 — Report. 7.55 — The Voice of Experience. **PRAGUE**, News. 7.10 — Band. 7.45 — Sketch.  
**RADIO-NORMANDIE**, Concert. 7.40—News. **RADIO-PARIS**, Records. 7.15 — Violin. 7.30 — Marie Thérèse Holley (Songs). 7.45—Pfte. **ROME**, Talk (English); Music; Notes. 7.53 — News in Foreign Languages.  
**SOTTENS**, Talks. 7.30—Music. 7.45 — News. **STOCKHOLM**, Orchestra. 7.15 — News. 7.30 — Talk. **STUTTART**, Records and Anecdotes.  
**TURIN**, Orchestra. 7.40 — News in Foreign Languages.  
**VIENNA**, News. 7.10 — "O alte Burschenherrlichkeit" — Song Cycle (Ganglbauer). Vienna Schubert Society's Quartet. 7.30—Reading.  
**WARSAW**, 7.15 — Violin (Bach, Falla, Dvořák, etc.). 7.50 — Sports.

## 8 p.m.

**ATHLONE**, Sketch (contd.). 8.15 — Orchestra.  
**BERLIN**, News. 8.10 — Military Band. In the interval, "Der Musikfeind" (Genée), with the Station Orchestra, etc. **BEROMÜNSTER**, Light Music (contd.). 8.25—Interview. 8.35 —Records: "Tsar and Carpenter" (Lortzing). **BRESLAU** and **KÖNIGSBERG**, News.

8.10 — Soldiers' Jokes Old and New, with Music. **BRUSSELS (1)**, Belgian Festival — I.N.R. Symphony Orchestra and Women's Choir, Pfte., Violin, Tenor. **BRUSSELS (2)**, "Die Fledermaus" (Strauss). I.N.R. Chorus and Operetta Orchestra.  
**BUCHAREST** and **RADIO-ROMANIA**, Songs (contd.). 8.15 — Talk. 8.30 — Records.  
**BUDAPEST (1)**, Folk Songs (contd.). 8.40—News.  
**COLOGNE**, News. 8.10 — Records. 8.50—Words and Music.  
**DEUTSCHLANDSENDER**, News. 8.10 — Kaiser and Roosz Dance Bands.  
**EIFFEL TOWER**, 8.30—Variety Concert. Part I. "Les belles rencontres du passé—Une soirée à la Malmaison," with the Raugel Choir and Station Troupe. Part II. "La quinzaine sonore" (Constantin-Brive).  
**FRANKFURT**, Music of the Westmark (contd.).  
**HAMBURG**, News. 8.10 — "A Seaside Holiday" — Variety. **HILVERSUM** (1,875 m.), Competition (contd.). 8.55—Songs by Boy Scouts. **HILVERSUM** (301.5 m.), News; Records.

**VIENNA**, Surprise River Trip for the Danube Festival.  
**WARSAW**, Light Music. 8.45 — News.

## 9 p.m.

**ATHLONE**, Orchestra. 9.30 — Variety.  
**BERLIN**, Band (contd.). **BEROMÜNSTER**, 9.5 — Surprise. 9.15 — "Bacchusfest" — Play (Schnitzler). 9.55 — Concert from Interlaken Kursaal. **BRESLAU** and **KÖNIGSBERG**, Soldiers' Jokes (contd.). **BRUSSELS (1)**, Talk. 9.15 — Belgian Music. **BRUSSELS (2)**, "Die Fledermaus" (contd.).  
**BUCHAREST** and **RADIO-ROMANIA**, Records. 9.30 — News. 9.45 — Café Concert.  
**BUDAPEST (1)**, "Storm over Paris" — Play after Dumas.  
**COLOGNE**, Words and Music.  
**DEUTSCHLANDSENDER**, Dance Bands (contd.).  
**EIFFEL TOWER**, Variety Concert (contd.).  
**FRANKFURT**, News. 9.15 — Loewe Ballads by Böhmer (Bartone), Pfte. in the intervals.  
**HAMBURG**, Variety (contd.).

8.35 Beromünster: "Tsar and Carpenter" (excerpts).  
 9.0 Radio-Paris, etc.: "La vivandière."  
 9.0 Turin: "The Love Philtre."  
**OPERETTA**  
 8.0 Brussels 2: "Die Fledermaus."

**CHAMBER MUSIC**  
 4.0 Radio-Paris: American Conservatoire.  
 9.15 Stuttgart: Trout Quintet (Schubert).  
 10.15 Oslo: Flute, pfte. sonatas.  
 10.30 Deutschlandsender: Purcell, Haydn.

**RECITALS**  
 7.15 Radio-Paris: Violin, song, pfte.  
 8.55 Hilversum (1,875 m.): Scouts songs.  
 9.15 Frankfurt: Karl Loewe ballads.

**PLAYS**  
 6.50 National: "The Lunatic at Large."  
 7.20 Munich: "Master of Ballantrae."  
 7.35 Athlone: "Hugh O'Neill."  
 9.0 Sottens: "La Parisienne" (Beccue).  
 9.15 Beromünster: "Bacchusfest."  
**LAST NEWS BULLETINS**, see Monday  
**DANCE MUSIC**  
 8.10 Deutschlandsender; 10.20, Brno, Prague; 10.25, Regional; 10.40, Königsberg; 10.45, Rome; 10.50, Hilversum (1,875 m.); 11.0, Kalundborg; 11.15, National.

**MISCELLANEOUS**  
 8.0 Vienna: "A Trip down the Danube."

**HILVERSUM** (1,875 m.), Songs. 9.25 — AVRO Orchestra, Choir, Singers. **HILVERSUM** (301.5 m.), Records. 9.25 — KRO Orchestra.  
**KALUNDBORG**, For Youth. 9.15 — Symphony in D (Svendsen) by the Radio Orchestra.

**LEIPZIG**, News; Orchestra, Singers, etc. (contd.). **LILLE**, Play (contd.).  
**MONTE CENERI**, Pfte. (contd.).  
**MOSCOW**, For Germany.  
**MUNICH**, News. 9.10 — Orchestra, Songs.  
**NICE-COTE d'AZUR** and **RADIO-PARIS**, "La Vivandière" (Godard).  
**OSLO**, Variety Concert. 9.40 — News.  
**PARIS (PTT)**, Classical Dances (contd.). **POSTE PARISIEN**, News. 9.10 — Two One-Act Plays. **PRAGUE**, Symphonie fantastique (Berlioz) (contd.). 9.55—Record.  
**RADIO-NORMANDIE**, Variety Concert. **ROME**, "L'amore di Gheteuz" — Play (Silvestri).  
**SOTTENS**, "La Parisienne" — Play (Beccue). **STOCKHOLM**, Orchestra, Pfte. (contd.). 9.20 — Play. 9.45—News. **STRASBOURG**, "Carmen" (contd.).  
**STUTTART**, News. 9.15 — Schubert Music by the Salzburg Mozart Quartet and Claudio Arrau (Pfte.).  
**TOULOUSE**, "The Barber of Seville" (contd.). 9.10 — Fantasy. 9.25 — Marches. 9.50 — Paris Programme. **TUBIN**, "L'elisir d'amore" (Donizetti). Conductor: Berrettoni. Gigli (Tenor) and Lina Pagliughi (Soprano).  
**VIENNA**, The Art of Enjoying Oneself. 9.30—Strauss Music.  
**WARSAW**, Light Music. 9.45 — Recitation.

## 10 p.m.

**ATHLONE**, Variety. 10.30 — News.  
**BARCELONA**, News; Records.  
**BEROMÜNSTER**, Concert (contd.). 10.30—News. **BRNO**, Swing Records. **BRUSSELS (1)**, News. 10.10 — Records. 10.55—Christus vincit (Liszt). **BRUSSELS (2)**, News. 10.10 —Records. **BUCHAREST** and **RADIO-ROMANIA**, Café Concert. 10.45—News (French, German, Romanian). **BUDAPEST (1)**, 10.5—Songs. 10.35—Talk in English by Dorothy Latimer: Hungarian Influences in British Entertainment. 10.50 — Salon Orchestra.  
**COLOGNE**, News. 10.30 — English Talk. 10.50 — Music from Hamburg.  
**DEUTSCHLANDSENDER**, News. 10.30 — Wichmann Trio (Purcell, Haydn).  
**EIFFEL TOWER**, Variety Concert (contd.).  
**HAMBURG** and **MOST GERMAN STATIONS**, News. 10.30 — Light and Dance Music. **HILVERSUM** (1,875 m.), Orchestra, etc. (contd.). 10.10 — Topical. 10.25 — Records. 10.40 — News. 10.50 — Dance Bands. **HILVERSUM** (301.5 m.), KRO Orchestra. 10.10 — News. 10.25 —Swiss Orchestra—The Magnolians.  
**KALUNDBORG**, News. 10.20 — Danish Music. **KÖNIGSBERG**, News. 10.20 — Review. 10.40 —Light and Dance Music.  
**LEIPZIG**, Soprano, Guitar, Violin (Bach, Brahms, Gluck, etc.). 10.30 — News. 10.50 — Music from Hamburg. **LILLE**, Play (contd.). 10.30—News.  
**MOSCOW**, 10.5 — For Holland.  
**MUNICH**, News. 10.20 — Serenade—Orchestra, etc.  
**NICE-COTE d'AZUR** and **RADIO-PARIS**, "La Vivandière" (contd.).  
**OSLO**, Topical. 10.15—Chamber Music (Bach, Blum, Telemann, Platti).  
**PARIS (PTT)**, Classical Dances (contd.). 10.30 — News. 10.45 —Records. **POSTE PARISIEN**, Plays (contd.). 10.10 — Records. 10.30 — From the Scheherazade. **PRAGUE**, News. 10.20 — Dance Records.  
**RADIO-NORMANDIE**, Variety Concert. **ROME**, Play (contd.). 10.15 — Branka Musulin (Pfte.). (Scarlatti, Chopin, Liszt, etc.). 10.45—Dance Music.  
**SOTTENS**, "La Parisienne" — Play (contd.). **STOCKHOLM**, Records. **STRASBOURG**, "Carmen" (contd.). **STUTTART**, News. 10.20 — Review. 10.40 —Songs (Ramrath, Ruch).  
**TOULOUSE**, Paris Programme. 10.20 — Songs. 10.35 — Orchestra. 10.50 — Operetta Airs.  
**TURIN**, "L'elisir d'amore" (contd.).  
**VIENNA**, Strauss (contd.). 10.10 —News. 10.20—Millöcker Music. 10.45—Talk in French, Notes.  
**WARSAW**, Orchestra.

## 11 p.m.

**BARCELONA**, News; Records.  
**BUDAPEST (1)**, Salon Orchestra.  
**DEUTSCHLANDSENDER**, Records.  
**HAMBURG** and **MOST GERMAN STATIONS**, Music (contd.). **HILVERSUM** (1,875 m.), Dance Band. 11.20 — Records. **HILVERSUM** (301.5 m.), Orchestra, etc. (contd.). 11.10 — Records.  
**KALUNDBORG**, Dance Band.  
**KÖNIGSBERG**, Music (contd.).  
**MOSCOW**, For Sweden.  
**MUNICH**, Serenade (contd.).  
**PRAGUE**, News in English.  
**RADIO-NORMANDIE**, Café Concert. **ROME**, News. 11.15 — News (English). 11.30 — Dance Music.  
**STRASBOURG**, "Carmen" (contd.). 11.30 — News (French, German).  
**TOULOUSE**, Light Music; Notes. **TURIN**, "L'elisir d'amore" (contd.). 11.30 — Dance Music, Ziehrer Music.  
**VIENNA**, Ziehrer Music.

## 12 midnight

**BARCELONA**, News (Italian, German, French, Portuguese).  
**BUDAPEST (1)**, 12.5—News.  
**FRANKFURT** and **STUTTART**, Opera Records.  
**KALUNDBORG**, Dance Band.  
**MOSCOW**, For Spain.  
**RADIO-NORMANDIE**, Records. 12.30—Dance Music.



NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45 (D)—Dance Records. 11.15 (D)—Cinema Organ. 11.45 (D)—Ezra Pitt and Elmer. 12.15 p.m. (D)—Orchestra. 1.0 (D)—Gladys Ripley (Contralto); William Pleeth (Cello). 1.45 (D)—Hanwell Silver Band. 2.30 (D)—Survey of Recorded German Lieder by Sydney Northcote, D.Mus. 3.0 (D)—Light Music. 3.30 (D)—The Davis Cup. 3.40 (D)—Records. 4.15 (D)—Gipsy Orchestra. 4.40 (D)—"Paste and Paper." 5.0 — The Karl Caylus Players: Winifred Bury (Mezzo-Soprano). 6.0—The First News. 6.25—George Ackroyd (Flute). 6.50 — Naunton Wayne as "The Lunatic" in "The Lunatic at Large," by Lance Sieveking. 8.0—BBC Orchestra (Section C), conducted by Sir Ernest MacMillan. 9.0—The Third News. 9.20 — America Today — Alistair Cooke. 9.40 — "Follow On": Revue in Miniature. 10.0—BBC Theatre Orchestra: Ina Souez (Soprano). 11.0—Poetry Reading. 11.15—Lew Stone and his Band. 11.30-12.0—Dance Records.

REGIONAL

For Time Signals, see Monday. 10.15-10.45 a.m. (ex. Western) — National. 10.45 (ex. Western) — BBC Welsh Orchestra: André Evnett (Pfte.). 11.45 (ex. Western) — Theatre Orchestra. 12.30 p.m.—Records. 1.0 (ex. Western) — BBC Northern Ireland Orchestra: William Boyd (Tenor). 1.35 (Scottish) — Herring Bulletin. 1.45 (ex. Western) — Malcolm C. Boyle (Organ). 2.25 (ex. Western) — The Harp Trio. 2.45—Missionary talk. 3.0 (ex. Western) — Torquay Municipal Orchestra: Edward Reach (Tenor). 4.0 (Northern) — Evensong from York Minster. 4.30 (ex. Western, N. Ireland; Northern 4.45)—Records. 4.30 (N. Ireland) — British Medical Association Service, from Belfast. 5.0 (N. Ireland 5.30) — Children's Hour. 6.0 (ex. Northern, Western) — Reginald King and his Orchestra: Billy Mayerl (Pfte.). 6.0 (Northern)—Orchestra. 6.0 (Western)—National. 6.50 (Northern) — Chester Bells. 7.0 (ex. Western) — Second News. 7.20 (ex. Western)—Regional Announcements. 7.30 (ex. Western) Cigány Music from Budapest. 8.0 (ex. Northern, Welsh)—Variety. 8.0 (Northern) — "Hark Forward!" 8.0 (Welsh)—Welsh News. 8.15 (Welsh)—New artists. 8.30 (Northern) — "Flippant Fingers." 8.40 — (ex. Northern, Western, Scottish) — "The British Diarists": Lord Ponsonby. 8.40 (Northern)—Discussion. 8.40 (Western)—Records. 8.40 (Scottish) — "Roving Commission." 9.0 (ex. Midland, Welsh, Scottish) — The Orpheans. 9.0 (Midland)—Revue Orchestra. 9.0 (Welsh) — Offa Mixed Glee Singers: Ederm Jones (Baritone). 9.0 (Scottish)—W. B. Ross (Organ). 9.20 (Scottish) — Gaelic Youth Movement. 9.40 (Regional, N. Ireland) Angus Morrison (Pfte.). 9.40 (Midland) — Harry Buckley (Flute). 9.40 (Northern) — "Fine Prospects." 9.40 (Western)—For Gardners. 9.40 (Welsh) — "If I Borrow Revisited Wild Wales." 9.50 (Scottish)—Scottish News. 10.0 (ex. Western) — News Summary. 10.25 (ex. Western; Northern 10.30)—Lew Stone and his Band. 10.25 (Northern) — Leeds Flower Show. 11.30 (ex. Western) — Late News Summary. 11.40-12.0 (ex. Western)—Records.

Hours of Transmission in British Summer Time.

**ATHLONE (Ireland)** 565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—To be announced. 5.30—European Tour No. 2 with Artane Band, etc. 6.10—"As I see it" by Seamus O'Duinn. 6.25—Terry Lane (Accordion). 6.35—Irish News Feature. 6.45—News. 7.0—Act III, "Aida" (Verdi). 7.35—"Hugh O'Neill"—A Dramatisation of his Life by Helen Staunton. 8.15—Radio Orchestra. Conductor: Lieut. J. M. Doyle. 9.30—Variety. 10.30—News. 11.0—National Anthem.

**BARCELONA (EAJ1) (Spain)** 795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News; Records; at 11.0. Time; News. 12.0 m't.—1.0 a.m. (Wednesday) — News (Italian, German, French, Portuguese).

**BERLIN (Germany)** 841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Munich. 1.45 p.m.—Music. 2.0—News. 2.15—Bayreuth Festival Records. 3.0-4.0—Records; at 3.15—Exchange. 4.30—Music from Königsberg. 5.30—"Nanga-Parbat"—Excerpts from Documents and Diaries of the German 1934 Himalayan Expedition. 6.0—Rooz Band. 7.0—Evening Echoes. 7.20—Records. 8.0—News; Topical. 8.10—Military Band. In the interval, "Der Musikfeind" (Genée), with the Station Orchestra, etc. Conductor: Willy Steiner. 10.0—News. 10.30-12.0 m't.—See Hamburg.

**BEROMÜNSTER (Switzerland)** 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Bern. 1,375 kc/s (218.2 m.). 6.10 a.m.—Gym. 6.35—Weather. 12.0 noon—Modern Ballet Records. 12.29 p.m.—News. 12.40-1.30—See Sottens. 4.30—Records. 4.59—Time. 5.0-6.0—See Sottens. 6.0-7.25—Programme from Berne. 6.0—Wind Band Records. 6.20—Talk. 6.40—Lecture-Recital: Recorded and Chamber Music. 7.20—Records. 7.25—League of Nations Report. 7.40—News. 7.55—Light Music by the Solothurn Municipal Orchestra. 8.25—Interview with the Leader of a Rescue Party. 8.35—Records: "Tsar and Carpenter" (Lortzing). 9.5—Surprise. 9.15 — "Bacchusfest" — Play (Schnitzler). 9.55 — Concert from Interlaken Kursaal. 10.30-10.35—News.

**BRATISLAVA (Czechoslovakia)** 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—Hungarian Transmission: Film Notes: Ilona Hercsuth (Pfte.); For Workers. 6.45-7.45 — See Prague. 7.45—Play from Kosice. 8.15—See Prague. 8.35—Medical Talk. 8.50-11.0—See Prague; at 10.20—News (Hungarian).

**BRESLAU (Germany)** 950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 5.0 a.m. 12.0 noon—See Munich. 1.45 p.m.—Music. 2.0—News. 2.10-3.0—Variety from Deutschlandsender. 3.30—Silesian Fairy Tales (Recorded). 4.0—See Deutschlandsender; at 5.0 —Books. 6.0—Books. 6.20—See Deutschlandsender. 6.40 —Records. 6.50—For Farmers. 7.0 (from Gleiwitz)—For Germans Abroad: "Liebe zum Leben"—Words and Music about Carl Spitzweg (Gärtner). 8.0—News. 8.10—Soldiers' Jokes Old and New, with Music—Military Band, etc. 10.0—News. 10.30-12.0 m't.—See Hamburg.

**BRNO (Czechoslovakia)** 922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 6.15 p.m.—Cechura (Saxophone). 6.35—Talk. 6.45-7.45—See Prague. 7.45 — Sketch. 8.15 — See Prague. 8.35—Talk. 8.50-10.20—See Prague. 10.20-11.0—Dance Records.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m.—Homing-Pigeon Notes. 6.37-9.0—Records; Gym; News. 12.0 noon — Massenet Records. 12.35 p.m.—Potpourris by the Salon Orchestra. 1.0 — News. 1.10 — Radio Orchestra. 1.30 — Bizet and Delibes Records. 2.0-2.3 — Art Notes. 4.55 — News. 5.0 — Belgian Music by Brenders Dance Band. 5.30 — "Vive la Belgique" — Play for Children. 6.5 — Literary Review. 6.15 — Records: Divertissement (Ibert). 6.30 — Victor and Théo Kalkman Music by the Radio Orchestra. Conductor: Gason. Petite Suite (V. Kalkman). Conte plaisant (T. Kalkman). Appassionata (V. Kalkman). Danse caractéristique (T. and V. Kalkman). 7.0 —Roman Catholic Review; Film Notes. 7.15 — "La chapelle" (Paul Bourget) with César Franck Music. Génicot (Reciter). 7.30—I.N.R. Review. 8.0 — Belgian Festival I.N.R. Symphony Orchestra and Women's Choir. Conductor: Franz André. Berthe Laventurier (Pfte.). Wagemans (Violin), Anspach (Tenor). Marches des communiers brugeois (Dubois). La guirlande des dunes, for Tenor.



General Victor Buffin, whose music forms part of the Belgian Festival at Brussels No. 1 at 8 p.m.

Choir and Orchestra (Buffin). Poem for Violin and Orchestra (Barbier). Passacaglia (Moulaert). 9.0—Talk by the Rev. Fr. Leleir. 9.15 — Belgian Music (contd.). Pfte. Concerto (de Greef). Symphonic Poem, Oiseaux de nuit (de Bourguignon). 10.0 — News. 10.10 — Records. 10.55-11.0—Christus vincit (Liszt).

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 5.0-5.10 a.m.—Homing-Pigeon Notes. 6.37-9.0—Records; Gym; News. 12.0 noon—Records. 12.30 p.m.—Radio Orchestra. 1.0 — News. 1.10 — Salon Orchestra. 1.30—Records. 2.0—Shipping. 4.55—News. 5.0 — Spanish Music by the Radio Orchestra. Conductor: Gason, with Records. 5.45 — For Children. 6.30 — Salon Orchestra. Conductor: Féron. Lia Martin (Songs); at 6.45 — Talk. 7.15 — Records: Sailor Songs. 7.30—For Women. 8.0—"Die Fledermaus" (Strauss). I.N.R. Chorus and Operetta Orchestra. Conductor: André. In the interval, Talk. 10.0—News. 10.10-11.0—Records.

**BUCHAREST (Romania)** 823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania (Brasov). 160 kc/s (1,875 m.). Transmits at intervals from 6.30 a.m. 6.3 p.m.—Records: Light Music. 7.25—Talk. 7.45—Grozutza (Romanian Songs). 8.15—Talk. 8.30 — Records: Seventeenth and Eighteenth Century Classical Music. 9.30—Sport; News. 9.45—Café Concert. 10.45—News (French, German, Romanian).

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. 12.5 p.m.—Records; at 12.30 — News. 1.40 — Ferenc Gabriel (Violin). 2.40—News. 4.15—Talk. 5.0—Ibolya Faragó (Pfte.). 5.30—Talk with Records: Arabian Weddings. 6.5—Orchestra. 7.0—Programme by Erno Szép. 7.30—Ferenc Szende (Hungarian Folk-Songs), accompanied by the Magyarai Cigány Band. 8.40—News. 9.0—"Storm over Paris"—Play after Dumas "Chevalier de Maison Rouge." 10.5 — Rózi Delmár (Songs). 10.35—Talk in English by Dorothy Latimer: Hungarian Influences in British Entertainment. 10.50 — Station Salon Orchestra, Conductor: Bertha. 12.5 a.m. (Wednesday)—News.

BUDAPEST (No. 2) (Hungary)

359.5 kc/s (834.5 m.); 18 kW. 6.10 p.m.—Talk: Hungarians Abroad. 6.45—Records. 7.15—For Farmers. 8.5 — Endre Möravek. 8.35—Sports Talk. 9.5—Berend Salon Orchestra, with Oszkár Adler.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.50 a.m. 12.0 noon—Band. 1.0 p.m.—News. 1.15—Music from Munich. 1.45—Music. 2.0-3.0—News; Riddles. 3.45—Markets. 4.0—Spa Concert from Oeynhausen. 5.30—German for Germans. 5.50—Knapstein Music — Choir, "Cello, Pfte. 6.30—Where are you, Comrade? 6.50—Records. 7.45 —Snapshots. 8.0—News. 8.10—Records. 8.50—Words and Music (arr. Wippermann and Haletzki). Station Orchestra. Conductor: Schulz-Dornburg. 10.0—News. 10.30—English Talk. 10.50-12.0 m't.—Music from Hamburg.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Stuttgart. 1.45 p.m.—News. 2.0 — Variety. 3.0 — Exchange; Programmes. 3.45—Records: Portuguese Folk-Songs. 3.45—Anti-Waste Campaign. 4.0—Light and Opera Music; at 5.0—Reading. 6.0 — Romantic Music—Contralto, Viola, Pfte. Märchenbilder (Schumann). Two Songs (von Hausegger). Allegro (Schubert). 6.20—Political Press Review. 6.40 —Records. 6.55—Genealogy. 7.0—Holiday Sketch (Lindemann), with Records. 7.45—Topical. 8.0 —Motto; News. 8.10—Kaiser and Rooz Dance Bands. 10.0—News. 10.30—Serenade—Wichmann Trio. Fantasies (Purcell). Trio in G (Haydn). 11.0-12.0 m't.—Records.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 6.0 a.m. 12.0 noon—See Munich. 1.45 p.m.—Music. 2.0—News; Records. 3.0—Talk; Markets. 4.0—See Königsberg. 6.0—Topical. 7.0 (from Coblenz)—Music of the Westmark. Band, Mandoline Band, Men's Choir, and Baritone. 9.0—News. 9.15—Loewe Ballads by Böhrer (Baritone). Pfte. Music in the intervals. 10.0—News. 10.30—See Hamburg. 12.0 m't.—1.0 a.m. (Wednesday)—Opera Records.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.45 a.m. 12.0 noon—Bremen Stadtmusikanten, "Achimer Blasliit." 1.0 p.m.—Topical. 1.15—Music from Munich. 1.45—Music. 2.0—News; Music. 3.0—Shipping. 3.15—Markets. 3.25—Schubert Records. 4.0—Light Orchestral. In the interval—Books. 5.15—"Love . . ." —Variety. 6.0—"When we were Young"—Musical Dialect Sequence (arr. Dieckelmann). 6.45 — Harbour Notes. 7.0—Old Cavalry Marches by a Trumpeter Corps, from Kiel. 7.45

TUESDAY (July 20)

—Topical. 8.0—News. 8.10—"A Seaside Holiday"—Variety, with the Station Dance Band, etc. 10.0—News. 10.30-12.0 m't.—Light and Dance Music—Station Orchestra, Soprano.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. AVRO Programme. 7.40 a.m.—Records. 9.40—Service. 9.55 — Records. 10.10 — Lensky (Violin) and Veer (Pfte.). 10.40—Talk for Women. 11.10—Kovacs Lajos Orchestra. Nina Dolce (Songs). 12.10 p.m.—Palla (Organ). 12.40—Records. 12.50—Aeolian Orchestra. 1.40—Rozelaar (Cello); Veer (Pfte.); Rick Bonset-Horst (Recitations). 2.40—"The Paladians," and Palla (Organ). In the interval, Records. 4.10—Children's Choir. 4.40—For Children. 5.10—Kovacs Lajos Orchestra. Jetty Cantor (Songs). 6.40—AVRO Dance Band. 7.10—Talk. 7.40—Time; News. 7.55—Musical Guessing Competition. 8.55 —Songs by Boy Scouts. 9.25—AVRO Orchestra. Conductor: van Raalte; Choir; Singers. 10.10 —Topical. 10.25—Records. 10.40—News. 10.50—AVRO Dance Band. 11.20-11.40—Records.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m. KRO Programme. 7.40-8.55 a.m.—Records. 9.40—Records. 11.10—Religious Address. 11.40—News. 11.55—KRO Melodists. Conductor: Lustenhouwer. Klein Jr. (Songs). 12.40 p.m.—Records. 12.55—KRO Orchestra. Conductor: Reinards. 1.40 — For Women. 2.40—KRO Chamber Orchestra. Conductor: Reinards. 3.25—Records. 3.40 — Jewish Programme: Records and Talks. 4.50—Records; Greetings. 5.40—KRO Melodists. Conductor: Lustenhouwer. Klein Jr. (Songs). 6.40—News; Talks. 7.40—News; Records. 8.55—Records. 9.25—KRO Orchestra. Conductor: Reinards. 10.10—News. 10.25—Swiss Orchestra—"The Magnolians." 11.10-11.40—Records.

KALUNDBORG (Denmark)

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—Andersen String Ensemble. 2.50 p.m.—Preil's Ensemble; at 3.40—Reading. 4.50—Wireless Notes. 4.56—Poem. 5.0 —Talk: Seamen's Chaplain at Hamburg; from 1893-1903. 5.25—Weather; Exchange; Markets. 5.50 —Records. 6.20—Talk: The Evolution of the Gun. 6.35—Poems (Lind). 6.50—Talk: Artificial Respiration. 7.0—News. 7.30—Talk: Housework and Men. 8.0—Opera Music—Radio Orchestra. Conductor: Grøndahl. Asger Stig (Songs). Overture and Aria, "Fidelio" (Beethoven). Overture, "Euryanthe" (Weber). Drinking Song, "Der Freischütz" (Weber). Prelude to Act 3, "Lohengrin" (Wagner). Wotan's Farewell and Magic Fire, "The Valkyrie" (Wagner). 8.45 —For Youth. 9.15—Symphony No. 1 in D (Svendsen) by the Radio Orchestra. Conductor: Grøndahl. 10.0—News. 10.20—Danish Music—Radio Orchestra. Conductor: Grøndahl. Suite, "Stepan" (Hamerik). Excerpt, "Hakon Jarl" (Hartmann). Overture, "Aladdin" (Horneman). 11.0 p.m.—12.30 a.m. (Wednesday) —Nicolaism Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg) (Germany)

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. 2.0-3.0 p.m.—News; Anniversaries; Music. 3.30—Fairy Tales and Songs. 4.0—Light Orchestral. 6.0—"Anton und Rosa"—A Portrait (Jäkel). 6.30—Sport. 6.40—News. 6.50—Songs and Rhymes. 7.15—Georg Walter (Tenor). Ninke



**TUESDAY (July 20)**

Trio, Allegro (Beethoven). Songs (Bach, Haydn, Schubert, Mozart, Beethoven). Allegro (Mozart).  
7.45—Topical. 8.0—News.  
8.10—See Breslau. 10.0—News.  
10.20—Political Press Review.  
10.40-12.0 m't.—Light and Dance Music—Station Orchestra

**LAHTI (Finland)**

166 kc/s (1,807 m.); 150 kW. Relayed by Helsinki, 895 kc/s (335.2 m.).  
Transmits at intervals from 7.5 a.m. 5.0 p.m.—Records: French Music. 5.50—News (Finnish, Swedish). 6.15—For Farmers. 6.35—Teemu Grönberg (Finnish Songs) from Sortavala. 6.55—Recitation. 7.15—Talk.  
7.30—Radio Sextet. Conductor: Cronwall, Margit Heikel (Songs) and Timo Mikkilä (Pfte.). Melodies (Schubert). Songs: (a) Das Fischermädchen (Schubert). (b) Mondnacht (Schumann). (c) Die schöne Fremde (Schumann). Melody, "Madam Butterfly" (Puccini). Songs: (a) Der Gärtner (Wolff). (b) Heimliche Aufzucht (Strauss). Blue Danube (Strauss). Heil Europa (Blon).  
8.45—News (Finnish, Swedish). 9.10—Café Concert. Conductor: Blomstedt. 10.0-11.0—Records.

**LEIPZIG (Germany)**

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).  
Transmits at intervals from 5.50 a.m. 12.0 noon—Band. 1.0 p.m.—News. 1.15—Music from Munich. 1.45—Music. 2.0—News. 2.15—Dresden Fritzsche Quartet, Pfte. 3.20—Talk. 3.40—Reading.  
4.0—Fuchs Band, Soprano; at 5.0—Markets. 6.0—Visit to the Elbsandsteingebirge. 6.20—Books. 6.30—Athletics. 7.0—Günther Commemoration, with the Zschorlau Nightingales, etc.  
8.0—Summer Evening in Bad Elster—The Spa Orchestra, Singers, etc. Conductor: Weber; at 9.0—News.  
10.0—Serenade—Soprano, Guitar, Violin. Minuet (Bach). Musette (Bach). Songs (Brahms). Minuet and Gavotte (Gluck). Songs (Brahms). Minuet (Mozart). German Dance (Mozart). Songs (Brahms). Waltzes (Schubert). German Dance (Weber). 10.30—News.  
10.50-12.0 m't.—Music from Hamburg.

**LILLE (Radio PTT Nord) (France)**

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m. 8.0 p.m.—Jazz, with Dehette and Duchêne.  
8.30—"La danse de minuit"—Play (Méré), from Limoges (PTT). 10.30—News.

**LYONS (PTT) (France)**

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 7.0 p.m.—News. 7.30—Economics. 7.45—Report: The Cycle Tour of France. 8.0—Talks.  
8.30—See Paris (Eiffel Tower). 10.30—News.

**MONTE CENERI (Switzerland)**

1,167 kc/s (257.1 m.); 15 kW. 7.45 p.m.—News. 7.55—Report: The Cycle Tour of France. 8.10—Choral Records.  
8.30-9.30—Hans Vogt (Pfte.). Epigrafe (Castelnovo-Tedesco). Reflets dans l'eau (Debussy). L'isole joyeuse (Debussy). Toccata (Prokofiev). Promenades (Poulenc).

**MOSCOW (No. 1) (Russia)**

172 kc/s (1,744 m.); 500 kW. 5.30 p.m.—Concert. 6.0—Talk. 6.30—Records. 7.30—Literary Programme. 8.0—Music Talk. 9.0—For Germany. 8.55—Kremlin Chimes. 10.5—For Holland. 11.0—For Sweden. 12.0 m't.—1.0 a.m. (Wednesday)—For Spain.

**MUNICH (Germany)**

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—Orchestra. 1.45 p.m.—News.  
2.0—See Deutschlandsender. 3.0-3.30—Holiday Sketch (Reinhardt). 4.0—For Farmers. 4.15—Vocal and Instrumental Folk Music. 4.55—Reading.

5.15—Schrammel Ensemble and Schneider Band. In the interval, Sketch. 6.50—Anniversaries. 7.0—Records of Völkler (Tenor); 7.20—"The Master of Ballantrae"—Play after R. L. Stevenson (Kuhnert). 9.0—News. 9.10—Station Orchestra, Songs. 10.0—News.  
10.20-12.0 m't. (from Nürnberg)—Serenade—Orchestra, etc. Conductor: Böhm. Overture, "The Water Carrier" (Cherubini). Fantasia (Kempfer). Aus Holberg's Zeit (Grieg). Theme and Variations (Franz Strauss). Slav Dance (Hoffmann). Rhapsody (Hartung). Aria (Bergson). Suite der Liebe (Knümann). Allegro (Gabler). Orchideen (Schönian). Overture (Leuschner).

**NICE-COTE D'AZUR (France)**

1,185 kc/s (253.2 m.); 60 kW. Transmits at intervals from 6.30 a.m. 9.0-11.0 p.m.—"La Vivandière" (Godard); at 10.30—News; Records.  
**OSLO (Norway)**  
260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 11.10 a.m. 5.15 p.m.—Eva Wold (Songs), Strand (Saxophone) and Records. 6.20—For Women. 6.50—News. 7.30—Station Orchestra. Conductor: Kramm. March (Souza). Overture, "Semiramis" (Rossini). Potpourri (Wijck). Czardas (Monti). Rhapsody (Kaempfert). Selection, "The Count of Luxembourg" (Lehár). Waltz (Elliot). Marche militaire (Olsen); at 8.10—Talk.  
9.0—Variety Concert. 9.40—News. 10.0—Topical.  
10.15—10.45—Chamber Music—Steen (Flute), Heisholt (Pfte.). Sicilienne (Bach). Der Schwann (Blum). Flute Sonata (Telemann). Flute Sonata (Platti).

**PARIS (Eiffel Tower) (France)**

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 11.35 a.m. 8.0 p.m.—Television.  
8.30—Variety Concert. Part I "Les belles rencontres du passé—Une soirée à la Malmaison," with the Raugel Choir and Station Troupe. Part II "La quinzaine sonore" (P. and R. Constantin-Brive).

**PARIS (Poste Parisien) (France)**

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Excerpt, "Der Rosenkavalier" (R. Strauss) (Recorded). 12.10—Radio Prize-Winners. 12.35—Exchange. 12.39—New Records. 1.0—Amateur Detective Competition. 1.15—Records. 2.0, 3.45, 4.35—Exchange. 6.0—Exchange. 6.5—Religious Programme. 6.15—Records. 6.53—Racing Results. 6.55—Sports. 7.0—News. 7.25—Records. 7.40—Report: The Cycle Tour of France. 7.55—"The Voice of Experience." 8.0—Topical. 8.5—"La bonne histoire." 8.20—Songs. 8.35—Petite-Suite de Concert, (Coleridge - Taylor) (Recorded). 9.0—News.  
9.10—Two One-Act Plays: (a) "Ulysse" (Duvic), (b) "Le bar des ombres" (Descaves-Gril).  
10.10—Records. 10.30-11.0—From the Sheherazade.

**PARIS (PTT) (France)**

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Light Music by the Pascal Orchestra.  
6.0—Postelnikoff (Pfte.). Les Colines d'Anacapri (Debussy). A Musical Snuff-box (Liadov). Prelude (Prokofiev). Etude poétique (Scriabin).  
6.15—Records.  
6.30—Armenian Folk-Songs by Yvone Missir-Louvat.  
6.45—Borthayre (Songs).  
7.0—News. 7.45—Report: The Cycle Tour of France. 8.0 News. 8.10—Records: Romanian Music.  
8.30 (also for Alpes-Grenoble (PTT) and Marseilles (PTT)). Classical Dances—National Orchestra. Conductor: Rosenthal. Mme Cariven (Harp). Dances from "Zoroastre" (Rameau). Viennese Dances (Beethoven). Invitation to the Waltz (Weber Berlioz). Quadrille, "Orpheus in the Underworld" (Offenbach). Polovisian Dances (Borodin). Two Dances for Harp (Debussy). Rhapsody in Blue (Gershwin). Joyeuse marche (Chabrier).  
10.30—News. 10.45—"Birds"—Records.

**PARIS (Radio-Paris) (France)**

182 kc/s (1,648 m.); 80 kW. Time Signals at 7.15 a.m., 12.30 p.m., 8.30, and 10.45.  
6.50 a.m.—Records. 7.0—Gym. 7.15—Records. 7.30—News. 8.0-8.30 Records. 10.15—Records. 10.30—"Fire"—Records. 11.0—Records: Classical and Modern English Music. 11.30—"The Eyes"—Records. 11.55—Talk.  
12.0 noon—Light Orchestra. Conductor: André; at 12.15 p.m.—Talk: The Ministry of National Economics. 1.15—Bianchi (Songs). 1.30—News. 1.45—Light Orchestra (contd.).  
2.0—"La procession de la Pénitence de Furnes"—Play with Paul Castan and Company. 2.30—Records: Three Songs (Fauré). 2.45—Pfte. Records. 3.0—Reading. 3.15—Talks. 3.45—Rodrigo (Pfte.).  
4.0—Concert from the American Conservatoire, Fontainebleau. Conductor: Nadia Boulanger. Excerpts, "Les fêtes d'Hébé" (Rameau) and "Pelléas et Mélisande" (Debussy).  
5.30—Talks: 6.0—History Book Review. 6.15—Aviation. 6.30—Dramatic.  
7.0—Records of Lily Laskine (Harp) and Orchestra.  
7.15—Nenny Le Menn (Violin).  
7.30—Marie-Thérèse Holley (Songs). Les cygnes (Hahn). La paix est dans le bois (Bordes). Venise marine (de Breville). Nous nous amérons tant (Lili Boulanger).  
7.45—Mamy (Pfte.). Carillon de Cythère (Couperin-le-Grand). Mazurka in E minor (Chopin). Minuet (Paderewski). 8.0—Politics. 8.10—Foreign Affairs. 8.15—Talk.  
8.30—Rachel Piette (Songs). Romanian Song (Jongen). Pourquoi? (de Taeyc). Myrtha (Radoux-Rogier). Tu es parti (Goeyens). Chanson de Cybelia (Marsick). Vieille Chanson (de Greef). Elévation (du Chastain).  
9.0-11.0—See Nice-Côte-d'Azur; at 9.30 and 10.30—News.

**PRAGUE (Czechoslovakia)**

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 6.5 p.m.—German Transmission. Sixteenth and Seventeenth Century Madrigals by the Liberec Choir; Fantastic Sonata (Berg) by the Composer (Pfte.).  
6.45—News (German). 7.0—News. 7.10—Band from the Královská Opora. Conductor: Pesta. March. Overture, "The Bohemian Girl" (Balfe). Humoresque (Pesta). Excerpts, "The Merry Widow" (Lehár). Turkish Patrol (Michaelis).  
7.45—See Brno.  
8.15—Records: Czech Rhapsody—FOC Orchestra and Sroubek (Violin). 8.35—See Brno.  
8.50—Fantastic Symphony (Berlioz) by the Czech Philharmonic. Conductor: Allers. Introductory Poem (Nezval). 9.55—Record. 10.0—News. 10.20—See Brno.  
11.0-11.15—News in English.

**RADIO-NORMANDIE (France)**

1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m.—Military Band. 7.0—News. 7.45—Records. 8.0—Light Music. 8.30—Popular Music. 8.45—Melodies. 9.0—Records. 9.15—Music. 9.30—Popular Music. 9.45—Waltzes. 10.0—Cinema Organ. 10.15—Records. 10.30—Popular Music. 10.45—Light Music. 11.0—Chansonnettes. 12.0 noon—Records of the Bordin Orchestra. 12.20 p.m.—Concert; at 12.35—News. 2.0—Billy Cotton and his Band. 2.15—Records. 2.30—Report: The Paris Exhibition. 2.45—Pfte. 3.0—Oliver Kimball. 3.15—Favourite Music. 3.45—Variety Items. 4.45—Records. 5.0—Music. 5.15—For Children. 5.30—Light Music. 6.0—Children's Corner. 6.45—Talk; News; Racing Results. 7.0—Concert. 7.40—News. 8.0—Records of Fernandel. 8.20—Music. 8.40—Variety. 9.0—Variety Concert. 11.0—Café Concert. 12.0 m't.—Records; Midnight Melodies.  
12.30-1.0 a.m. (Wednesday)—Dance Music.

**REYKJAVIK (Iceland)**

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon 9.10 p.m.—Weather (Icelandic, German, English). 9.20—Light Music. 9.55—Announcements. 10.0—Time; News. 10.30—Talk.

11.0—Beethoven-Tchaikovsky Concert. Pfte. Concerto in C minor (Beethoven). Violin Concerto in C minor (Beethoven). Violin Concerto in D (Tchaikovsky).

**ROME (Italy)**

713 kc/s (420.8 m.); 50 kW. Naples, etc. See Sunday.  
Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15-5.50—Dance Music. 6.50—Dopolavoro Notes. 7.0—Talk (English); Music; Announcements. 7.53—News in Foreign Languages. 8.10—News. 8.30—Talk: Air Defence.  
9.0—"L'amore di Ghetiza"—Three-Act Play (Silvestri).  
10.15—Branka Musulin (Pfte.). Sonata in A (Scarlatti). Berceuse (Chopin). Au bord d'une source (Liszt). Prelude Sarabande and Toccata (Debussy). Contredanse (Papandopulo). Three Balkan Dances (Tajacicvic). Three Pieces from "Miniatures."  
10.45—Dance Music. 11.0—News. 11.15—News (English). 11.30-1.50—Dance Music.

**SOTTENS (Switzerland)**

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).  
12.30 p.m.—News.  
12.40-1.30—Records.  
5.0—Radio Suisse romande Orchestra. Conductor: Haug. Overture, "Le roi d'Ys" (Lalo). Waltz (Waldteufel). Selection, "Carmen" (Bizet). Berceuse (Massenet). Romance (Rubinstein). Furiant (Weinberger). Selection, "Samson and Delilah" (Saint-Saëns). 6.0—Reading.  
6.15—English Music by the Radio Suisse romande Orchestra. Conductor: Appia. Four Ways (Coates). Noel Coward Potpourri (Hall). Three Dances (Gernami). Moods (Haydn-Wood).  
7.0—Medical Hints. 7.10—History Talk. 7.20—Talk: The Finhant Folk Theatre. 7.30—Music. 7.45—News.  
8.0—Soirée de chansons, with Edith Burger and René Bersin and Company.  
9.0-10.30—"La Parisienne"—Three-Act Play (Beque), by the Deux-Masques Company.

**STOCKHOLM (Sweden)**

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday.  
Transmits at intervals from 7.45 a.m. 5.5 p.m.—For Children. 5.30—Cabaret. 6.0—The Roving Microphone. 6.15—Elite Orchestra. 7.15—News. 7.30—Talk: The Geology of Bohus-Län.  
8.0—Radio Orchestra. Conductor: Wiklund. Walter Frey (Pfte.). Overture, "Iphigenia in Aulis" (Gluck). Pfte. Concerto in A (Bach). Variations on a Haydn Theme (Brahms). Pfte. Concertino (Honegger). Suite, "L'Arlésienne" (Bizet).  
9.20—Play. 9.45—News. 10.0-11.0—Records.

**STRASBOURG (France)**

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 7.0 p.m.—News. 7.30—Economics and Social Notes. 7.45—Cycle Tour of France 8.0—News (German). 8.10 (also for Rennes-Bretagne)—"Carmen" (Bizet), from the Opéra-Comique, Paris. Conductor: Morel, with Renée Gilly as Carmen, Micheletti as Don José, and Bouvier as Escamillo. 11.30—News (French, German).  
**STUTTGART (Germany)**  
574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 12.0 noon—Orchestra, "Melorhythmikers."  
2.0-3.0 p.m.—See Deutschlandsender.  
4.0—See Königsberg. 6.0—Topical.  
7.0—Records and Anecdotes. 9.0—News.  
9.15—Schubert Music by the Salzburg Mozart Quartet and Claudio Arrau (Pfte.). The Trout Quintet. Impromptu in F minor. 10.0—News. 10.20—Political Press Review. 10.40—Songs (Ramrath, Ruch) by Anna Weinhöfel.  
11.0—Music from Hamburg. 12.0 m't.—1.0 a.m. (Wednesday)—See Frankfurt.

**TOULOUSE (Radio-Toulouse) (France)**

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.30 a.m. 6.0 p.m.—Pasodobles. 6.15—Opérette Music. 6.50—News; Sports. 7.0—Orchestra. 7.15—

News. 7.40—Light Music. 8.15—Film Music. 8.30—Orchestra. 8.45—Excerpts, "The Barber of Seville" (Rossini). 9.10—"Voyages"—Fantasy. 9.25—Marches.  
9.50—Paris Programme. 10.20—Songs. 10.35—Orchestra.  
10.50—Opérette Airs, "La Fille de Madame Angot" (Lecocq), "La Mascotte" (Audran), "Les mousquetaires au couvent" (Varney), "Rip Van Winkle" (Planquette).  
11.0—Jazz Band.  
11.15—Opera Arias, "Rigoletto" (Verdi), "Faust" (Gounod), "Tales of Hoffmann" (Offenbach), "Benvenuto Cellini" (Diaz).  
11.35—Light Music. 11.50—Announcements.

**TURIN (No. 1) (Italy)**

1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15—Dance Music. 5.55-6.5—For Women. 6.50—Dopolavoro Notes. 7.0—Orchestra. 7.40—News in Foreign Languages. 8.10—News. 8.30—See Rome.  
9.0—"L'edleur d'amore" (Donizetti). Conductor: Berrettoni. Cast: Gigli, Lina Pagliughi, Afro Poli, Umberto di Ielio and Maria Huder. In the intervals, Talks and News. 11.30 (approx.)—Dance Music.

**VIENNA (Austria)**

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday.  
Transmits at intervals from 6.45 a.m. 5.30 p.m.—Schubert Songs by Marianne Handl (Soprano). 5.45—Hedi Pohl (Pfte.). 6.0—Talk: Charles V. 6.25—Talk: Austria's Caves. 6.50—Astronomy. 7.0—News. 7.10—"O alte Burschenherrlichkeit"—Song Cycle (Ganglberger) by the Vienna Schubert Society's Quartet. 7.30—Reading. 8.0—Surprise River Trip for the Danube Festival—Andreas Reischek at the Microphone. 9.0—The Art of Enjoying Oneself.  
9.30—Concert by the Station Orchestra. Part I. Strauss. Overture, "The Queen's Kerchief." Waltz, "Wiener Blut." Overture, "Cinderella." Künstlergruss. Accelerationen. Intermezzo, "The Arabian Nights." Leichtes Blut. 10.10—News.  
10.20—Concert (contd.). Part II. Millocker. Overture, "Das verunschene Schloss." Am Himmelblauen See. Heimliche Liebe. Millocker Potpourri (Morena).  
10.45—Tourist Talk in French. 10.55—News.  
11.0-11.30—Concert (contd.). Part III. Ziehrer. Overture, "Ein tolles Mädel." Excerpts, "Die drei Wünsche." Wiener Bürger. Schönfeld March.

**WARSAW (Poland)**

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday.  
Transmits at intervals from 6.15 a.m. 12.3 p.m.—News. 12.15—Farmers' Letter-box. 12.25-1.0—Military Band. 3.45—Economics. 4.0—For Children.  
4.20—Weismann-Hubler and Landau (Pfte. Duets). Gavotte (Pirani). Andante with Variations (Schumann). Piece (Valle del Paz). Andalusian Dance (Infante). 4.45—Reading.  
5.0 (from Poznan)—"The Masters in Lighter Vein"—Violin Ensemble, Pfte., Flute, and Singers. Gassenhauer (Neusidler). Piece (Peuerl). Minuet (Lully). Ländler (Bach). Ländler and German Dance (Mozart). Contredanse (Beethoven). Folk Melody (Schubert). Quadrille (Strauss). Gavotte (Gossec). Minuet (Rameau). Allegro (Haydn). Gigue (Handel). Dance (Berlioz).  
5.50—Tourist Talk. 6.0—Financial Review. 6.15—Records. 6.50—Topical. 7.0—Sketch (Renn).  
7.15—Bakman (Violin). Sonata in G (Bach). Caprice (Paganini - Szymanowski). Fire Dance (Falla). Hungarian Dance No. 2 (Brahms). Slav Dance in G minor (Dvořák). La capriciosa (Ries). Caprice in A minor (Wieniawski). 7.50—Sports.  
8.0—Light Music by the Sereyński Orchestra and Soloists. March (Neuman). Serenata (Buzzi). Indian Love Call (Friml). Waltz (Lincke). Serenade (Bixio). Folk Song (Stolz). Song (Neisel). Selection, "Lilac Time" (Schubert-Berte); at 8.45—News.  
9.45—Recitation.  
10.0—Wilno Station Orchestra. Conductor: Szczepanski; at 10.15—News.



# July 21 WEDNESDAY

**5 p.m.**  
**ATHLONE**, 5.30—Records.  
**BERLIN**, Baritone, 5.15 — Chamber Music, 5.40 — Report.  
**BEROMUNSTER, MONTE CENERI and SOTTENS**, Orchestral Records, 5.10—Records: Völker (Tenor), 5.20 — Chamber Music. **BRUSSELS (1)**, 5.5 — Orchestra. **BRUSSELS (2)**, For Young People. **BUDAPEST (1)**, 5.30—Records.  
**DEUTSCHLANDSENDER, and COLOGNE**, Reading; Orchestra.  
**HAMBURG**, Bands; Reports.  
**HILVERSUM** (1,875 m.), 5.10 —Records, 5.55—Talk. **HILVERSUM** (301.5 m.), 5.40 — Records.  
**KÖNIGSBERG**, Orchestra, 5.10—Orchestra.  
**MOSCOW**, 5.30 — Concert.  
**MUNICH**, 5.15—Band.  
**OSLO**, 5.30—Café Concert.  
**RADIO - NORMANDIE**, Light Music, 5.45 — Current London Productions. **RADIO-PARIS**, Orchestra. **ROME**, News, 5.15 —Soprano, Baritone.  
**STOCKHOLM**, 5.5 — Women's Vocal Trio, 5.30 — Reading; 5.50—Records. **STRASBOURG**, 5.45—Concert.  
**TURIN**, News, 5.15 — Dance Music.  
**VIENNA**, 5.30 — Contemporary Austrian Music, Songs (Baselli), Violin and Pfte. Sonata (Herold).  
**WARSAW**, Orchestra, 5.50—Talk.

**6 p.m.**  
**ATHLONE**, Records, 6.15 — Guitar, 6.35—News.  
**BERLIN**, Band. **BEROMUNSTER**, For Children, 6.30 — Music, 6.40 — Talk in Dialect.  
**BRESLAU**, 6.20—Pollack (Pfte.), 6.45 — Talk; Notes. **BRUSSELS (1)**, "The Accession of Leopold 1", — Historical Play (Temmerman). **BRUSSELS (2)**, Records, 6.45 — Protestant Address. **BUCHAREST and RADIO-ROMANIA**, 6.3 — Orchestra. **BUDAPEST (1)**, Records, 6.10—Talk with Records: Hungarian Folk Music, 6.45 — Orchestra.  
**COLOGNE**, Story, 6.20 — Kirchner Chamber Music.  
**DEUTSCHLANDSENDER**, Lueder (Pfte.), 6.25 — Reading, 6.45—Sports.  
**FRANKFURT**, Topical Talks.  
**HAMBURG**, Talks, 6.15 — Henny Wolf (Soprano), 6.45 — Shipping. **HILVERSUM** (1,875 m.), Talks, 6.40—Tiggers (Songs). **HILVERSUM** (301.5 m.), Records, 6.10 — Talks; News.  
**KÖNIGSBERG**, Topical, 6.15 — French Opera Records; at 6.50 — Topical.  
**LEIPZIG**, Talks, 6.30 — Elly Hartwig-Correns (Contralto), Burgett (Pfte.), 6.50 — Science and Progress. **LILLE**, 6.30 — Light Orchestral.  
**MOSCOW**, Talk, 6.30 — Opera.  
**MUNICH**, Band, 6.40 — Talks.  
**OSLO**, Café Concert, 6.25 — For Children, 6.50 — News.  
**PARIS (PTT)**, Pfte.; Songs, 6.30—Records.  
**RADIO-NORMANDIE**, For Children, 6.45 — Talk; News.  
**RADIO-PARIS**, For Young People, 6.15 — Talks. **ROME and TURIN**, 6.50 — For Motorists.  
**SOTTENS**, French Music — Radio Suisse romande Orchestra.  
**STOCKHOLM**, Records, 6.45 —Talk. **STRASBOURG**, Concert, 6.30 — Records; Basque Melodies. **STUTTGART**, Topical.  
**TOULOUSE**, Light Music, 6.50 — News.  
**VIENNA**, Music (contd.), 6.20 —Talk, 6.40 — An Aviator's Adventures in the Far East.  
**WARSAW**, Educational, 6.10 — Notes, 6.15 — Records; Boulaner plays his own Music, 6.50 —Topical.

**7 p.m.**  
**ATHLONE**, Act IV, "Aida" (Verdi), 7.35 — A Glimpse of Holland, 7.50—Humour.  
**BERLIN**, Evening Echoes, 7.20 — Variety with Schuhardt (Tenor), Ignatieff (Balalaika), Raven (Accordion). **BEROMUNSTER**, News, 7.15 — Un-familiar Viola Music, 7.45 — News, 7.55 — Light Chamber Music. **BRESLAU**, "All about Love" — Variety; at 7.45 — Topical. **BRUSSELS (1)**, Records, 7.15 — Reviews, 7.30 — News. **BRUSSELS (2)**, Records, 7.30 — Report.  
**BUCHAREST and RADIO-ROMANIA**, Orchestra, 7.30 —

Talk, 7.50—Records. **BUDAPEST (1)**, Orchestra, 7.30 — Report, 7.45 — "Don Quixote de la Mancha" — Play (Cervantes-Bardos).  
**COLOGNE**, Male Voice Quartet, Fritsche (Flute), Wessel (Harp), 7.45—Snapshot.  
**DEUTSCHLANDSENDER**, "Evening Moods" — Kate Köhl (Speaker), Scholz (Pfte.) and Records, 7.45 — Topical.  
**FRANKFURT and STUTTGART**, Opera, Operetta and Light Music.  
**HAMBURG**, "The Dance of the Instruments" — Dance Band, Commentator, 7.45 — Topical. **HILVERSUM** (1,875 m.), Songs (contd.), 7.10 — Talk, 7.45 — News, 7.55 — Concert by "Fantasia", **HILVERSUM** (301.5 m.), News; Report, 7.40 — News, 7.55 — Women's Choir; String Orchestra and Organ.  
**KÖNIGSBERG**, Records (contd.), 7.30 — Comrade where are you?  
**LEIPZIG**, Topical, 7.15—"The Pusztá" — Hungarian Life in Words and Music, Leipzig Symphony Orchestra, Station Choir, etc. **LILLE**, News, 7.45 — Report.

(contd.). **BRUSSELS (1)**, Light Belgian Music. Conductor: Souris. Derissen (Cello). **BRUSSELS (2)**, Belgian Music—Orchestra, etc. 8.45—Talk. **BUCHAREST and RADIO-ROMANIA**, Records, 8.30—Chamber Music. **BUDAPEST (1)**, Play (contd.), 8.50—News.  
**COLOGNE**, News, 8.10 — Friedrich Wilhelm Weber Memorial Concert from Bad Hermannsborn.  
**DEUTSCHLANDSENDER**, News, 8.10—Band.  
**EIFFEL TOWER**, 8.30—"Boule de suif" — Play (Maupassant-Meterier); "Les Fourmis" — Play (Jeanson), by the "Art et Travail" Players.  
**FRANKFURT and STUTTGART**, Opera, Operetta and Light Music.  
**HAMBURG**, News, 8.10—Familiar Melodies—Concert from Saarbrücken. **HILVERSUM** (1,875 m.), Concert (contd.), 8.40—Cabaret. **HILVERSUM** (301.5 m.), Choir, etc. (contd.); at 8.40 — Talk.  
**KALUNDBORG**, Dance Band; Reading. **KÖNIGSBERG**, News, 8.10—Peter Arco and Band.  
**LEIPZIG**, "The Pusztá" (contd.).

**BEROMUNSTER**, To be announced, 9.25 — Bork (Pfte.).  
**BRESLAU**, "Engine Driver Heilmann" — Play (Troppenz).  
**BRNO**, 9.15—Septet in D minor (Hummel), 9.55 — See Prague.  
**BRUSSELS (1)**, Concert from Ostende Kursaal. **BRUSSELS (2)**, Concert from Knocke Casino. Conductor: Candael. Clara Clairbert (Songs) (Schoemaker, Candael, Ysaye). **BUCHAREST and RADIO-ROMANIA**, 9.5 — Emilia Gutziano (Romanian Songs), 9.30—News, 9.45—Salon Orchestra. **BUDAPEST (1)**, News, 9.30—Opera Orchestra.  
**COLOGNE**, "Petermann fährt nach Madeira" — Folk Play (Hinrichs).  
**DEUTSCHLANDSENDER**, Music of the Nations—Band.  
**EIFFEL TOWER**, Plays (contd.).  
**FRANKFURT**, News, 9.15—"Frankfurt-am-Main" — Sequence (Betzner).

**10 p.m.**  
**ATHLONE**, Variety, 10.30 — News, 10.45—Irish Concert from Budapest.  
**BEROMUNSTER**, Bork (Pfte.), 10.15—News. **BRESLAU, BERLIN, COLOGNE and HAMBURG**, News, 10.30 — Dance Band. **BRUSSELS (1)**, Concert (contd.), 10.30—News, 10.40 — Dance Band. **BRUSSELS (2)**, Review, 10.40—Records (Boccherini, Dvořák). **BUCHAREST and RADIO-ROMANIA**, Salon Orchestra, 10.45—News (French, German, Romanian). **BUDAPEST (1)**, Irish Evening.  
**DEUTSCHLANDSENDER**, News, 10.30—Ruthström (Violin), 10.45—Weather.  
**EIFFEL TOWER**, Plays (contd.).  
**FRANKFURT**, News, 10.20 — Comrade, where are you? 10.30 —Band, etc.  
**HILVERSUM** (1,875 m.), VARA Orchestra, 10.55—Records. **HILVERSUM** (301.5 m.), Choir, etc. (contd.), 10.10—Records.  
**KALUNDBORG**, News, 10.20—Reading, 10.45—Corelli Violin Music by Minna Poulsen (Violin), Esther Vagnig (Pfte.).  
**KÖNIGSBERG**, Play (contd.), 10.20—News, 10.30—See Breslau.  
**LEIPZIG**, Variety (contd.); at 10.30—News. **LILLE**, To be announced, 10.30—News.  
**MOSCOW**, 10.5—English Talk: The Stalin Constitution—The Red Army. **MUNICH**, News, 10.20 — Ernste Gesänge (Brahms), Augsburg Municipal Choir, and String Orchestra (Recorded).  
**OSLO**, Topical, 10.15—Dance Records.  
**PARIS (PTT)**, Quartet, etc. (contd.), 10.30—U.S.A. Bulletin, 10.45—News. **POSTE PARISIEN**, Chamber Music, 10.30 — Variety Records. **PRAGUE** and **BRNO**, News, 10.20—Prague Women Teachers' Choral Society.  
**RADIO - NORMANDIE**, "Madame Butterfly" (contd.). **RADIO-PARIS**, "La Reine Fiammette" (contd.), 10.30—Records, 10.45 —News. **ROME**, "The Sleeping-Car Steward" (contd.).  
**SOTTENS**, Song Records.  
**STOCKHOLM**, Dance Band.  
**STRASBOURG**, Orchestra (contd.), 10.30—News. **STUTTGART**, News, 10.30—Portuguese Music from Lisbon.  
**TOULOUSE**, Paris Programme, 10.20—Light Music. **TURIN**, Concert (contd.).  
**VIENNA and MONTE CENERI**, Bruckner Festival (contd.), 10.10 —News, 10.20—Dance Band, 10.45—Talk in Dutch.  
**WARSAW**, Dance Band, 10.50—News.

## PRINCIPAL EVENTS

**SYMPHONY CONCERTS**  
8.5 Vienna: Bruckner, Schmidt.  
8.45 Strasbourg: French music.  
9.30 Turin: Conductor, Bellezza.  
**LIGHT CONCERTS**  
12.30 Radio-Paris: Garde Républicaine Band.  
2.50 Kalundborg: Radio Orchestra.  
4.0 Deutschlandsender: Viennese music.  
5.0 Radio-Paris: Pascal Orchestra.  
5.5 Brussels 1: Felleman Orchestra.  
7.0 Frankfurt, etc.: Opera music, etc.  
7.0 Hamburg: Instrumental dances.  
7.20 Prague: Light orchestral.  
8.0 Brussels 1, 2 (9.0): Belgian music.  
8.0 Warsaw: Park concert.  
8.5 Athlone: Radio orchestra, soprano.  
8.10 Deutschlandsender: Military Band.  
8.30 Oslo: Conductor, Hugo Kramm.  
8.45 Sottens: Request concert.  
8.45 Stockholm: Choral concert.  
9.10 Leipzig: Variety concert.  
10.0 Hilversum (1,875 m.): VARA Orch.  
10.20 Prague: Women Teachers' choir.  
11.10 Budapest 1: Cigány Band.

**OPERA**  
8.30 Radio-Paris: "La Reine Fiammette."

**OPERETTAS**  
8.0 National: "Nikki Makes News."  
9.0 Rome: "The Sleeping-car Steward."  
**CHAMBER MUSIC**  
7.50 Hilversum (301.5 m.): Choir, strings.  
9.30 Paris (PTT): Clarinet quartet, etc.  
**RECITALS**  
6.40 Hilversum (1,875 m.): Song.  
7.0 Radio-Paris: Harpsichord, song, pfte.  
7.40 Oslo: Songs.  
9.0 Warsaw: Chopin.  
9.5 Bucharest: Romanian songs.  
**PLAYS**  
6.0 Brussels 1: "Leopold I."  
8.30 Eiffel Tower: "Boule de Suif," "Les fourmis."  
8.30 Paris (PTT): Sketch.  
9.0 Berlin: "Men in the Moon."  
9.0 Königsberg: "Inge" (Felix).  
9.0 Turin: "Purificazione" (Rocca).  
**TALK**  
8.50 Athlone: Meeting of new Dail.  
**LAST NEWS BULLETINS, see Monday**  
**DANCE MUSIC**  
8.0 Kalundborg; 10.0, Stockholm, Warsaw; 10.15, Oslo; 10.20, Vienna; 10.25, Regional; 10.30, Breslau, etc.; 10.40, Brussels 1; 11.0, Munich, National; 11.5, Kalundborg; 11.15, Brussels 2; 11.30, Turin.

**HAMBURG**, Concert (contd.).  
**HILVERSUM** (1,875 m.), Cabaret, 9.40—News; Records. **HILVERSUM** (301.5 m.), Choir, etc. (contd.); at 9.40—News.  
**KALUNDBORG**, Reading; Dance Band. **KÖNIGSBERG**, "Inge — or The Story of a Mannequin" — Play (Felix).  
**LEIPZIG**, News, 9.10—"Care-free and Sunburnt" — Variety. Fricke Band, etc. **LILLE**, To be announced.  
**MOSCOW**, Czech Programme. **MUNICH**, News, 9.10—"Grün ist die Heide"—Hermann Löns Sequence (Hugin).  
**OSLO**, Orchestra, 9.40—News.  
**PARIS (PTT)**, Sketch (contd.), 9.30—Hamelin Clarinet Quartet, Pauline Gordon (Pfte.), Cathelat (Tenor). **POSTE PARISIEN**, News, 9.10 — Sketch, 9.55 — News. **PRAGUE**, Comedy (contd.), 9.15—See Brno, 9.55 —Record.  
**RADIO - NORMANDIE**, Concert Version, "Madame Butterfly" (Puccini). **RADIO-PARIS**, "La Reine Fiammette" (contd.); at 9.30—News. **ROME**, "The Sleeping-Car Steward" (Alegiani).  
**SOTTENS**, Concert (contd.).  
**STOCKHOLM**, Bellman Choir, 9.15 — Reading, 9.45 — News.  
**STRASBOURG**, Orchestra (contd.). **STUTTGART**, News, 9.15—"As you like it" — Station Sketch Book (arr. Ganss). Orchestra, Roswaenge (Tenor), etc.  
**TOULOUSE**, Concert (contd.), 9.10—Music, 9.35—Talk, 9.50 —Paris Programme. **TURIN**, "Purificazione" — Play (Rocca), 9.30—Symphony Concert.  
**VIENNA and MONTE CENERI**, Bruckner Festival (contd.).  
**WARSAW**, Chopin Polonaises by Szpinalski (Pfte.), 9.45—"Cracow"—Word Pictures (Balucki).

**11 p.m.**  
**BRESLAU, BERLIN, HAMBURG, KÖNIGSBERG and STUTTGART**, Dance Band.  
**BRUSSELS (1)**, César Franck Records. **BRUSSELS (2)**, Records (contd.), 11.15 — Dance Band. **BUDAPEST (1)**, News (French, Italian), 11.10—Cigány Band.  
**FRANKFURT, COLOGNE, DEUTSCHLANDSENDER**, Band, etc.  
**HILVERSUM** (1,875 m.), Records. **HILVERSUM** (301.5 m.), Records; Bible Reading.  
**KALUNDBORG**, 11.5 — Dance Band.  
**LEIPZIG**, Variety (contd.).  
**MOSCOW**, For Germany. **MUNICH**, Dance Orchestra. Conductor: Stimmler.  
**PRAGUE**, News (French).  
**RADIO - NORMANDIE**, Café Concert. **ROME**, News, 11.15 —News (English), 11.30—Dance Music.  
**STRASBOURG**, News (German).  
**TOULOUSE**, Light Music, 11.50 —Notes. **TURIN**, News, 11.50 —Dance Music.  
**VIENNA**, Dance Music.

## 12 midnight

**BUDAPEST (1)**, 12.5—News. **KALUNDBORG**, Dance Band.  
**MOSCOW (1)**, For Spain.  
**RADIO - NORMANDIE**, Light Music, 12.30—Dance Music.  
**STUTTGART and FRANKFURT**, Concert (Recorded).  
**COLOGNE** Station Orchestra, Zime-long (Hron), Haagen (Pfte.), Knoll (Tenor). (Schumann, Brahms).

**MONTE CENERI**, 7.45—News.  
**MOSCOW**, Opera, **MUNICH**, "Schwäbische-bayerische Dirndl — Juchei!" — Dialect Play with Music. (Hofbauer-Schneider-Schweiger).  
**OSLO**, News, 7.30—For Farmers, 7.40—Nordsjö (Songs).  
**PARIS (PTT)**, News, 7.45 — Report. **POSTE PARISIEN**, News, 7.25 — Records, 7.40 — Report, 7.55 — Humour.  
**PRAGUE**, News, 7.10 — Talk, 7.20—Light Orchestral.  
**RADIO-NORMANDIE**, Concert, 7.40 — News. **RADIO-PARIS**, Lecture-Recital: Seventeenth and Eighteenth Century Harpsichord Music, 7.30 — Louisiana Folk Songs to Guitar, 7.45 — Chopin Pfte. Music. **ROME**, Talk (German); Light Music; Notes, 7.53 —News in Foreign Languages.  
**SOTTENS**, Talk, 7.10 — Story, 7.20 — Talk, 7.30 — Music, 7.45 — News, 7.55 — See Beromünster. **STOCKHOLM**, Talk, 7.15 — News, 7.30 — Dance of the Instruments, Dance Band. **STRASBOURG**, News, 7.45—Report.  
**TOULOUSE**, Music, 7.15—News, 7.40 — Music, 7.50 — Variety Concert from the Salle Pleyel, Paris. **TURIN**, Orchestra, 7.40 — News in Foreign Languages.  
**VIENNA**, News, 7.25 — Talk with Records.  
**WARSAW**, Records: London Symphony Orchestra, Conductor: Barbirolli, 7.50—Sports.

**LILLE**, For Gardeners, 8.10—Operetta Music, 8.30—To be announced.  
**MOSCOW**, Opera. **MUNICH**, Play (contd.).  
**OSLO**, 8.5—Talk, 8.30—Orchestra.  
**PARIS (PTT)**, News, 8.10—Musical Kaleidoscope on Records, 8.30—"La Vieille chez Mac-loum Bûcheron de Sologne"—Sketch (Danjou). **POSTE PARISIEN**, Topical, 8.5—La bonne histoire, 8.20—Songs, 8.35 — Records, 8.50 — Talk.  
**PRAGUE**, "Little Love in a Great City"—Comedy (Weisz).  
**RADIO-NORMANDIE**, Records, 8.20—Variety, 8.40—Potpourri of Serenades and Polkas. **RADIO-PARIS**, Review, 8.15—Talk, 8.30—"La Reine Fiammette" (Leroux). Noyon Choirs and Orchestra. Conductor: Wolff.  
**ROME and TURIN**, News in Foreign Languages, 8.10—News, 8.30—Government Notes.  
**SOTTENS**, See Beromünster, 8.40 —Report, 8.45—Request Concert —Radio Suisse romande Orchestra. **STOCKHOLM**, Report, 8.45—Bellman Choir. **STRASBOURG**, News (German, French), 8.20—Records, 8.45—Strasbourg Municipal Orchestra from the Orangerie (Chabrier, Monfeillard, Chausson).  
**TOULOUSE**, Concert (contd.).  
**VIENNA and MONTE CENERI**, 8.5—Bruckner Festival, Vienna Philharmonic from the Festhalle, Linz. Conductor: Kabasta (Bruckner, Schmidt).  
**WARSAW**, Concert from Łódź, 8.45—News.

**8 p.m.**  
**ATHLONE**, 8.5—Orchestra, Soprano, 8.50—Description: Meeting of The New Dail.  
**BERLIN**, News, 8.10—Orchestra.  
**BEROMUNSTER**, Light Chamber Music, 8.40 — To be announced. **BRESLAU**, Variety

**9 p.m.**  
**ATHLONE**, 9.5—Caledonian Male Voice Choir, 9.30—Variety.  
**BERLIN**, "Men in the Moon" —Comedy (Unger) (Recorded).



WEDNESDAY (July 21)

NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45 (D)—Cinema Organ. 11.15 (D)—Records. 12.0 noon (D)—BBC Welsh Orchestra: Robert Davies (Bass-Baritone). 1.0 p.m. (D)—The Teversal Colliery Band: Alec John (Tenor). 1.45 (D)—Records. 2.15 (D)—Quintet. 2.45 (D)—Records. 3.30 (D)—Edna Iles (Pfte.). 4.0 (D)—Evensong from St. Paul's Cathedral. 4.50 (D)—Records. 5.0—Coming of Age of the National Federation of Women's Institutes: Lady Denman. 5.15—Dance Orchestra. 6.0—The First News. 6.20—BBC Theatre Organ. 7.0—BBC Orchestra (Section C): Valentina Aksarova (Soprano). 7.40—"Training the Racehorse"—Tom Walls. 8.0—"Nikki Makes News": Radio play with music. 8.45—Melodies sung by Tessa Deane and Jan van der Gucht. 9.0—Third News. 9.20—Short talks on common nuisances. 9.25—Henry Ley (Organ). 10.0—Serge Krish Septet. 10.30—"Summer over the British Isles". 11.0—Douglas Swallow's Band. 11.30-12.0—Swing Time Records.

REGIONAL

For Time Signals, see Monday. 10.15 a.m. (ex. Western, Welsh)—National. 10.15 (Welsh)—Welsh Service. 10.30-10.45 (ex. Western)—National. 10.45 (ex. Western)—Records. 11.15 (ex. Western)—Cinema Orchestra. 12.0 noon (ex. Western)—Octet. 12.30 p.m. (ex. Western)—Dance Records. 1.15 (ex. Western)—Theatre Orchestra. 2.5 (Scottish)—Herring Bulletin. 2.15 (ex. Western)—Reginald West (Organ). 3.0—"Far and Near". 3.15 (ex. Western; Welsh 4.0)—BBC Northern Orchestra. 3.15 (Welsh)—The Unveiling Ceremony of the Memorial Plaque at Bridgend Library to Richard Price and John Thomas. 4.15 (ex. Western)—Orchestra. 5.0 (ex. Western)—Children's Hour. 5.0 (Western)—National. 6.0 (Regional, Northern, Midland)—Recitals. 6.0 (Welsh)—Glyn Samuel's Band. 6.0 (N. Ireland)—Records. 6.0 (Scottish)—Gwendolen McGill (Cello). 6.15 (Scottish)—Gardening talk. 6.30 (Welsh)—The Royal Welsh Agricultural Show. 6.30 (N. Ireland)—J. H. Chambers (Baritone); Tina Bonifacio (Harp). 6.35 (Scottish)—Thomas McKay (Accordion). 6.45 (Regional, Scottish)—"Domestic Drama"—Kevin Fitzgerald. 6.45 (Midland)—Talk. 6.45 (Northern)—Short Story. 6.50 (N. Ireland)—Story in Verse. 7.0 (ex. Western)—Second News. 7.20 (ex. Western)—Regional Announcements. 7.30 (ex. Western)—Music from the Movies. 8.0 (ex. Welsh)—Week by Week. 8.0 (Welsh)—Sam a Simon. 8.20 (Regional, Midland)—BBC Midland Orchestra. 8.20 (Northern)—BBC Northern Orchestra. 8.20 (Western)—Records. 8.20 (Welsh)—BBC Welsh Septet. 8.20 (N. Ireland)—Bangor Night. 8.20 (Scottish)—Scottish Dances. 8.30 (Western)—Concert party. 8.50 (Scottish)—Holiday Revue. 9.0 (ex. Western, Scottish)—Speedway Racing: England v. Overseas. 9.0 (Western)—Leslie Rogers (Saxophone); Albert F. Gillett (Pfte.). 9.20 (Regional, N. Ireland)—BBC Military Band. 9.20 (Midland)—Orchestra. 9.20 (Northern, Western, Scottish)—A day in the life of a travelling circus. 9.20 (Welsh)—Dolan Evans (Mezzo). 9.40 (Welsh)—Plymlymmon. 10.0 (ex. Western)—News Summary. 10.25 (ex. Western)—Douglas Swallow's Band. 11.30 (ex. Western)—Late News Summary. 11.40-12.0 (ex. Western)—Records.

Hours of Transmission in British Summer Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—Military Band Records. 6.15—Jack MacGarvey (Guitar). 6.35—Irish News Feature. 6.45—News. 7.0—Act IV, "Aida" (Verdi). 7.35—"A Glimpse of Holland" by Herr Jules Schlesinger. 7.50—"Taking the Family out" by Paddy Fox (Entertainer). 8.5—Radio Orchestra. Conductor: Lieut. J. M. Doyle. Edith Delaney (Soprano). 8.50—Meeting of the New Dail—a Description. 9.5—Caledonian Male Voice Choir. 9.30—Variety. 10.30—News. 10.45—Irish Concert from Budapest. 11.0—National Anthem.

BARCELONA (EAJI) (Spain)

795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News; Records. 10.30—Play; at 11.0—Time; News. 12.0 m't.—1.0 a.m. (Thursday)—News (Italian, German, French, Portuguese).

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Stuttgart. 2.0 p.m.—News; Records. 3.0-4.0—Busch Band. 4.30—"Komödianten-Geschichten" (Paul Ernst). 5.0—Songs (Hans Sommer) by Hauschild (Baritone). 5.15—Chamber Music. Pfte. Trio (Mozart). Allegro in B flat for Pfte., Violin and Cello (Schubert). 5.40—Report (Recorded): Hitler Youth Camps. 6.0—Bund Band. 7.0—Evening Echoes. 7.20—Hans Emmé Schuhardt (Tenor), Raven (Accordion). 8.0—News. 8.10—Station Orchestra, Conductor: Willy Steiner. 9.0—"Men in the Moon"—Comedy (Unger). 10.0—News. 10.30-12.0 m't.—See Breslau.

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 6.15-6.35 a.m.—Gym. 12.0 noon—Records. 12.30 p.m.—News. 12.40-1.30—Records. 4.30—For Women. 5.0—Orchestral Records. 5.10—Records: Völker (Tenor). 5.20—Chamber Music. 6.0—For Children. 6.30—Music. 6.40—Talk in Dialect. 7.0—News. 7.15—Unfamiliar Viola Music. 7.45—News. 7.55—Light Chamber Music. 8.40—To be announced. 9.25—Bork (Pfte.). 10.15—Weather; Tourist Report. 10.25-10.30—News.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 8.0 p.m.—"The Sexton of Bratislava"—Folk Play. 8.35—Three Rhapsodies (Florent Schmitt) by Sylvia Macudzinska and R. Macudzinski (Pftes.). 9.0—Talk. 9.15—See Brno. 9.55-10.20—See Prague. 10.20—News (Hungarian). 10.35-11.0—Records.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 5.0 a.m. 12.0 noon—Orchestra. 2.0 p.m.—News; Records. 3.30—Talk by Graf Luckner. 4.0—See Deutschlandsender; at 5.0—Books. 6.0—Story. 6.20—Pollack (Pfte.). 6.45—Talk: Garibaldi. 6.55—Programme Notes; Markets. 7.0—"All about Love"—Variety Programme; at 7.45—Topical. 9.0—"Engine-Driver Heilmann"—Play (Troppenz). 10.0—News. 10.30-12.0 m't.—Station Dance Band, Conductor: Günther.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 4.10 p.m.—Station Orchestra. Conductor: Plichta. 4.50—See Prague. 5.5—Orchestra (contd.). 5.40—German Transmission:

"Eichendorff"—Play (Zeissel). 6.15—Records. 6.35—For Workers. 6.45-9.15—See Prague. 9.15—Septet in D minor (Hummel). 9.55-11.0—See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; Gym; News. 9.0—Records. 10.0—Jongen Pfte. Music. 10.30—Records. 10.45—Amelie Pauwels (Violin). 11.15—Light Belgian Music. 12.0 noon—Records. 12.30 p.m.—Shipping. 12.31—Light Belgian Music. 1.0—Homing-Pigeon Notes; News. 1.10—Light Belgian Music. 1.30—Records. 2.0—Art Notes; Records. 2.15—Interlude. 2.30—Baeyens (Cello). 3.0—Records: Light Belgian Music. 3.50—Rachel Piette (Songs). 4.0—Records. 5.0—Fashion Notes. 5.5—Felleman Orchestra from Blankenberghe Kursaal. 6.0—"The Accession of Leopold I"—Historical Play (Temmerman). 7.0—Records. 7.15—For Ex-Servicemen; Sports; For Motorists. 7.30—News. 8.0—Light Belgian Music. Conductor: Souris. Derissen (Cello). Marche inaugurale (De Boeck). Fantasia (Verhoveen). Suite in the Old Style (Gillon). Elegy (Collin). Scherzo (Souris). Mirologue (Marsick). Aphrodisies (Bosmans). Triomphe d'Aphrodite (Jongen). 9.0—Concert from Ostende Kursaal. 10.30—News. 10.40—Brenders Dance Band. 11.0-12.0 m't.—César Franck Records.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.37-9.0 a.m.—Records; Gym; News. 9.0—Records, Part I: Flemish Songs and Verse. Part II, Variety. 10.0—Alexys Orchestra. 11.0—Quartet in F (Haydn) on Records. 11.15—Joos (Organ), Van Beveren (Songs). 12.0 noon—Records. 12.30 p.m.—Belgian Music. Conductor: Féron. 1.0—News. 1.10—Belgian Music. Conductor: Douliez. 1.30-2.0—Records. 2.15—Light Orchestral. 3.0—Records. 3.15—Light Orchestral. 4.0—Records. Inscriptions (Gaubert). Pfte. Concerto in A minor (Grieg). 4.45—Talk. 5.0—For Young People. 6.0—Records. 6.45—Protestant Address. 7.0—Records. 7.30—Tourist Report. 8.0—Belgian Music—Radio Orchestra, etc. Conductor: Douliez. Overture, "Tartuffe" (La Gye). Improvisation and Cadence (Saeye). Angelica (Waeyenbergh). Danse des feux-follets (Benoit). Serenade (Gillon). Intermezzo (Maes). Suite phrygienne (Brussemans). 8.45—Talk. 9.0—Concert from the Casino, Knocke. Conductor: Candaël. Clara Clairbert (Songs). Flemish Rhapsody (Schoemaker). Songs. Excerpts, "The Song of Songs" (Candaël). Songs. Fantasia on a Walloon Folk Song (Ysaye). 10.0—Review. 10.40—Records. Cello Concerto in B flat (Boccherini) with Pau Casals. Slav Dances (Dvořák). 11.15-12.0 m't.—Brenders Dance Band.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania (Brasov), 160 kc/s (1,875 m.). Transmits at intervals from 5.30 a.m. 6.3 p.m.—Sibiccano Orchestra. 7.30—Talk. 7.50—Operetta Records. 8.30—Chamber Music by the Jiano Wind Ensemble. 9.5—Emilia Gutziano (Romanian Songs). 9.30—Sports; News. 9.45—Radio Salon Orchestra. Conductor: Teodoru. 10.45—News (French, German, Romanian).

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. 12.5 p.m.—Gabi Belle (Songs). 12.45—News. 1.0—Salon Orchestra. 2.40—News. 4.15—Science Talk. 5.0—Talk: Palaeology. 5.30—Records. 6.10—Talk with Records: Hungarian Folk-Music. 6.45—Bela Melles Orchestra. 7.30—Report: The Hungarian-Polish Regatta.

7.45—"Don Quixote de la Mancha" Three-Act Play (Cervantes-Bárdos). 8.50—News. 9.30—Opera Orchestra, Conductor: Rajter. 10.0—Irish Evening. 11.0—News (French, Italian). 11.10—Ráczy Cigány Band. 12.5 a.m. (Thursday)—News.

BUDAPEST (No. 2) (Hungary)

359.5 kc/s (834.5 m.); 18 kW. 6.10 p.m.—Records. 7.15—Talk: The Hungarian National Museum. 7.45—Melles Orchestra.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.50 a.m. 12.0 noon—Band. 1.0 p.m.—News. 1.15—See Stuttgart. 2.0—News. 2.15—Variety from Deutschlandsender. 3.0-3.30—For Children. 3.45—Industrial News. 4.0—Genealogy. 4.30—Music from Deutschlandsender; at 5.0—Periodicals. 6.0—Story (Britting). 6.20—Kirchner Music by Grete Heukeshoven (Violin), Schänzler (Cello), Rummel and Steinkrüger (Pfte.). 7.0—"Samsouci" Male Voice Quartet of Rheydt, Fritzsche (Flute) and Wessel (Harp). 7.45—Snapshot. 8.0—News. 8.10—"The Poet, Friedrich Wilhelm Weber"—Memorial Concert from Bad Hermannsborn. Members of the Berg Provincial Orchestra, Conductor: Schulz-Dornburg. Schneider (Baritone), Riethmüller (Pfte.), Castelle (Speaker). 9.0—"Petermann fährt nach Madeira"—Folk Play (Hinrichs). 10.0—News. 10.30-12.0 m't.—See Frankfurt.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Breslau. 1.45—News. 2.0—Variety. 3.0—Announcements; Records. 4.0—Light and Viennese Music; at 5.0—Story. 6.0—Lueder (Pfte.). 6.25—Reading. 6.45—Sports Report from Norway (Recorded). 7.0—"Evening Moods"—Kate Köhl (Speaker), Scholz (Pfte.) and Records. 7.45—Topical. 8.0—News. 8.10—Band. 9.0—Music of the Nations—Roos Band. 10.0—News. 10.30-10.45—Ruthström (Violin). Anita von Hillern-Dunbar at the Pfte. Andante sostenuto (Sjöberg). Romance (Alfvén). Swedish Folk Dances (Fusella). 11.0-12.0 m't.—Music from Frankfurt.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 6.0 a.m. 12.0 noon—See Stuttgart. 2.0 p.m.—News. 2.10—Variety from Deutschlandsender. 3.0-3.15—Industrial News. 4.0—See Königsberg. 6.0—Topical Talks. 7.0—Opera, Operetta and Light Music. Station Orchestra and Male Voice Choir, Conductor: Merten; Hauck Band, Hildegard Strube (Soprano), Bergmann (Baritone), Hartung (Tenor), Kulmann (Pfte.). 9.0—News. 9.15—"Frankfurt-am-Main"—Sequence (Betzner). 10.0—News. 10.20—Comrade, where are you? 10.30—Hauck Band. Heinemann (Cello), Hauck (Saxophone). 12.0 m't.—1.0 a.m. (Thursday)—See Stuttgart.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.45 a.m. 12.0 noon—Orchestra. 1.0 p.m.—Topical. 1.15—See Stuttgart. 2.0—News. 2.15—Music. 3.0—Shipping. 3.15—Industrial News. 3.25—Ballet Records. 4.0—Bands; Reports in the intervals. 6.0—Talks. 6.15—Henny Wolf (Soprano). 6.45—Shipping. 7.0—The Dance of the Instruments—Station Dance Band, Conductor: Gebhardt. Felix (Commentator). 7.45—Topical. 8.0—News. 8.10—Familiar Melodies—Concert from Saarbrücken. Saarbrücken Station Orchestras, Conductors: Jung and Kasper, Karolus (Baritone), Niederau (Zither), Eitz (Guitar), the Saar Singers and Maria Fougner (Pfte.). 10.0—News. 10.30-12.0 m't.—See Breslau.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. 7.40-9.40 a.m.—VARA Programme. 7.40—Records. 9.10—Dietetics. 9.40—VPRO Service. 10.0 a.m.—6.10 p.m.—VARA Programme. 10.0—Concert. Bouwmeester (Recitations), VARA Ensemble, and Records. 11.40—Steyn (Organ). 12.40-1.25 p.m.—The Melody Circle. Conductor: Wins. 1.40—The "Flüerflüiter." Conductor: v.d. Horst. v. Dongen (Songs). 2.25—Records. 3.10—For Children. 5.10—Records. 5.55—Talk. 6.10—RVU Talk. 6.40—VARA Programme: Tiggers (Songs). 7.10—VPRO Talk. 7.45 till Close—VARA Programme. 7.45—News. 7.55—Concert by "Fantasia." Conductor: Walis. 8.40—Cabaret. 9.40—News; Records. 10.0—VARA Orchestra. Conductor: Lohoff. 10.55-11.40—Records.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m. NCRV Programme. 7.40 a.m.—Bible Reading; Meditation; Records; Sacred Music. 8.10—Records; at 9.10—Greetings. 10.10—Religious Programme. 10.40—Van der Horst Ensemble; at 11.40—News; Records. 1.10 p.m.—Records. 1.40—Children's Choirs. Conductor: Kruihof. Mlle M. v. d. Kooy (Pfte.). In the interval, Records. 2.40—Reading. 3.10—Records. 3.25—Sacred Airs by de Heer (Songs) and Verver (Violin). 4.25—Greetings. 4.40—For Children. 5.40—Records. 6.10—Talks; News; Report. 7.40—News. 7.55—Concert by a Women's Choir, String Orchestra and Organ. Conductor: v. d. Hurk; at 8.40—Talk; and at 9.40—News. 10.10-11.40—Records; Bible Reading.

KALUNDBORG (Denmark)

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—Julian Orchestra. 2.50 p.m.—Radio Orchestra. Conductor: Grøndahl. Edi Laider (Songs). 4.50—Wireless News. 5.0—Talk: The Beauties of Nature. 5.25—Weather; Exchange; Markets. 5.50—Records of Thibaud (Violin). 6.0—Anna Egelund Detleisen (Songs). 6.20—Talk. 6.35—Talk: Between Seasons. 7.0—News. 7.30—For Farmers. 8.0—Preil's Dance Band; Reading in the interval. 10.0—News. 10.20—Reading. 10.45—Italian Music by Minna Poulsen (Violin) and Esther Vagnig (Pfte.). Adagio in F (Corelli-Busch). Sonata in D (Corelli). 11.5 p.m.—12.30 a.m. (Thursday)—Lynge Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg) (Germany)

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—See Stuttgart. 2.0—News; Talks. 3.40—Variety. 4.0—Orchestra. 6.0—Topical. 6.25—French Opera Records. Overture, "Masaniello" (Auber). Excerpts, "Carmen" (Bizet), "Rose de France" (Romberg), "Mignon" (Thomas). "The Fair Maid of Perth" (Bizet), "Faust" (Gounod), "Fra Diavolo" (Auber); at 6.50—Topical. 7.30—Comrade, where are you? 8.0—News. 8.10—Peter Anzo and the Börschel Band. 9.0—"Inge" or "The Story of a Mannequin"—Play (Felix). 10.20—News. 10.30-12.0 m't.—See Breslau.

LAHTI (Finland)

166 kc/s (1,807 m.); 150 kW. Relayed by Helsinki, 895 kc/s (335.2 m.). Transmits at intervals from 7.5 a.m. 5.0 p.m.—For Children. 5.50—News (Finnish, Swedish). 6.15—Tamm (Estonian Songs). 6.40—Talk. 7.10—Putilin (Balalaika and Domra). Balalaika: (a) Polish Song (Benatzky). (b) Two Russian Songs (Kraszew). Domra: (a) Wie einst in schönen Tagen (Popper). (b) Song (Glazunov).



7.35 — Records: Dallapé Dance Band. 8.45 — News (Finnish, Swedish). 9.10 — Helsinki Theatre Orchestra. Conductor: Blomstedt. 10.0-11.0 — Records.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). Transmits at intervals from 5.50 a.m. 12.0 noon — Band. 1.0 p.m. — News. 1.15 — See Stuttgart. 2.0 — News; Records. 3.10 — Talk. 3.40 — Books. 4.0 — Orchestra. 6.0 — Art Notes. 6.10 — Talk. 6.30 — Elly Hartwig-Correns (Contralto), Burgert (Pfte.). 6.50 — Science and Progress. 7.0 — Topical. 7.15 — "The Pusztá" — Hungarian Life in Words and Music. Leipzig Symphony Orchestra and Station Choir, Conductor: Kretzschmar, Sissy von Barany (Violin), Höllger (Baritone), Stech and Haentschel (Pftes.), Gaspar (Cymbalom), and Speakers. Racoczy Overture (Keler-Bela). Hei, die Pusztá! (Steinbach). Czardas, Uyra. Dance Song, Hej! haj! Magyar! Recitation: On Hortobagy Moor (Gaal). Overture, "Hary Janos" (Kodály). Folk Song, Einst hatt' ich ein Rösslein (Arr. Korbay-Kranz). Recitation: With the Pusztá Herdsman (Vitkovits). Hungarian Fantasia (Liszt). Recitation: Die Heideschenke (Lenau). Zigeunermusik (Pataky). War ein schöner junger Bursch (arr. Kranz). Racoczy March (Berlioz). Ungarland (Steinbach). Hungarian Rhapsody (Liszt). Excerpt, "The Gipsy Baron" (Strauss). Drei Zigeuner (Liszt). Buda-Pest, Stadt der Lichter (Steinbach). Ungar bin ich! (Petöfi). Hymn (Kretzschmar-Meister). 9.0 — News. 9.10-12.0 m.t. — "Carefree and Sunburnt" — Variety with the Fricke Band, etc.; at 10.30 — News.

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m. 6.30 p.m. — Brasserie Orchestra, Conductor: Capoulade. Roses from the South (Strauss). Ouvre tes yeux bleus (Massenet). Die Porzellanpuppe (Lincke). Sere-nade. En sordine (Tellam), Marechiare (Tosti). The Mill in the Black Forest (Eilenberg). 7.0 — News. 7.30 — Economic and Social Notes. 7.45 — Report: The Cycle Tour of France. 8.0 — For Gardeners. 8.10 — Operetta Music. 8.30 — To be announced. 10.30 — News.

LILLE (Radio PTT Nord) (France)

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 7.0 p.m. — News. 7.30 — Economics. 7.45 — Report: The Cycle Tour of France. 8.0 — Talks. 8.30 — See Paris (Eiffel Tower). 10.30 — News.

LYONS (PTT) (France)

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 7.0 p.m. — News. 7.30 — Economics. 7.45 — Report: The Cycle Tour of France. 8.0 — Talks. 8.30 — See Paris (Eiffel Tower). 10.30 — News.

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. 12.0 noon — Records. 12.30 p.m. — News. 12.40-1.30 — Records: Donizetti, Rossini and Offenbach Music. 5.0-6.0 — See Beromünster. 7.45 — News. 8.5-10.10 — See Vienna. In the interval, Talk: Debussy.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW. 5.30 p.m. — Concert. 6.0 — Talk. 6.30 — Opera. 9.0 — Czech Programme. 9.55 — Kremlin Chimes. 10.5 — English Talk: The Stalin Constitution — The Red Army. 11.0 — For Germany. 12.0 m.t. — 1.0 a.m. (Thursday) For Spain.

MUNICH (Germany)

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 — Trumpeter Corps. 1.0 p.m. — News; Records. 2.0-3.0 — See Deutschlandsender. 4.0 — For Farmers. 4.15 — Station Quintet and Brandes (Songs). 4.55 — Talk. 5.15 — Schneider Band. 6.45 — Talk. 7.0 — "Schwäbische-bayerische Dirndl — Juchhei!" — Dialect (Hofbauer-Schneider). Music arranged by Schweiger. 9.0 — News. 9.10 — Grün ist die Heide — Hermann Löns Sequence (Irmtraut Hugin). 10.0 — News.

10.20 — Ernst Gesänge (Brahms) by Augsburg Municipal Choir and String Orchestra (Recorded). 11.0-12.0 m.t. — Augsburg Dance Orchestra.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 11.10 a.m. 5.30 p.m. — Café Concert. 6.25 — For Children. 6.50 — News. 7.30 — Time; For Farmers. 7.40 — Nordsjö (Songs). Die beiden Grenadiere (Schumann). Jeg havde mig en hjærtenskjaer (Sinding). La Serenata (Tosti). Song of the Volga Boatmen (Chaliapin - Koenemann). Song (Clutsam). 8.5 — Talk. 8.30 — Station Orchestra. Conductor: Kramm, Overture, Heimkehr aus der Fremde (Mendelssohn). Suite bergamasque (Debussy). Ane pa Torp (Olsen). Rhapsody in B minor (Brahms). Les Préludes (Liszt). 9.40 — News. 10.0 — Topical. 10.15-11.0 — Dance Records.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 11.35 a.m. 8.0 p.m. — Television. 8.30 (also Lyons (PTT)) — "Boule de suif" — Three-Act Play (de Maupassant-Metenier); "Les fourmis" — One-Act Play (Jeanson), by the "Art et Travail" Players.

PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon — Exchange. 12.5 p.m. — New Records. 12.35 — Exchange. 12.39 — Records of the Boulanger Cigány Band. 12.45 — Song. 1.0 — Amateur Detective Competition. 1.15 — Records of Georgius. 1.30 — Martha Eggerth Records. 1.45 — Overture, "William Tell" (Rossini) (Recorded). 2.0, 3.45 — Exchange. 4.15 — Report: The Cycle Tour of France. 4.35 and 6.0 — Exchange. 6.5 — Jewish Programme. 6.15 — Monteverdi Records. 6.53 — Racing Results. 6.55 — Sports. 7.0 — News. 7.25 — Records of Reda Claire and Suzy Solidor. 7.40 — Report: The Cycle Tour of France. 7.55 — Humour. 8.0 — Topical. 8.5 — "La bonne Histoires" 8.20 — Nadia Mirova (Songs). 8.35 — Records of Jeanne Pierly. 8.50 — Talk. 9.0 — News. 9.10 — Sketch (Diamant-Berger). 9.55 — News. 10.0 — Chamber Music. 10.30-11.0 — Variety Records.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 2.30 p.m. — Concert for the Blind. In the interval: "Le Geniometre" — Burlesque (Ragusa-Germinet). 3.30 — Light Music from Vichy Casino. 4.30 — Reading (Princess Bibesco). 4.45 — Talk: Travel. 5.0 — Records; at 5.15 — Reading. 5.40 — Medical Talk. 5.55 — Talk. 6.0 — Mme. Rey-Gaufres (Pfte.). 6.15 — Nelly Borello (Songs). 6.30 — Records: Light Music. 7.0 — News. 7.45 — Report: Cycle Tour of France. 8.0 — News. 8.10 — Musical Kaleidoscope on Records. Valse Caprice (Rubinstein). Die Spinnerin (Mendelssohn). Caudros (Laparra). Tango (Albeniz). Prelude (Rachmaninov). Prelude (Chopin). Fête bohème (Massenet). Le petit berger (Debussy). Ronde des Lutins (Bozzini). Au bord d'une source (Liszt). Bourrée fantasque (Chabrier). 8.30 — "La Veillée chez Maclou, Bûcheron de Sologne" — Sketch (Danjou). 9.30 — Hamelin Clarinet Quartet, Pauline Gordon (Pfte.), Cathelart (Tenor). Variations on Russian Folk Themes. Songs: (a) Ariette (Legrenzi), (b) Cantata (Porpora), Pfte. Sonata (Haydn). Chants de Cymos (Tomasi). Quartet in E flat (Allen). 10.30 — U.S.A. Bulletin. 10.45-11.0 — News.

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW. Time Signals at 12.30 p.m., 8.30 p.m., and 10.45 p.m. 6.50 a.m. — Records; at 7.0 — Gym. 7.30 — Press Review. 8.0-8.30 — Records. 10.0 — Records: Composer-Conductors. 11.0 — Records: Famous Choirs. 11.30 — Records: Light Music. 11.50 — Music Talk

by Mme. Landowska. 12.0 noon — Garde Républicaine Band, Conductor: Dupont. 12.15 p.m. — Talk: Morocco. 12.30 — Band (contd.). 1.15 — Ruellan (Songs). 1.30 — News; Review by Divoire. 1.45 — Band (contd.). 2.0 — Records. 2.15 — Monique Lagrange (Poems). 2.30 — Records: Chamber Music. 3.0 — "L'affaire de la rue de Lourcine" — One-Act Play (Labiche-Monnier-Martin). 3.30 — Mlle. Brullez (Songs). 3.45 — Viola Concerto (Handel) by Mlle. Martinet. 4.0 — Talk. 4.13 — Reading (Delarue-Mardrus). 4.20 — The Humorous Press. 4.30 — Science Talk. 4.45 — Books. 5.0 — Orchestra, Conductor: Pascal. 6.0 — For Young People. 6.15 — Talk: Flaubert. 6.30 — Talk: Reporters. 6.45 — Talk: The French Theatre. 7.0 — Lecture-Recital: Seventeenth and Eighteenth Century Harpsichord Music. 7.30 — Louisiana Folk Songs by Mlle. Ryna to Guitar Accompaniment. 7.45 — Chopin Music by Simone Jacson (Pfte.). Prelude in B minor. Mazurka in F sharp minor. Two Waltzes. Two Etudes. 8.0 — Political Review. 8.15 — Talk: Descartes. 8.30 — "La Reine Fiammette" (Leroux). Noyon Choirs and Orchestra, Conductor: Wolff; at 9.30 — News. 10.30 — Records: Rivers. 10.45-11.0 — News.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 4.10 p.m. — See Brno. 4.50 — Talk. 5.5 — See Brno. 5.40 — Records: Bossi Organ Music. 6.0 — For Farmers. 6.5 — German Transmission: Talk; For Workers; Economics. 6.45 — News (German); Record. 7.0 — Time; News. 7.10 — Talk. 7.20 — Light Orchestra, from Moravská-Ostrava. 8.0 — "Little Love in a Great City" — Comedy (Weisz), Czech Transl. by Kalinová. 9.15 — See Brno.



Exclusive "World-Radio" Picture Mademoiselle Courtin, who takes the part of "Pantasilée" in "La Reine Fiammette" at Radio-Paris at 8.30 p.m.

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m. — Military Band. 7.0 — News. 7.45 — Records. 8.0 — Light Music. 8.30 — Records. 8.45 — Melodies. 9.0 — Dance Music. 9.15 — Favourite Melodies. 9.30 — Light Music. 9.45 — Alfredo Campoli and his Orchestra. 10.0 — Light Music. 10.15 — Records. 10.30 — Popular Music. 10.45 — Light Music. 11.0 — Light Classical Music. Spanish Symphony (Lalo). Prelude, Aria, and Finale (Franck). Ballad in G minor (Chopin). 12.0 noon — Operetta Music. 12.20 p.m. — Concert; at 12.35 — News. 2.0 — Records. 2.30 — Report: The Paris Exhibition. 2.45 — Light Music. 3.0 — Melodies. 3.15 — Light Music. 3.30 — Records. 3.45 — Light Music. 4.0 — Records. 4.30 — Light Music. 5.45 — Current London Productions. 6.0 — Children's Corner.

6.45 — Talk; News; Racing. 7.0 — Concert. 7.40 — News. 8.0 — Records of Jean, Jac, and Jo. 8.20 — Variety. 8.40 — Potpourri of Serenades and Polkas. 9.0 — Concert Version, "Madame Butterfly" (Puccini). 11.0 — Café Concert. 12.0 m.t. — Midnight Melodies. 12.30-1.0 a.m. (Thursday) — Dance Music.

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon. 9.10 p.m. — Weather (Icelandic, German, English). 9.20 — Light Music. 9.55 — Announcements. 10.0 — Time; News. 10.30 — Talk. 10.55 — Radio Orchestra. 11.30 — Cello Sonata in A minor (Grieg).

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Naples, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m. — News. 5.15-5.50 — Enza Motti-Messina (Soprano), Havas (Baritone). 6.50 — For Motorists. 7.0 — Talk (German) — Light Music; Announcements. 7.53 — News in Foreign Languages. 8.10 — News. 8.30 — Government Notes. 9.0 — "Il controllore dei vagoni letto" (The Sleeping-car Steward) (Alegiani). Conductor: Fasano. Talks in the intervals. 11.0 — News. 11.15 — News (English). 11.30-11.50 — Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.30 p.m. — News. 12.40-1.30 — See Monte Ceneri. 5.0-6.0 — See Beromünster. 6.0 — French Music — Radio Suisse romande Orchestra. Conductor: Appia. Ballet "Henry VIII" (Saint-Saëns). Danse des Sylphes (Berlioz). Chansons populaires (Ingelbrecht). Soirs (Schmitt). Excerpts, "Ramuntcho" (Pierne). 7.0 — Talk. 7.10 — Story. 7.20 — Talk. 7.30 — Music. 7.45 — News. 7.55 — See Beromünster. 8.40 — Report: The Cycle Tour of France. 8.45 — Request Concert. Radio Suisse romande Orchestra. Conductor: Haug. 10.0-10.30 — Song Records.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.5 p.m. — Women's Vocal Trio. 5.30 — Reading. 5.50 — Records. 6.45 — Talk. 7.15 — News. 7.30 — Dance of the Instruments — Potpourri by the Radio Dance Band. 8.0 — Report. 8.45 — Bellman Choir. Conductor: Lundvik. Demuntramusikanterna (Riccius). Långtan (Söderman). Margit (Lundvik). Songs (Bellman): (a) Hör, I. Orfei drängar, (b) Fjällin vinnig syns pa Haga, (c) Ulla, min Ulla, (d) Böjlan sig mindre rör, (e) Fader Berg i hornet stöter, (f) Vem är som ej var broder minns. 9.15 — Reading. 9.45 — News. 10.0-11.0 — Lardny Dance Band from Skansen.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 5.45 p.m. — Concert from Montpellier (PTT). 6.30 — Records: Basque Melodies. 7.0 — News. 7.30 — Economic and Social Notes. 7.45 — Report: The Cycle Tour of France. 8.0 — News (German). 8.7 — News. 8.20 — Records. 8.45 — Strasbourg Municipal Orchestra from the Orangerie. Conductor: Munch. Overture, "Gwendoline" (Chabrier). Orchestral Suite. Zarail (Monfeuillard). Symphony in B flat (Chausson). 10.30 — News. 11.0 — News (German).

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 12.0 noon — Orchestra, etc. 1.0 p.m. — News. 1.15 — Orchestra, etc. (contd.). 2.0-3.0 and 4.0-6.0 — See Deutschlandsender. 6.0 — Topical. 7.0 — See Frankfurt. 9.0 — News. 9.15 — "As you Like it" — Station Sketch Book (arr. Ganss) with the Station Orchestra, Helge Roswaenge (Tenor), Schmitt-Walter (Baritone), Strienz (Bass), Schimmer (Violin), Herold and Giesen (Pftes.). 10.0 — News. 10.30 — Portuguese Music from Lisbon.

WEDNESDAY (July 21)

11.0 — Dance Music from Breslau. 12.0 m.t. — 1.0 a.m. (Thursday) — Concert (Recorded). Cologne Station Orchestra. Conductor: Schulz - Dornburg, Zimolong (Horn), Haagen (Pfte.), Knoll (Tenor). Adagio and Allegro for Horn and Pfte. (Schumann). Songs (Schumann): (a) Sehnsucht, (b) Die Weinde, (c) Erinnerung, (d) Kurzes Erwachen, (e) Gesanges Erwachen, (f) Anna. Third Symphony (Brahms).

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.30 a.m. 6.0 p.m. — Orchestra. 6.15 — Songs. 6.35 — Film Music. 6.50 — News; Sports. 7.0 — Operetta Music. Excerpts, "Katinka" (Lajtai), "La petite Bohème" (Hirschmann), "Le Jardinier du Roi" (Walrence), "Madame Pompadour" (Fall). 7.15 — News. 7.40 — Light Music. 7.50 — Variety Concert from the Salle Pleyel, Paris. 9.10 — Excerpts, "White Horse Inn" (Stolz-Benatzky). 9.35 — Talk. 9.50 — Paris Programme. 10.20 — Orchestra. 10.35 — Operetta Airs, "Phi-Phi" (Christine), "Ignace" (Dumas), "Oh mon bel inconnu" (Hahn), "Véronique" (Messager). 10.50 — Orchestral. 11.0 — Musical Comedy Music. 11.15 — Orchestra. 11.35 — Light Music. 11.50 — Announcements.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Milan (No. 4), etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m. — News. 5.15-5.50 — Dance Music. 6.50 — See Rome. 7.0 — Cetra Orchestra. 7.40 — News in Foreign Languages. 8.10 — Time; News. 8.30 — Government Notes. 9.0 — "Purificazione" — One-Act Play (Rocca). 9.30 — Basilica di Massenzio, Concert. Conductor, Bellezza Overture, "La cambiale di matrimonio" (Rossini). Scheherazade (Rimsky - Korsakov). Largo (Mule). Recitative and Rondo (Alfano). Finale, Act III, "Arabella" (Strauss). Overture, "The Mastersingers" (Wagner). Talk in the interval. 11.0 — News. 11.30-11.55 — Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.45 a.m. 5.30 p.m. — Contemporary Austrian Composers. Otti Santera (Soprano), Adler (Violin), Zechner (Pfte.). Songs (Baselli). Sonata (Herold). 6.20 — Talk: Austria. 6.40 — An Aviator's Adventures in the Far East. 7.0 — News. 7.25 — Talk with Records. 8.5 — Bruckner Festival, Vienna Philharmonic from the Festhalle, Linz. Conductor: Kubasta. Third Symphony (Bruckner). Symphony in E flat (Schmidt). 10.10 — News. 10.20 — Station Dance Band. 10.45 — Talk in Dutch: A Walking Tour of Austria. 11.0-11.30 — Dance Music (contd.).

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m. 12.3 p.m. — News. 12.15 — For Farmers. 12.25-1.0 — Tramway-men's Band. 3.45 — Economics. 4.0 — Literary Programme. 4.15 — Songs of Silesia by the Katowice Men's Choir. Conductor: Janicki. 4.45 — Talk. 5.0 — Zwaizek Orchestra. 5.50 — Talk. 6.0 — Educational. 6.10 — Programme Notes. 6.15 — Georges Boulanger plays his own Music (Recorded). 6.50 — Topical. 7.0 — Records of the London Symphony Orchestra. Conductor: Barbirolli. 7.50 — Sports. 8.0 — Concert from Helenów Park, Łódz. Conductor: Pietruszka. March (Blankenburgh). Selection, "The Tsarevitch" (Lehár). Max and Moritz (Zimmer). Tales from the Vienna Woods (Strauss). 8.45 — News; Topical. 9.0 — Polonaises in A major, B flat minor, C sharp minor, B flat major, C minor and A flat (Chopin), by Szpinalski (Pfte.). 9.45 — "Cracow" — Word Pictures (Balucki). 10.0 — Station Dance Band. Conductor: Górzváski. 10.50 — News.



# THURSDAY July 22

## 4 p.m.

**BRESLAU**, Dance Band, etc.  
**COLOGNE**, Open Air Concert.  
**DEUTSCHLANDSENDER, FRANKFURT and STUTTGART**, Band.  
**HAMBURG**, Light Orchestral. **HILVERSUM** (1,875 m.), 4.40—Play for Children.  
**KÖNIGSBERG**, Light Orchestral.  
**LEIPZIG**, Dresden Orchestra. Soprano, Cello, Pfte.  
**RADIO-PARIS**, 4.45—"Chatterton"—Play (de Vigny).  
**WARSAW**, 4.15—Forgotten Melodies—Schrammel Quartet. 4.45—Talk.

## 5 p.m.

**ALPES - GRENOBLES**, Cécile Chaminade Concert. Orchestra, Songs. **ATHLONE**, 5.30—Commentary from the Clonmel Horse Show. 5.50—Records.  
**BERLIN**, Choral and Flute Music. 5.30—Talk. 5.45—Report. **BRESLAU**, Dance Band, etc. **BRUSSELS** (1), Records. 5.30—For Children. **BRUSSELS** (2), Orchestra; Records. 5.45—For Children. **BUDAPEST** (1), Talk. 5.30—Budapest Concert Orchestra.  
**COLOGNE**, Orchestra. 5.30—Reading.  
**DEUTSCHLANDSENDER, FRANKFURT, STUTTGART**, Story; Band.  
**HAMBURG**, Light Orchestral. 5.15—Variety. **HILVERSUM** (1,875 m.), Play (contd.). 5.10—Kovacs Lajos Orchestra. **HILVERSUM** (301.5 m.), Tenor, Pfte. 5.40—Records.  
**KÖNIGSBERG**, Light Orchestral. 5.35—East Prussian Songs and Dances.  
**LEIPZIG**, Notes; Orchestra, etc. (contd.).  
**MOSCOW**, 5.30—Music.  
**MUNICH**, 5.15—Light Orchestral.  
**OSLO**, 5.15—Records.  
**PARIS (PTT)**, Josse Orchestra.  
**RADIO-PARIS** Play (contd.).  
**ROME**, News. 5.15—Pfte. 5.55—Talk.  
**SOTTENS** and **BEROMÜNSTER**, Cigány Band. **STRASBOURG**, See Alpes-Grenobles. 5.45—For Women.  
**TURIN**, News. 5.15—Soprano, Tenor. 5.55—Talk.  
**VIENNA**, 5.30—Provažnik Songs. 5.45—Sonata (Beethoven).  
**WARSAW**, Songs, Violin. 5.50—Sports.

## 6 p.m.

**ATHLONE**, Records. 6.15—Debate in Irish. 6.35—News.  
**BERLIN**, Opera Records. **BEROMÜNSTER**, 6.45—Talk. **BRESLAU**, "Peter Paul Rubens"—Sequence (Dames), Music by Wirth. 6.40—Fairy Tale. 6.50—Notes. **BRUSSELS** (1), Talk. 6.15—Records. **BRUSSELS** (2), For Children. 6.30—Song Records. 6.45—Talk. **BUCHAREST** and **RADIO-ROMANIA**, 6.3—Chopin Records. 6.45—Dance Records. **BUDAPEST** (1), Orchestra (contd.). 6.40—Talk with Records.  
**COLOGNE**, Wind Band.  
**DEUTSCHLANDSENDER**, Songs, Violin, Pfte. 6.30—A visit to the SA Riding School.  
**FRANKFURT**, Topical.  
**HAMBURG**, Reports. 6.25—Talk. 6.45—Notes. **HILVERSUM** (1,875 m.), Orchestra (contd.). 6.10—Talk. 6.40—Organ, Songs. **HILVERSUM** (301.5 m.), Records; Talk.  
**KÖNIGSBERG**, Talks. 6.50—Topical.  
**LEIPZIG**, Talk. 6.20—Liszt Pfte. Music. 6.50—Talk.  
**MOSCOW**, Talk. 6.30—Music and Literature. **MUNICH**, Light Orchestral. 6.15—Songs, Music. 6.40—Topical.  
**OSLO**, Service. 6.25—Grieg Songs. 6.50—News.  
**PARIS (PTT)**, Organ (Bach, Franck). 6.30—Songs (Schubert, Brahms). 6.45—Poetry.  
**PRAGUE**, 6.5—German Talks. 6.45—News (German).  
**RADIO-PARIS**, Play (contd.). 6.30—Talks.  
**SOTTENS**, For Women. 6.20—Cigány Band. **STRASBOURG**, Reading (German). 6.15—Re-

ports. 6.30—Variety Concert from Marseilles (PTT). **STUTTGART**, Topical.  
**VIENNA**, Talks.  
**WARSAW**, 6.5—Talk; Notes. 6.15—Records. 6.50—Topical.

## 7 p.m.

**ATHLONE**, Mouth Organ. 7.10—"The Bribe" (Seamus O'Kelly).  
**BERLIN**, Evening Echoes. 7.20—Raatzke Quintet. **BEROMÜNSTER**, Report. 7.10—Old Music. Violin, Guitar. 7.30—Talk. 7.45—News. 7.55—Dance Records.  
**BRESLAU**, Old Classical Music—Harpischord, Violin, Cello. 7.45—Topical. **BRUSSELS** (1), For Workers. 7.15—Records. 7.30—News. **BRUSSELS** (2), 7.3—Records. 7.30—Review. **BUCHAREST** and **RADIO-ROMANIA**, Dance Records. 7.55—Talk. **BUDAPEST** (1), Talk (contd.). 7.35—Orchestra.

## PRINCIPAL EVENTS

**SYMPHONY CONCERTS**  
7.55 Hilversum (1,875 m.): Classics.  
8.30 Radio-Paris: "Messiah" (Handel).  
9.0 Prague: Mozart, Kienzl.  
9.15 Brussels 1: D'Indy, Brusselmanns.  
9.20 National: Sargent; Saint-Saëns.  
**LIGHT CONCERTS**  
12.30 Radio-Paris: André Orchestra, songs.  
2.50 Kalundborg: Hansen Ensemble.  
4.0 Cologne: Open air concert.  
5.10 Hilversum (1,875 m.): Lajos Orch.  
7.0 Munich: Operetta music.  
7.25 Vienna: Military Band.  
7.50 Prague: Variety concert.  
8.0 Brussels 2: Belgian, Viennese, music.  
8.0 Kalundborg: Folk music.  
8.10 Königsberg: Contemporary music.  
8.15 Warsaw: Light and dance music.  
8.30 Athlone: Schumann programme.  
9.0 Budapest 1: Cigány Band.  
9.15 Beromünster: Light classics.  
9.15 Frankfurt: Schumann music.  
9.25 Vienna: Operetta and dance music.  
9.40 Hilversum (1,875 m.): Serenade.  
10.15 Stockholm: Military Band.  
10.30 Deutschlandsender: Haydn.  
**OPERAS**  
9.0 Rome: Two Respighi operas.

**COLOGNE**, Orchestra (Dvořák, Tchaikovsky, etc.). 7.45—Snapshots.  
**DEUTSCHLANDSENDER**, Variety Concert. 7.45—Choir, Pfte.  
**FRANKFURT**, Valentinade (Records). Hellmuth Andrae.  
**HAMBURG**, The Bremen Stadtmusikanten, Soprano. 7.45—Topical. **HILVERSUM** (1,875 m.), Organ, Songs. 7.25—Talk. 7.40—News. 7.55—Orchestra, Violin, Cello, Pfte. (Mozart, Bach, Haydn, etc.). **HILVERSUM** (301.5 m.), Talk; Notes; Report. 7.40—News. 7.55—Mandoline Band.  
**KALUNDBORG**, News. 7.30—Talk. **KÖNIGSBERG**, Records with Peter Arco and Hans Hellhof. 7.45—Topical.  
**LEIPZIG**, Topical. 7.10—Military Band.  
**MONTE CENERI**, 7.45—News. 7.55—Records. Folk Music.  
**MOSCOW**, Music and Literature. **MUNICH**, Concert. Part I, Operetta Music from Strauss to Lehár; Part II, Dance Band, Schrammel Ensemble.  
**OSLO**, News. 7.30—Record; Talk.  
**PARIS (PTT)**, News. 7.45—Report. **POSTE-PARISIEN**, News. 7.20—Records. 7.35—Talk. 7.40—Report. 7.55—Les Frères Jacasse. **PRAGUE**, News. 7.10—Variety Concert from Moravská-Ostrava. 7.50—Variety Concert.  
**RADIO-NORMANDIE**, Concert. 7.40—News. **RADIO-PARIS**, 7.3—Violin. 7.30—Pfte. 7.45—Songs. **ROME**, Talk in Spanish; Music; Sports. 7.53—News in Foreign Languages.  
**SOTTENS**, For Gardeners. 7.10—Talks. 7.30—Music. 7.45—News. **STOCKHOLM**, 7.15—News. 7.30—Talk. **STRASBOURG**, News. 7.30—Economics. 7.45—

Report. **STUTTGART**, Records.  
**TUBIN**, Light Orchestral. 7.40—News in Foreign Languages.  
**VIENNA**, News. 7.25—Military Band.  
**WARSAW**, "The Old Shop-Boy"—Play after Prus (Huluewicz). 7.52—Topical.

## 8 p.m.

**ATHLONE**, "The Bribe" (contd.). 8.10—Talk. 8.30—Schumann—Orchestra, Soprano, Violin.  
**BEEILIN**, News. 8.10—Dance Music. **BEROMÜNSTER**, Dance Records. 8.35—"Die Hochzeit von Didingen"—Play (Aeby). **BRESLAU**, News. 8.10—Silesian Folk Music.  
**BRUSSELS** (1), I.N.R. Symphony Orchestra, Songs. **BRUSSELS** (2), Concert from Turnhout. I.N.R. Radio Orchestra, Songs, Trombone. 8.45—Talk.  
**BUCHAREST** and **RADIO-ROMANIA**, Talk. 8.15—Orchestra. **BUDAPEST** (1), Orchestra. 8.40—News.  
**COLOGNE**, News. 8.10—Orchestra, Pfte.  
**DEUTSCHLANDSENDER**,

Band. 8.45—Talk. **STRASBOURG**, News (German). 8.7—News. 8.15—For Farmers (German). 8.30—Records. **STUTTGART**, Records.  
**TOULOUSE**, Light Music.  
**TURIN**, News in Foreign Languages. 8.10—News. 8.30—Talk. 8.45—Light Music.  
**VIENNA**, Military Band. 8.40—Songs and Dance Music.  
**WARSAW**, Sports. 8.15—Light and Dance Music; at 8.45—News.

## 9 p.m.

**ATHLONE**, Orchestra, etc. (contd.). 9.30—Variety.  
**BERLIN**, "Der Klaviertransport" (Krause) (Recorded); Dance Music. **BEROMÜNSTER**, Play (contd.). 9.15—Music (Haydn, Mozart, Strauss). **BRESLAU**, Music (contd.). **BRUSSELS** (1), Talk; Orchestra, etc. (contd.); Record. **BRUSSELS** (2), Viennese Music from Turnhout. 9.50—Pater noster (Wiertz). **BUCHAREST** and **RADIO-ROMANIA**, Orchestra. 9.30—News. 9.45—Café Concert. **BUDAPEST** (1), Cigány Band. 9.45—Talk.

9.5 Sottens: "Orphée" (Gluck).  
10.5 Budapest 1: "La Bohème" (rec.).

**OPERETTAS**  
8.30 Eiffel Tower: "La Périchole."  
8.30 Hamburg: Dialect Operetta.  
9.0 Regional: "Nikki Makes News."

**CHAMBER MUSIC**  
8.5 Sottens: Mozart programme.  
9.45 Hilversum (1,875 m.): Chamber orch.  
10.35 Kalundborg: Quartet (Dalberg).

**RECITALS**  
6.0 Paris (PTT): Organ, song, poetry.  
6.20 Leipzig: Liszt pfte. music.  
6.40 Hilversum (1,875 m.): Organ, song.  
6.55 Stockholm: Icelandic songs.  
9.5 Stockholm: Song, pfte.  
12.0 Frankfurt, Stuttgart: Organ (Buxtehude), violin (Bruch).

**PLAYS**  
4.45 Radio-Paris: "Chatterton."  
7.10 Athlone: "The Bribe" (O'Kelly).  
8.30 Paris (PTT): "Fedora" (Sardou).  
9.0 Turin: "Lasciate fare a William."

**LAST NEWS BULLETINS**, see Monday  
**DANCE MUSIC**  
7.55 Beromünster; 10.25, Regional; 11.0, Deutschlandsender; 11.5, Kalundborg; 11.10, Hilversum (1,875 m.); 11.15, National.

**COLOGNE**, Report. 9.10—Dance Records.  
**DEUTSCHLANDSENDER**, Orchestra (contd.).  
**EIFFEL TOWER**, "La Périchole" (Offenbach).  
**FRANKFURT**, Records.  
**HAMBURG**, News. 8.10—Folk Music. 8.30—"Spöök op'n Spieker"—Operetta (Deiters). Music (Gimatis). **HILVERSUM** (1,875 m.), Orchestra, etc. (contd.). **HILVERSUM** (301.5 m.), Mandoline Band. 8.40—Talk; Records.  
**KALUNDBORG**, The Island of Funen—Folk Dances, Recitations, Readings. 8.40—A Visit to Marselisborg Boys' Camp. **KÖNIGSBERG**, News. 8.10—Contemporary Light Music.  
**LEIPZIG**, Military Band.  
**LILLE**, 8.30—Orchestra, Soprano, Tenor.  
**MONTE CENERI**, Records (contd.). 8.30—"L'Onomastic"—Comedy (Calamona). **MOSCOW**, Concert (contd.). **MUNICH**, Concert (contd.).  
**OSLO**, Glaser (Violin). 8.30—Topical.  
**PARIS (PTT)**, News. 8.10—Records. 8.30—"Fedora"—Play (Sardou). **POSTE-PARISIEN**, Topical. 8.5—La bonne histoire. 8.20—Records. 8.35—Fashions. 8.38—If I won the Three Millions—8.50—Talk.  
**PRAGUE**, Variety Concert. 8.40—"Czechoslovakia's Valleys and Mountains"—Sequence.  
**RADIO-NORMANDIE**, Opera and Operetta Music. 8.40—Records. **RADIO-PARIS**, Home and Foreign Affairs. 8.15—Reading. 8.30—"The Messiah"—Oratorio (Handel).  
**ROME**, News in Foreign Languages. 8.10—News. 8.30—Talk.  
**SOTTENS**, Report. 8.5—Mozart Concert. **STOCKHOLM**, Cigány

**TOULOUSE**, Light Music. 9.50—Paris Programme. **TURIN**, "Lasciate fare a William"—Play (Gandino).  
**VIENNA**, Songs and Dance Music. 9.25—Orchestra, Soprano, Violin.  
**WARSAW**, Music (contd.). 9.45—"Cracow"—Word Pictures (Balucki).

## 10 p.m.

**ATHLONE**, Variety. 10.30—News.  
**BERLIN**, News. 10.30—See Stuttgart. **BEROMÜNSTER**, Music (contd.). 10.15—Report. 10.30—News. **BRESLAU**, News. 10.30—See Stuttgart.  
**BRUSSELS** (1), News. 10.10—Dance Band. **BRUSSELS** (2), News. 10.10—Records: The Magic Flute (Mozart). **BUCHAREST** and **RADIO-ROMANIA**, Café Concert. 10.45—News (French, German, Romanian). **BUDAPEST** (1), 10.5—Records: "La Bohème" (Puccini).  
**COLOGNE**, News. 10.30—Sentimental Music.  
**DEUTSCHLANDSENDER**, News. 10.30—Divertimento in G (Haydn).  
**EIFFEL TOWER**, "La Périchole" (contd.).  
**FRANKFURT**, News. 10.30—See Stuttgart.  
**HAMBURG**, News. 10.20—Brazilian Bulletin. 10.30—See Stuttgart. **HILVERSUM** (1,875 m.), Orchestra, etc. (contd.). 10.40—News. 10.50—Records. **HILVERSUM** (301.5 m.), Orchestra (contd.).  
**KALUNDBORG**, News. 10.20—From the Dragar Revue. 10.35—Quartet in G minor (Nancy Dalberg). **KÖNIGSBERG**, News. 10.20—Accordion.  
**LEIPZIG**, Play (contd.). 10.30—News. 10.50—Music from Stuttgart. **LILLE**, Orchestra, etc. (contd.). 10.30—News.  
**MOSCOW**, 10.5—For France.  
**MUNICH**, News. 10.20—To be announced. 10.30—See Stuttgart.  
**OSLO**, Topical. 10.15—Records: "Il Trovatore" (Verdi).  
**PARIS (PTT)**, Play (contd.). 10.30—News. 10.45—Records.  
**POSTE-PARISIEN**, 10.5—News. 10.10—Report. 10.30—Records. **PRAGUE**, News. 10.20—Records.  
**RADIO-NORMANDIE**, Paris Programme. **RADIO-PARIS**, Oratorio (contd.). 10.30—Records. 10.45—News. **ROME**, Respighi Operas (contd.).  
**SOTTENS**, "Orpheus" (contd.).  
**STOCKHOLM**, Talk. 10.15—Military Band. **STRASBOURG**, "La Voix du Désert" (Bergeaud), in memory of Charles de Foucauld. 10.30—News. **STUTTGART**, News. 10.30—Baden Provincial Orchestra, Dance Band, from Mannheim.  
**TOULOUSE**, Paris Programme. 10.20—Light Music. **TUBIN**, Play (contd.). 10.20—Orchestra. 10.45—Dance Music.  
**VIENNA**, Orchestra, etc. (contd.); at 10.10—News. 10.45—News.  
**WARSAW**, Brahms Records. 10.50—News.

## 11 p.m.

**BRUSSELS** (1), Dance Band.  
**BUDAPEST** (1), Records (contd.).  
**DEUTSCHLANDSENDER**, Dance Records.  
**HILVERSUM** (1,875 m.), Records. 11.10—Dance Band.  
**HILVERSUM** (301.5 m.), Orchestra (contd.). 11.10—Records; Bible Reading.  
**KALUNDBORG**, 11.5—Dance Band.  
**MOSCOW**, For Spain.  
**RADIO-NORMANDIE**, Paris Programme. **ROME**, Operas (contd.). 11.10—News in English. 11.15—Dance Music.  
**STRASBOURG**, News (German).  
**STUTTGART** and **MOST GERMAN STATIONS**, Orchestra, Band (contd.).  
**TOULOUSE**, Light Music. 11.50—Notes. **TURIN**, News; Dance Music.  
**VIENNA**, Orchestra, etc. (contd.).  
**WARSAW**, News.

## 12 midnight

**BARCELONA**, News (Italian, German, French, Portuguese).  
**BUDAPEST** (1), 12.5—News.  
**FRANKFURT** and **STUTTGART**, Serenade. Part I: Buxtehude Organ Music. Part II: Violin Concerto in G minor (Bruch).  
**KALUNDBORG**, Dance Band.  
**MOSCOW**, For Spain.  
**RADIO-NORMANDIE**, Midnight Melodies. 12.30—Dance Music.



NATIONAL

For Time Signals, see Monday.

- 10.15 a.m. (D)—Service.
10.30 (D) Weather Forecast.
10.45 (D)—"At Home Today."
11.15 (D)—Records.
11.45 (D)—BBC Welsh Orchestra: Marguerita Hughes (Soprano).

REGIONAL

For Time Signals, see Monday.

- 10.15-10.45 a.m. (ex. Western)—National.
10.45 (ex. Western)—BBC Northern Ireland Orchestra: Albert V. Froggatt (Baritone).
11.45 (ex. Western)—Cinema Organ. 12.15 p.m.—Records.

Hours of Transmission in British Summer Time.

ALPES-GRENOBLE (PTT) (France)

583 kc/s (514.6 m.); 20 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Cécile Chaminade Concert by the Radio Orchestra, with Mlle Besneux-Gautheron (Songs).

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—Commentary from the Clonmel Horse Show. 5.50—Records of Tito Schipa (Tenor) and Casals ('Cello).

BARCELONA (EAJ1) (Spain)

795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News; Records; at 11.0.—Time; News. 12.0 m't.—1.0 a.m. (Friday)—News (Italian, German, French, Portuguese).

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 6.15-6.35 a.m.—Gym. 12.0 noon—Records. 12.30 p.m.—News. 12.40-1.30—Radio Orchestra. 4.30—For Invalids. 4.59—Time.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—Hungarian Transmission: Talks; 'Cello Sonata (Hummel). 6.45-7.10—See Prague. 7.10—Balan (Songs). 7.35—Talk. 7.50-9.0—See Prague. 9.0—See Brno. 10.0—See Prague. 10.20—News (Hungarian). 10.35-11.0—Records.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 5.0 a.m. 12.0 noon—See Frankfurt. 2.0 p.m.—News; Cinema Organ; Records. 4.0—Dance Band, etc. 6.0—'Rubens'—Sequence (Dames); Music by Wirth. 6.40—'Der fremde Steuermann'—Fairy Tale (Blunck). 6.50—Announcements.

7.0—Old Classical Music—Wenzel (Harpischord), Marga Wenzel (Violin), Becker ('Cello). 7.45—Topical. 8.0—News. 8.10—Silesian Folk-Music. Clarinet Band, Mandoline Band, Clarinet, Accordion, etc. 10.0—News. 10.30-12.0 m't.—See Stuttgart.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 5.40 p.m.—German Transmission: Talks; Records. 6.15—Sonatina (Koenig) by Anna Skalicka (Pfte.). 6.35—Labour Exchange. 6.45-9.0—See Prague. 9.0—Station Orchestra. Conductor: Bakala. 10.0-11.0—See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; News; Gym. 12.0 noon—Records. 12.30 p.m.—Shipping. 12.31—Salon Orchestra. 1.0—News. 1.10—Schnyders Orchestra. 1.30—Records. 2.0—Art Notes. 4.55—News. 5.0—Records. 5.30—For Children. 6.0—Talk. 6.15—Records. 7.0—For Workers. 7.15—Records: Spanish Folk Music. 7.30—News. 8.0—I.N.R. Symphony Orchestra. Conductor: André Flore Moulart-Maes (Songs). Spanish Rhapsody (Ravel). Saudades (Espla). Suite (Espla). Dances. 'El amor brujo' (Fallá). 9.0—Talk. 9.15—Symphonie sur un thème montagnard (d'Indy). Orchestral Suite on Paganini's Caprice (Brusselmans); Record. 10.0—News. 10.10-12.0 m't.—Brenders Dance Band.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.37-9.0 a.m.—Records; News; Gym. 12.0 noon—Records. 12.30 p.m.—Schnyders Orchestra. 1.0—News. 1.10—Salon Orchestra. Conductor: Féron. 1.30—Records. 2.0—Shipping. 4.55—News. 5.0—Salon Orchestra, Conductor: Féron, and Records. 5.45—For Children. 6.30—Records of Maartje Offers (Songs). 6.45—Talk. 7.0—Notes. 7.3—Records. 7.30—Art Review. 8.0—Concert from Turnhout—I.N.R. Orchestra, Conductor: Douliez. Loyens and Jenny Jungbauer (Songs). Nelis (Trombone). March (Robson-Brusselmans). Overture, 'José Maria' (Franz Andelhof). Eleyg (A. Andelhof). Songs. March solennelle (Verrees-Benoit). Concert Piece for Trombone (Verrees). Flemish Folk Song Potpourri (Walpot). 8.45—Talk: Turnhout Folklore. 9.0—Concert from Turnhout (cont'd.). Viennese Music, with Vocal Quartet. Overture, 'Die Fledermaus' (Strauss). Selection, 'Flower of Hawaii' (Abraham). Waltz (Strauss). Tales from the Vienna Woods (Strauss). Caprice viennois (Kreisler). Perpetuum mobile (Strauss). The Blue Danube (Strauss). 9.50—Our Father (Wiertz). 10.0—News. 10.10-11.0—Records: 'The Magic Flute' (Mozart).

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania (Brasov), 160 kc/s (1,875 m.). Transmits at intervals from 5.30 a.m. 6.3 p.m.—Chopin Records. 6.45—Dance Records. 7.55—Talk. 8.15—Radio Salon Orchestra. Conductor: Rogalski. 9.30—Sports; News. 9.45—Café Concert. 10.45—News (French, German, Romanian).

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. 12.5 p.m.—Stepat Balalaika Band; at 12.30—News. 1.30—Records. 2.40—News. 4.15—Fairy Tale (Kassay). 5.0—Talk: Miklos Feleki. 5.30—Budapest Concert Orchestra, Conductor: Fridl. 6.40—Talk with Records. 7.35—Salon Orchestra. 8.40—News. 9.0—Osóka Cigány Band. 9.45—Talk: Hungarian Excavations. 10.5—Records: 'La Bohème' (Puccini). 12.5 a.m. (Friday)—News.

BUDAPEST (No. 2) (Hungary)

359.5 kc/s (834.5 m.); 18 kW. 7.35 p.m.—Talk: Jakob Fellner. 8.5—Records. 9.0—Székely Jazz Band. 9.55—News.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.50 a.m. 12.0 noon—See Frankfurt. 2.0 p.m.—News. 2.15-3.0—Chamber Quintet, Lieselotte Mann (Contralto), Hoersch (Tenor) and Kirst (Pfte.). 3.45—Exchange. 4.0—Open-Air Concert. 5.30—Reading. 6.0—Wind Band. 7.0—Station Orchestra, Conductor: Kühn. Carnival Overture (Dvořák). Romance (Tchaikovsky). Dances (van den Berg). Excerpts, Märkische Suite (Kaun). Jubel-Walzer (Strauss). 7.45—Snapshots. 8.0—News. 8.10—Station Orchestra (cont'd.). Gerard Bunk (Pfte.). Comedy Overture (Scheinpflug). Pfte. and Orchestra: Tarantella (Bunk). Elgie bei Sonnenuntergang (Humperdinck). K o r s h o l m (Jämfelt). March, 'The Cid' (Cornelius). 9.0—Report from the 'Nation at Work' Exhibition, Düsseldorf. 9.10—Dance Records. 10.0—Time; News. 10.30—Sentimental Music of the Days of Gallantry. Elisabeth Kessemeier (Mezzo-Soprano), Fritzsche (Flute), Schäfers (Pfte.) and J. Lodenstein (Speaker). 11.5-12.0 m't.—Music from Stuttgart.



Hellmuth Andrae, who presents a special gramophone concert to Frankfurt listeners at 7 p.m.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg. 1.15 p.m.—Orchestra from Frankfurt. 1.45—News. 2.0—Variety. 3.0—Announcements; Records. 4.0—Rooz Band; at 5.0—Story. 6.0—Jilli (Songs), Morris (Violin), Klasen (Pfte.). 6.30—A Visit to the S.A. Riding School. 7.4—Variety. Mühlbeck Band, Fricke (Tenor), Lindner (Bass), Hahn (Pfte.). In the interval, Poems (Krug). 7.45—Chamber Choir, Conductor: Görner. Grauper (Pfte.). 8.0—News. 8.10—'Immortality'—a Dialogue about Hölderlin (Lützkendorf). 8.30—Station Orchestra. Guest Conductor: Veremans. Part I: Flemish Music, Overture, 'Milienka' (Blockx). Flemish March (de Boeck). Waltz, 'Carnival' (Opsomer). May Fires (van Hoof). Part II: German Music. Overtures, 'The Merry Wives of Windsor' (Nicolai), 'Die Fledermaus' (Strauss), 'Der Wildschütz' (Lortzing). Waltz Suite, 'Der Rosenkavalier' (Strauss). 10.0—News. 10.30-10.45—Divertimento in G (Haydn). Succo ('Cello), Albes at the Pfte. 11.0-12.0 m't.—Dance Records.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 6.0 a.m. 12.0 noon—Orchestra. 2.0 p.m.—News; Records. 3.0—Talk; Markets; For Children. 4.0—See Deutschlandsender. 6.0—Topical. 7.0—Hellmuth Andrae: 'Valentiniade' (Bavarian Records). 8.0—Records. 9.0—News.

THURSDAY (July 22)

9.15—Station Orchestra and Women's Choir. Conductor: Rosbaud. Part I: Eight Songs for Choir (Schumann), orchestrated by Pfitzner. Part II: Overture, 'Genoveva' (Schumann). 10.0—Time; News. 10.30—See Stuttgart. 12.0 m't.—1.0 a.m. (Friday)—Serenade. Part I: Buxtehude Music by Walcha (Organ). Part II: Violin Concerto in G minor (Bruch) (Recorded).

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.45 a.m. 12.0 noon—Orchestra. 1.0 p.m.—Topical. 1.15—Orchestra from Frankfurt. 2.0—News; Music. 3.0—Shipping, etc. 3.25—Rieger (Baritone). 4.0—Light Orchestral. In the interval, Talk. 5.15—Variety. 6.0—Reports from Youth Camps. 6.25—Reminiscences: The Battle of the Somme. 6.45—Shipping. 7.0—The Bremen Stadtmusikanten. Conductor: Krug. Erna Maria Müller (Soprano). Overture, 'Si j'étais Roi' (Adam). Waltz, Frühlingsstimmen (Strauss). Marche militaire (Schubert). Irish Folk-Song, The Last Rose of Summer. Solvejg's Song (Grieg). Arias, 'Rigoletto' (Verdi). Viliia's Song, 'The Merry Widow' (Lehár). Entr'acte, 'Carmen' (Bizet). 7.45—Topical. 8.0—News. 8.10—North German Folk Music. 8.30—Operetta in Dialect (Girmatis). 10.0—News. 10.20—Talk from Brazil. 10.30-12.0 m't.—See Stuttgart.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. AVRO Programme. 7.40 a.m.—Records. 9.40—Service. 9.55—Records—Recitations. 12.10 p.m.—AVRO Dance Band. 12.40—Kovacs Lajos Orchestra. 1.40—Recitations. 2.10—Variety. 3.40—For Hospitals. 4.10—Records. 4.40—Play for Children. 5.10—Kovacs Lajos Orchestra. 6.10—Sports Talk by Han Hollander. 6.40—Piet van Egmond (Organ) and Greetje Postuma (Songs). 7.25—Talk by J. Alving. 7.40—Time; News. 7.55—AVRO Orchestra. Conductor: van Raalte. Roth (Violin), Carel van Leeuwen Boomkamp ('Cello), and Leon Ortel (Pfte.). Symphony in D (Mozart). Violin Concerto in A minor (Bach). 'Cello Concerto in D (Haydn). Concerto alla Burla, for Pfte. and Orchestra (Ortel). 'Overture, 'Donna Diana' (Reznick). 9.10—Carillon. 9.40—Chamber Orchestra. Conductor: van Wielink; Choir; Betty v. d. Bosch-Schmidt (Soprano). Papillons (Roques-Gabriel-Marie). Serenade (Métra). La chanson de Florian (Godard). La vague (Métra). Dans un rêve (Missia). Piece (Granados). L'amour console (Simon). Bonita (Bronster). Fille du soleil (Bonincontrol). Selection, 'Les cent Vierges' (Lecocq-Gauwin'). 10.40—News. 10.50—Records. 11.10-11.40—AVRO Dance Band.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m. 7.40-8.55 a.m.—KRO Programme: Records. 9.40-10.40 — NCRV Programme: Records; Religious Programme; Records. 10.40 a.m.-1.40 p.m.—KRO Programme. 10.40—Records. 11.10—Religious Address. 11.40—Announcements; KRO Orchestra. Conductor: van 't Woud; at 12.40—Records; News. 1.40 till Close—NCRV Programme. 1.40—Hobbies. 2.40—Blauw (Organ). 3.25—Bible Reading. 4.25—For Young People. 4.55—Snoeks (Tenor), Mille Jansen (Pfte.). 5.40—Records; Talk; Announcements; Report. 7.40—Press Review. 7.55 (approx.)—Excelsior Mandoline Band. Conductor: Voerman. 8.40—Talk; Records. 9.35—Press Review. 9.45 (approx.)—'Ars nova et Antiqua'—Chamber Orchestra. Conductor: Gaillard. 11.10-11.40—Records; Bible Reading.



**THURSDAY (July 22)****KALUNDBORG (Denmark)**

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—Bendix String Ensemble. 2.50 p.m.—Hansen's Ensemble; at 3.40—Reading. 4.50—Wireless Notes. 4.56—Poem. 5.0—Reading. 5.25—Weather; Exchange; Markets. 5.50—Records. 6.20—Talk by a Ladies Hairdresser. 6.35—For Farmers. 7.0—News. 7.30—Talk: The Montessori Schools.

8.0—The Island of Funen—Folk Dances, Recitations and Readings. 8.40—A Visit to Mavaetsborg Boys' Camp.

9.40—Opera Arias by Magnus Andersen. Largo, "Xerxes" (Handel). Cavatina, "La Juive" (Halévy). Aria, "Eugene Onegin" (Tchaikovsky). Aria, "The Dusk of the Gods" (Wagner).

10.0—News. 10.20—From the Dragar Revue.

10.35—Quartet in G minor (Nancy Dalberg), by the Gerhard Rafn Quartet.

11.5 p.m.—12.30 a.m. (Friday)—Skjoldborg Dance Band; at 12.0 m't.—Chimes.

**KÖNIGSBERG (Heilsberg) (Germany)**

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—2.0 p.m.—See Frankfurt.

2.0—3.0—News; Talk; Records. 3.30—Hints. 3.40—Children's Choir.

4.0—Orchestra. 5.35—Songs and Dances. 6.0—Talk: Baltic Week at Pillau. 6.15—For Anglers. 6.50—Topical. 7.0—Records with Peter Arco and Hans Hellhof. 7.45—Topical. 8.0—News.

8.10—Contemporary Light Music. Station Orchestra. Conductor: Mayer. Körner (Baritone). Comedy Overture (Vogt). Scherzo (Unterholzner). Three Songs (Wolf): (a) Der Rattenfänger, (b) Bei einer Trauung, (c) Selbstgespräch. Three Orchestral Pieces based on German Folk Songs (Schäfer). German Waltz Suite (Grisch). Excerpts, Abendmusik (Katnig). Dance Fantasia (Zilcher).

10.0—News. 10.20—Accordion. 11.0—12.0 m't.—Music from Stuttgart.

**LEIPZIG (Germany)**

785 kc/s (382.2 m.); 120 kW.  
Relayed by Dresden, 1,285 kc/s (233.5 m.).

Transmits at intervals from 5.50 a.m. 12.0 noon—2.0 p.m.—See Frankfurt.

2.0—News; Records. 3.5—Talk. 3.20—Tyrolean Stories. 3.50—Talk from Brazil.

4.0—The Dresden Orchestra. Conductor: Webers. Marianne Thomass (Soprano). Kropholler (Cello). Wedding (Pfte.). 6.0—Talk. 6.20—Liszt. Music by Grundeis (Pfte.). Liebestraume, Rigoleto Paraphrase. Waldesrauschen. Second Hungarian Rhapsody.

6.50—Talk. 7.0—Topical. 7.10—Military Band. 9.0—News. 9.15—(from Dresden)—"Der Hochwald"—Play (Fortner). 10.30—News.

10.50—12.0 m't.—Music from Stuttgart.

**LILLE (Radio PTT Nord) (France)**

1,213 kc/s (247.3 m.); 60 kW.  
Transmits at intervals from 6.30 a.m. 8.30 p.m.—Station Orchestra. Conductor: Soret. Louise Cauchy (Soprano). Bernoville (Tenor). 10.30—News.

10.50—12.0 m't.—Music from Stuttgart.

**LYONS (PTT) (France)**

648 kc/s (463 m.); 100 kW.  
Transmits at intervals from 6.30 a.m. 8.30 p.m.—Sketch. 7.0—News. 7.30—Economics. 7.45—Report: The Cycle Tour of France. 8.0—Talks. 8.30—See Paris (Eiffel Tower). 10.30—News.

**MONTE CENERI (Switzerland)**

1,167 kc/s (257.1 m.); 15 kW.  
Transmits at intervals from 12.0 noon 7.45 p.m.—News. 7.55—Records: Folk Music.

8.30—9.30—"L'Opomastic"—Two-Act Comedy (Talamona).

**MOSCOW (No. 1) (Russia)**

172 kc/s (1,744 m.); 500 kW.  
5.30 p.m.—Music. 6.0—Talk. 6.30—Music and Literature. 8.0—Concert. 9.0—For Germany. 9.55—Kremlin Chimes. 10.5—For France. 11.0—1.0 a.m. (Friday)—For Spain.

**MUNICH (Germany)**

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—Band. 1.0 p.m.—News; Records.

2.0—See Deutschlandsender. 3.0—3.20—For Boys. 4.0—For Farmers. 4.15—Vocal and Instrumental. 4.55—Reading. 5.15—Orchestra. 6.15—Songs and Music. 6.40—Weather. 6.45—Topical.

7.0—"Schön ist die Welt"—Concert. Part I. Operetta Music from Strauss to Lehár. Orchestra. Conductor: Michalski. Melita Wittenbecher (Soprano), Engels (Tenor), and Speakers. Part II. Dance Music. 9.0—News.

9.10—Barylli (Violin). 9.40—Reading: "Alexander and Leonarda" (Hamsun). 10.0—News. 10.20—To be announced. 10.30—12.0 m't.—See Stuttgart.

**OSLO (Norway)**

260 kc/s (1,153.8 m.); 60 kW.  
Fredrikstad, etc. See Sunday.

Transmits at intervals from 11.10 a.m. 6.0 p.m.—Service. 6.25—Song Cycle, Haugtussa (Grieg), by Ingerid Traae Jerin. 6.50—News. 7.30—Time; Record. 7.35—Talk. 8.0—Glaser (Violin). 8.30—Topical.

9.0—Variety. 9.40—News. 10.0—Topical. 10.15—11.0—Records: "Il Trovatore" (Verdi).

**PARIS (Eiffel Tower) (France)**

1,456 kc/s (206 m.); 7 kW.  
Transmits at intervals from 11.35 a.m. 8.0 p.m.—Television. 8.30—"La Pêcholle" (Offenbach). Orchestra. Conductor: Labis.

**PARIS (Poste Parisien) (France)**

959 kc/s (312.8 m.); 60 kW.  
Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Records. 12.15—For Children. 12.35—Exchange. 12.39—Variety Concert. 1.10—Amateur Detective Competition. 1.15—Report: The Cycle Tour of France. 1.30—For Children. 1.40—Records: Ray Ventura Orchestra. 1.50—Film Notes. 2.0 and 3.45—Exchange. 4.15—Report: The Cycle Tour of France. 4.35 and 6.0—Exchange. 6.5—Hildegard Records. 6.15—Talk. 6.20—Records. 6.53—Racing Results. 6.55—Sports. 7.0—News. 7.20—Records. 7.35—Legal Talk. 7.40—Report: The Cycle Tour of France. 7.55—Les Frères Jacasse. 8.0—Topical. 8.5—"La bonne histoire." 8.20—Suite funambulesque (Messager) (Recorded). 8.35—Fashions. 8.38—"If I won the Three Millions . . ." with Pierre Bayle and Simonot. 8.50—Talk. 9.0—News. 9.10—"The Milky Way" with Dorin, Colline, Souplex, and Pierre Dac. 9.25—Cigány Band. 10.5—News. 10.10—Report from the Press Pavilion of the Paris Exhibition. 10.30—11.0—Variety Records.

**PARIS (PTT) (France)**

695 kc/s (431.7 m.); 120 kW.  
Transmits at intervals from 6.30 a.m. 5.0 p.m.—Josse Orchestra.

6.0—Ibos (Organ), from the Schola Cantorum. Passacaglia and Fugue (Bach). Choral in A minor (Franck).

6.30—Nelly Freval (Songs). Gretchen am Spinnrade (Schubert). Serenade (Schubert). Vergebliches Ständchen (Brahms).

6.45—Poetry. 7.0—News. 7.45—Report: The Cycle Tour of France. 8.0—News. 8.10—Records. 8.30—"Fedora"—Four-Act Play (Sardou), with Mme Simone in the title rôle. 10.30—News.

10.45—11.0—Records: Morning (Grieg). Le matin d'un jour de fête (Debussy). Le Soir (Gounod). Dimanche Matin (Massenet). Soir (Faure).

**PARIS (Radio-Paris) (France)**

182 kc/s (1,648 m.); 80 kW.  
Time Signals at 7.15 a.m., 8.30 p.m., and 10.45 p.m.

6.50 a.m.—Records; at 7.0—Gym.

**7.30—News. 8.0-8.30—Records.**

10.15—For Scouts. 10.30—For Women. 11.0—Records. 11.45—Protestant Address. 12.15 p.m.—Health Talk. 12.30—Light Music. Conductor: André. 1.15—Pasdoc (Songs). 1.30—News; Review. 1.45—Light Music (cont'd.). 2.0—Records: Slav Music. 2.30—Records: Shakespeare in Music. 3.0—Reading. 3.15—Talk: Modern Indo-China. 3.30—Talk: The Soviet Polar Expedition. 3.45—Andrée Grialys (Songs). 4.0—Reading. 4.15—Talks.

4.45—"Chatterton"—Three-Act Play (Alfred de Vigny). 6.30—Talks. 7.0—Markets. 7.3—Sottens (Violin). Sonata in A (Handel). Spanish Song (Sama-zeuilh). La Fontaine d'Aréthuse (Szymanowski). Gopak (Musorgsky).

7.30—Yvonne François (Pfte.). Jeux d'eau à la ville d'Este (Liszt). Asturias (Albeniz). Les Cavaliers d'El Aghar (Bernheim).

7.45—Renée Destanges (Songs). 8.0—Home and Foreign Affairs. 8.15—Readings (Zola).

8.30—(Also Bordeaux-Lafayette, Nice-Côte d'Azur and Montpellier). "Messiah"—Oratorio (Handel). National Orchestra, Choir, etc. Conductor: Raugel; at 9.30—News.

10.30—Records: Divertissement Louis XV (Tallieffere), Divertissement (Ibert). 10.45—11.0—News.

**PRAGUE (Czechoslovakia)**

638 kc/s (470.2 m.); 120 kW.  
Transmits at intervals from 6.0 a.m. 6.0 p.m.—Record. 6.5—German Transmission: Talk; For Farmers. 6.45—News and Review (German). 7.0—News. 7.10—Variety Concert from Moravská-Ostrava. 7.50—Variety Concert. 8.40—"Czechoslovakia's Valleys and Mountains"—Sequence.

9.0—Symphony Concert from Karlsbad—Municipal Orchestra. Conductor: Manzer. Pfte. Concerto in A (Mozart). Theme and Variations (Kienzi).

10.0—News. 10.20—11.0—Records.

**RADIO-NORMANDIE (France)**

1,113 kc/s (269.5 m.); 15 kW.  
6.45 a.m.—Records. 7.0—News. 7.45—Records. 8.0—Light Music. 8.30—Records. 8.45—Popular Music. 9.0—Dance Music. 9.15—Records. 9.30—Light Music. 9.45—Melodies. 10.0—Favourite Music. 10.15—Records. 10.30—Popular Music. 10.45—Light Music. 11.0—Film Music. 12.0 noon—Records of the Marceau Orchestra. 12.15 p.m.—Military Band. 12.35—News. 1.0—For Children. 2.30—Report: The Paris Exhibition. 2.45—Records. 3.0—Alfredo Campoli and his Orchestra. 3.30—Records. 3.45—Light Music.

4.0—Variety. 5.0—Records. 5.15—For Young People. 5.30—Records. 6.0—Light Orchestral. 6.45—Talk; News; Racing. 7.0—Concert. 7.40—News.

8.0—Opera and Operetta Music. Excerpts, "The Merchant of Venice" (Hahn). "Malvina" (Hahn). "Le voyage en Chine" (Gabriel-Marie), and "Les Brigands" (Offenbach).

8.40—Records of Pizzanelli and his Orchestra. 9.0—Variety. 10.0—Paris Programme. 12.0 m't.—Midnight Melodies. 12.30—1.0 a.m. (Friday)—Dance Music.

**REYKJAVIK (Iceland)**

208 kc/s (1,442 m.); 16 kW.  
Transmits at intervals from 12.0 noon. 9.10 p.m.—Weather (Icelandic, German, English). 9.20—Light Music. 9.55—Announcements. 10.0—Time; News. 10.30—Talk. 10.55—Instrumental. 11.20—Radio Orchestra.

**ROME (Italy)**

713 kc/s (420.8 m.); 50 kW.  
Naples, etc. See Sunday.  
Transmits at intervals from 7.45 a.m. 8.0 p.m.—News.

5.15—Gabriella Scala (Pfte.). Two Sonatas (Scarlatti). Two Captives (Brahms). Piece (Grieg). Habanera (Piañti). Scherzo (Prokofiev).

5.55—6.5—Talk. 6.50—Dopolaro Notes. 7.0—Talk in Spanish; Music; Sports. 7.53—News in Foreign Languages. 8.10—Time; News. 8.30—Talk. 9.0—Respighi Programme. Part

**I: "The Sleeping Beauty." Conductor: La Rosa Parodi. Cast: Jolanda Cirillo, Ugo Cantelmo, Emilio Renzi, Lina Aimaro, Ebe Ticozzi, Carlo Togliano, Luisa Garone and Liana Avogadro. Part II: Primavera. Conductor: Amfitatrof. Cast: Jolanda Cirillo, Emilio Renzi and Carlo Togliano. In the intervals, Talk; News. 11.10 (approx.)—News in English. 11.15 (approx.)—11.50—Dance Music.**

677 kc/s (443.1 m.); 100 kW.  
Relayed by Geneva, 401 kc/s (748 m.).

12.29 p.m.—Time; News. 12.40—1.30—Records.

5.0—Geza Gyallay Cigány Band from the Métropole. 6.0—For Women. 6.20—Cigány Band (cont'd.). 7.0—For Gardeners. 7.10—Books. 7.20—Talk: The Fourth International Air Rally at Zürich. 7.30—Music. 7.45—Announcements. 8.0—Report: The Cycle Tour of France.

8.5—Mozart Concert. Radio Suisse romande Orchestra. Conductor: Haug. Overture, "Don Giovanni." Ballet, "Les Petits riens." Divertimento for Wind Instruments. Serenade in D.

9.5—10.30—"Orphée" (Gluck). Paris Symphony Orchestra and Russian Choir. Conductor: Tomasi. Cast: Alice Raveau, Jany Delille and Germaine Féraldy.

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

Transmits at intervals from 7.45 a.m. 5.5 p.m.—Service. 5.30—Records. 6.30—Reading. 6.55—Icelandic Songs. 7.15—News. 7.30—Biology.

8.0—Lili Gyenes Cigány Band. Hungarian Folk Songs and Dances. Czardas (Grossmann). Zwei Märchenaugen (Kálmán). Rendez-vous (Lehár). Cigány Music. 8.45—Talk.

9.5—Lisa Tunell (Songs) and Inga Särnström (Pfte.) from Oster-sund. Songs (Peterson-Berger, Rangström, Nordqvist). Lotus-land (Scott). From the Spanish Suite (Albeñiz). Songs (Schubert, Schumann, R. Strauss, Rubinstein).

9.45—News. 10.0—Talk. 10.15—11.0 (from Göteborg)—Military Band from Liseberg.

**STOCKHOLM (Sweden)**

859 kc/s (349.2 m.); 100 kW.  
Transmits at intervals from 6.30 a.m. 5.0 p.m.—See Alpes-Grenoble. 5.45—For Women. 6.0—Records.

6.15—Records. 6.30—Variety Concert from Marseilles (PTT). 7.0—News. 7.30—Economics. 7.45—Report: The Cycle Tour of France. 8.0—News (German). 8.7—News. 8.15—For Farmers (German). 8.30—Records.

9.0—Widor and Vierne Commemoration Programme, by Rich (Organ), from the Saint-Pierre-le-Vieux Church. Part I (Vierne): Pastorale. Berceuse. Finale from the First Symphony. Part II (Widor): Excerpts. "Symphonie gothique." Allegro. Cantabile and Toccata from the Fifth Symphony.

10.0—"La Voix du Désert" (Jean Bergeaud), in memory of Charles de Foucauld. 10.30—News. 11.0—News (German).

**STUTTGART (Germany)**

574 kc/s (522.6 m.); 100 kW.  
Transmits at intervals from 5.0 a.m. 12.0 noon—2.0 p.m.—See Frankfurt.

2.0—3.0 and 4.0—6.0—See Deutschlandsender. 6.0—Topical Talks. 7.0—Records. 9.0—News.

9.15—Station Orchestra. Conductor: Zimmermann. Hansen (Pfte.). Allegro for Pfte. (Borck). Two Humoresques for Pfte. (Jamach). Two Orchestral Sketches (Westermann).

9.45—Reading (Zillich). 10.0—News. 10.30—Orchestra and Dance Band. 12.0 m't.—1.0 a.m. (Friday)—See Frankfurt.

**TOULOUSE (Radio-Toulouse) (France)**

913 kc/s (328.6 m.); 60 kW.  
Transmits at intervals from 8.30 a.m. 7.0—Songs. 7.15—News. 7.45—Orchestra. 8.15—"Histoire d'un Marin"—Fantasy. 8.30—Operetta Music.

8.45—Light Music. 9.10—"Chez moi—Le Plan"—Fantasy. 9.25—"Soirée à Tahiti"—Fantasy. 9.50—Paris Programme. 10.20—Orchestra. 10.35—Excerpts, "Faust" (Gounod). 10.50—Marches. 11.0—Jazz. 11.15—Film Music. 11.35—Light Music. 11.50—Announcements.

**TURIN (No. 1) (Italy)**

1,140 kc/s (263.2 m.); 7 kW.  
Milan (No. 1) etc. See Sunday.

Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15—Nelli Vernati (Soprano) and Armando Giannotti (Tenor). 5.55—6.5—Talk. 6.50—Dopolaro Notes. 7.0—Light Orchestral. Conductor: Ferruzzi. 7.40—News in Foreign Languages. 8.10—Time; News. 8.30—Talk. 8.45—Light Music. 9.0—"Lasciate fare a William"—Three-Act Play (Gandino).

10.20—Melody Potpourri. Radio Orchestra. Conductor: Salerrio. 10.45—11.50—Dance Music; at 11.0—News.

**VIENNA (Austria)**

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

Transmits at intervals from 6.45 a.m. 5.30 p.m.—Five Songs to Oriental Text (Provanzik), by Yella Braun-Ferwald (Mezzo-Soprano) and the Mihatsch Quartet.

5.45—Sonata quasi una fantasia (Beethoven) by Peter Stadler (Pfte.). 6.0—Talk: Bassini. 6.10—Talk. 6.35—Science. 6.45—Talk. 7.0—News. 7.10—Topical.

7.25—Military Band, Conductor: Königshofer. 8.40—Songs and Dance Music—Station Band, with Christl Giampietro and Edi Brosch-Sorpp.

9.25—Station Orchestra, Conductor: Holzner. Anny Gregorig (Soprano), Rosner (Violin). Overture, "Wiener G'schichten" (Helmesberger-Jascha). Song: Parla (Arditi). Waltz, Donaussen (Fucik). Waltz Song, "Eine Nacht in Venedig" (Strauss-Korngold). Violin: Minuet (Hasenöhrl). The Student passes by (Ibañez). Song, "The Land of Smiles" (Lehár). March, Till Eulenspiegel (Rupprecht). 10.10—News.

10.20—Orchestra, etc. (cont'd.). Kapriziöser—Walzer (Richardt). Song, "Schön ist die Welt" (Lehár). French Comedy Overture (Stix). Horch was die Geige dir erzählt (Schieder). Song, "Giuditta" (Lehár). Waltz, Fideles Wien (Komzak).

10.45—Sports Review. 10.55—News.

11.0—11.30—Orchestra, etc. (cont'd.). Austrian Marches (Uhl-Bernauer). Song, "The Dubarry" (Mil-löcker-Mackeben). Waltz, Tanzen möcht ich! (Kálmán). Loslassen (Ziehner).

11.30—12.0—Orchestra, etc. (cont'd.). 224 kc/s (1,339 m.); 120 kW.  
Cracow, etc. See Sunday.

Transmits at intervals from 6.15 a.m. 11.57 a.m.—Time; Fanfare. 12.15 p.m.—Reading.

12.25—1.0 (from Łódź)—Salon Orchestra. Conductor: Ryder. Jubilee Overture (Kéler-Béla). Mendelssohn Potpourri (Fetras). Waltzes (Robrecht). Parade (Eitenberg). Oriental Intermezzo (Siede). Slovak Dance (Felber).

3.45—Economics. 4.0—Recitation for Children. 4.15 (from Cracow)—Forgotten Melodies—Schrammel Quartet. 4.45 (from Poznań)—Talk. 5.0—Wilno-Warsaw Exchange Programme. Bori (Songs), from Wilno, and Klajnman (Violin), from Warsaw. Andante (Bach). La Précieuse (Couperin-Kreisler). Aria, "Eugene Onegin" (Tchaikovsky). Serenade, "Don Juan" (Napravnik). Meditation (Glazunov). Scherzo (Tchaikovsky-Flesch). Prologue, "Mefistofele" (Boito). Pimpinella (Tchaikovsky). Aria, "Salvator Rosa" (Gomez). Nocturne (Chopin—Nilstein). Orientale (Wieniawski).

5.50—Sports. 6.5—Talk. 6.10—Programme Notes. 6.15—Records. 6.50—Topical.

7.0—"The Old Shop-Boy"—Play after Prus (Huluewicz). 7.52—Topical. 8.2—Sports. 8.12 (from Wilno)—Light and Dance Music. Orchestra, etc. Conductor: Szczepanski; at 8.45—News. 9.45—"Cracow"—Word Pictures (Balucki).

10.0—Brahms Records. 10.50—11.30—News; Press Review.

**WARSAW (Poland)**

224 kc/s (1,339 m.); 120 kW.  
Cracow, etc. See Sunday.

Transmits at intervals from 6.15 a.m. 11.57 a.m.—Time; Fanfare. 12.15 p.m.—Reading.

12.25—1.0 (from Łódź)—Salon Orchestra. Conductor: Ryder. Jubilee Overture (Kéler-Béla). Mendelssohn Potpourri (Fetras). Waltzes (Robrecht). Parade (Eitenberg). Oriental Intermezzo (Siede). Slovak Dance (Felber).

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10.0—Brahms Records. 10.50—11.30—News; Press Review.



# FRIDAY

## July 23

**3 p.m.**  
**KALUNDBORG**, No more War—Opening of the World Congress for Peace from Christiansborg Castle. Addresses by George Lansbury and Lord Ponsonby. 3.50—Orchestra.

**5 p.m.**  
**ATHLONE**, 5.30—Our First Broadcast.  
**BERLIN**, Pfte. 5.30—Week-end Hints. **BEROMÜNSTER** and **SOTTENS**, Light Orchestral. 5.30—Mozart Songs and Arias. 5.50—Records. **BRUSSELS (1)**, Accordion. 5.20—Harp Records with Commentary. 5.40—Records. **BRUSSELS (2)**, Dance Music from the Casino, Knocke. **BUDAPEST (1)**, 5.30—Jazz Band.  
**DEUTSCHLANDSENDER, BRESLAU, COLOGNE, and STUTTGART**, Reading. 5.10—Light Music.  
**FRANKFURT**, Band, Violins.  
**HAMBURG**, Concert. **HILVERSUM (1,875 m.)**, 5.10—Records. 5.40—Light Music. **HILVERSUM (301.5 m.)**, KRO Melodists; at 5.40—Talk.  
**KÖNIGSBERG**, Orchestra. 5.45—Review.  
**LEIPZIG**, 5.10—Leipzig Students' Madrigal Society. 5.40—Books.  
**LILLE**, String Quartets (Beethoven, Smetana).  
**MUNICH**, Talk. 5.15—Variety Concert.

**RADIO-PARIS**, Concert from the American Conservatoire, Fontainebleau. Lucette Descaves-Truc (Pfte.) and Bazelaire (C'ello).  
**STRASBOURG**, Chopin. 5.30—Records. 5.45—Saxophone, Soprano.  
**VIENNA**, 5.30—Carinthian Composers.

**6 p.m.**  
**ATHLONE**, Our First Broadcast. 6.20—For Women. 6.35—News.  
**BERLIN**, Roods Band. **BEROMÜNSTER**, For Children. 6.30—Records. **BRESLAU**, Reading. 6.30—Violin, Pfte. (Schubert, Brahms). **BRUSSELS (1)**, For Ex-Servicemen. 6.15—Records. 6.30—Brahms Music. Duquenois (Pfte.), Orchestra and Record. **BRUSSELS (2)**, Violin. 6.30—Records. 6.45—Talk. **BUDAPEST (1)**, Jazz Band. 6.30—Sports.  
**COLOGNE**, Schubert and Weber Songs. 6.30—Where are you, Comrade? 6.50—Pfte. Concerto in E flat (Liszt).  
**DEUTSCHLANDSENDER**, French Horn and Pfte. Sonata (Hummel). 6.20—Lullabies. 6.45—Report.  
**FRANKFURT**, Topical.  
**HAMBURG**, Sports. 6.10—Violin, Pfte. 6.45—Notes. **HILVERSUM (1,875 m.)**, Light Music. 6.40—Talk. **HILVERSUM (301.5 m.)**, KRO Melodists. 6.40—News; Talk.  
**KALUNDBORG**, Accordion. 6.15—Talks.  
**LEIPZIG and KÖNIGSBERG**, Dresden Philharmonic, Soprano, Pfte. **LILLE**, Quartets (contd.). 6.30—Educational.  
**MOSCOW**, Operetta. **MUNICH**, Variety Concert. 6.45—To be announced.  
**PARIS (PTT)**, Pfte.; Songs; 'Cello. 6.45—Records.  
**RADIO-PARIS**, Concert (contd.). 6.30—Talks.  
**SOTTENS**, Ballet Music, "Les deux pigeons" (Messenger). 6.20—Reading. 6.30—French Opera Music. **STRASBOURG**, Saxophone, Soprano. 6.30—Educational. **STUTTGART**, Topical.  
**TURIN**, 6.50—Report.  
**VIENNA**, Sports; Talks.

**7 p.m.**  
**ATHLONE**, Country Cures and Superstitions. 7.20—Banjo Trio. 7.40—Great Writers of Today. 7.55—Brahms Concert. Orchestra, Mezzo-Soprano and 'Cello.  
**BERLIN**, Echoes. 7.20—Records.  
**BEROMÜNSTER**, Notes. 7.15—Talk and Readings. 7.45—News. 7.55—Play. **BRESLAU**, Folk Songs. 7.45—Talk. **BRUSSELS (1)**, Talk. 7.15—Clarinet. 7.30—News. **BRUSSELS (2)**, Records. 7.30—Talk; News. **BUCHAREST and RADIO-ROMANIA**, 7.30—"Aida" (Verdi) (Records). **BUDAPEST (1)**, Records.  
**COLOGNE**, Concerto (Liszt) (contd.). 7.10—Music. 7.45—News.

**8 p.m.**  
**ATHLONE**, Brahms Concert (contd.). 8.55—Tales.  
**BERLIN**, News. 8.10—Light Music and Dance Music. **BEROMÜNSTER**, Play (contd.).  
**BRATISLAVA**, 8.15—"The Waltz"—Play (Prioux). 8.55—See Prague. **BRESLAU**, News. 8.10—Concert. **BRUSSELS (1)**, Records: "Carmen" (Bizet). 8.30—Concert for the War-Disabled. **BRUSSELS (2)**, Violin Concerto in D (Prokofiev). 8.20—"The End of the Story"—Play after Jack London (Collet). 8.45—Mozart Records. **BUCHAREST and RADIO-ROMANIA**, "Aida" (contd.). **BUDAPEST (1)**, "Tornado in Santa Cruz"—Play (Janina Morawska) (Recorded). 8.50—News.

**9 p.m.**  
**ATHLONE**, Tales (contd.). 9.10—Ceilidhe Music by the Bel-havel Trio. 9.30—Variety.  
**BERLIN**, Music (contd.). **BEROMÜNSTER**, Orchestra. 9.55—Schlichte Weisen (Reger). **BRESLAU**, Concert (contd.). **BRUSSELS (1)**, Concert (contd.); at 9.15—Talk; Notes. **BRUSSELS (2)**, Concert from the Casino, Knocke, with Cortot (Pfte.). Schubert, Schumann, Richard Strauss, etc.). **BUCHAREST and RADIO-ROMANIA**, "Aida" (contd.); at 9.10—News. **BUDAPEST (1)**, News. 9.10—Cigány Band.  
**COLOGNE**, Josef Strauss Waltzes. **DEUTSCHLANDSENDER**, "Carinthia"—Sequence with Music.

**DEUTSCHLANDSENDER**, A Lyrical Radio Dictionary (Krug). 7.45—Report.  
**FRANKFURT**, Excerpts from German Light Operas with Commentary. Orchestra, Maria Madlen-Madsen (Soprano), Melchert (Tenor) and Strienz (Bass).  
**HAMBURG**, Dance Band Competition (Records). 7.45—Topical.  
**HILVERSUM (1,875 m.)**, Records. 7.10—News; Talk. 7.40—Songs and Pfte. **HILVERSUM (301.5 m.)**, Talk; Music. 7.40—News. 7.50—KRO Orchestra, etc.  
**KALUNDBORG**, News. 7.30—Talk. **KÖNIGSBERG**, Talks. 7.20—Organ. 7.45—Talk.  
**LEIPZIG**, Philharmonic, etc. (contd.). 7.45—Review. **LILLE**, News. 7.30—Talks. 7.45—See Paris (PTT).  
**MONTE CENERI**, 7.45—News. 7.55—Records. **MOSCOW**, Operetta (contd.). **MUNICH**, The Magic of the Voice—Orchestra, Singers (Recorded).  
**OSLO**, News. 7.45—Petra Henfriksen (Pfte.) and Farkas (C'ello).  
**PARIS (PTT)**, News; Topical. 7.45—Report. **POSTE PARISIEN**, News. 7.12—Talks. 7.25

**DEUTSCHLANDSENDER**, News. 8.10—Classical Records.  
**FRANKFURT**, German Musical Comedies (contd.).  
**HAMBURG**, News. 8.10—"Gavotte, Hornpipe and Ländler"—Music by Classical Composers. **HILVERSUM (1,875 m.)**, Songs and Pfte. 8.10—Talk. 8.40—VARA Orchestra, Baritone. **HILVERSUM (301.5 m.)**, KRO Orchestra, etc.  
**KALUNDBORG**, Excerpts, "Ma non Lescout" and "La Bohème" (Puccini). 8.30—"That Awful Night"—Play (Clausen).  
**LEIPZIG**, Saarbrücken Orchestra. Hilde Anschutz (Soprano), (Wagner, Fiedler, Mozart, Suder).  
**LILLE**, Records and Talks. 8.30—Orchestra, Songs.  
**MONTE CENERI**, Records (contd.). 8.30—Talk. 8.40—Arias and Pfte. **MOSCOW**, Operetta (contd.). **MUNICH**, Orchestra, Singers (contd.).  
**OSLO**, Pfte., 'Cello (contd.). 8.30—Talk. 8.55—Cabaret on Records.  
**PARIS (PTT)**, News. 8.10—Records. 8.30—Variety. **POSTE PARISIEN**, 8.5—Variety. 8.55—"La belle saison" (de Letraz-

**EIFFEL TOWER**, Chamber Music. Lucien Verroust (Songs) and the Tzipine Trio.  
**FRANKFURT**, News. 9.15—"Der hölzerne Bock"—Comedy (Sievers).  
**HAMBURG**, Music (contd.). 9.10—"A Look—a Greeting"—Songs and Scenes (Brink). **HILVERSUM (1,875 m.)**, Orchestra, etc. (contd.). 9.40—Records. **HILVERSUM (301.5 m.)**, KRO Orchestra, etc. 9.10—Cigány Band. 9.40—Records.  
**KALUNDBORG**, Orchestra (Coates, Massenet). 9.40—Discussion. 9.50—Riefing (Pfte.). (Serabini, Ravel, Debussy).  
**KÖNIGSBERG**, News. 9.10—"Soldier, Margret and Annermarie"—Sequence, with Band.  
**LEIPZIG**, News. 9.15—Fricke Band. **LILLE**, Orchestra, Songs.  
**MONTE CENERI**, Arias and

(contd.). 10.45—News. **BUDAPEST (1)**, Cigány Band. 10.15—Salon Orchestra.  
**DEUTSCHLANDSENDER and SOME GERMAN STATIONS**, News. 10.30—Band and Saxophone Quartet.  
**EIFFEL TOWER**, Songs and Trio (contd.).  
**FRANKFURT**, News. 10.30—Dance Band.  
**HAMBURG**, News. 10.20—Talk. 10.30—Symphony Orchestra. **HILVERSUM (1,875 m.)**, Records. 10.10—News. 10.20—VPRO Religious Programme. 10.40—Records. **HILVERSUM (301.5 m.)**, Records; at 10.10—News. 10.50—KRO Boys. Klein (Songs).  
**KALUNDBORG**, Pfte. (contd.). 10.15—News. 10.35—Operetta Music. **KÖNIGSBERG**, Sequence (contd.). 10.10—News. 10.30—See Deutschlandsender.  
**LEIPZIG**, Light Music (contd.). 10.15—Reading. 10.30—News. 10.50—Dance Band. **LILLE**, Orchestra, Songs. 10.30—News. **MOSCOW**, 10.5—English Talk: Soviet Frontier Heroes.  
**OSLO**, Topical. 10.15—Talk with Songs.  
**PARIS (PTT)**, See Brussels (2). 10.30—News. 10.45—Records: Classical Dances. **POSTE PARISIEN**, "La belle saison" (contd.). **PRAGUE**, News. 10.20—Report. 10.25—Records.  
**RADIO-NORMANDIE**, Concert (contd.). **RADIO-PARIS**, "The Montmartre Gazette" (contd.). 10.30—Records. 10.45—News. **ROME**, German Music. 10.30—Dance Music.  
**SOTTENS**, Orchestra. **STOCKHOLM**, Radio Orchestra. Norrby (C'ello). (Smetana, Dvořák, Weinberger). **STRASBOURG**, Play (contd.). 10.30—News.  
**TOULOUSE**, Paris Programme. 10.20—Music. **TURIN**, Comedy (contd.).  
**VIENNA**, Comedy (contd.). 10.10—News. 10.20—Dance Band. 10.45—Talk in Italian. 10.55—Notes.  
**WARSAW**, Piszczyk (Soprano) and the Station Ensemble. 10.50—News.

## PRINCIPAL EVENTS

### SYMPHONY CONCERTS

8.55 Prague: Popular symphony concert.  
 9.0 Brussels 2, Paris (PTT): Candaël, Cortot, from Knocke Casino.  
 11.0 Radio-Paris: Rhené-Baton Concert.

### LIGHT CONCERTS

12.30 Radio-Paris: De Souza Orchestra.  
 3.50 Kalundborg: Radio Orchestra.  
 4.0 Deutschlandsender: Popular orch.  
 5.0 Radio-Paris: American Conservatoire.  
 6.0 Leipzig, etc.: Dresden Phil.  
 7.0 Frankfurt: Light opera music.  
 7.25 Vienna: Lower Austrian folk music.  
 7.50 Hilversum (301.5 m.): KRO Orch.  
 7.55 Athlone: Brahms programme.  
 8.0 Brussels 1: Soldiers' programme.  
 8.10 Breslau: Folk Music.  
 8.10 Hamburg: Orchestral dances.  
 8.40 Hilversum (1,875 m.): Orch., baritone.  
 9.0 Beromünster: Radio Orchestra.  
 9.0 Cologne: Josef Strauss waltzes.  
 9.0 Deutschlandsender: Carinthian prog.  
 9.0 Kalundborg: Coates, Massenet.  
 9.0 Radio-Paris: Montmartre programme.  
 9.0 Rome: German music.  
 9.30 Sottens: Operetta music, etc.  
 10.0 Stockholm: Czech programme.

10.0 Warsaw: Vocal, orchestral.  
 10.30 Deutschlandsender: Band, saxophones.  
 10.35 Kalundborg: Operetta music.

### CHAMBER MUSIC

4.0 Radio-Paris: Pfte., violin, 'cello.  
 9.0 Eiffel Tower: Trios, songs.  
 12.0 Stuttgart, Frankfurt: Haydn, Schubert, Mozart.

### RECITALS

6.0 Paris (PTT): Pfte., song, 'cello.  
 7.20 Königsberg: Organ.  
 7.45 Oslo: 'Cello, pianoforte.  
 8.40 Monte Ceneri, Sottens: Arias, songs.  
 9.0 Strasbourg: Organ (Widor, Vierne).  
 9.50 Kalundborg: Modern pfte. music.  
 9.55 Beromünster; Reger songs.  
 9.55 National: Sammons, Murdoch.

### PLAYS

2.30 Radio-Paris: "La sirène enlisée."  
 8.5 Vienna: "Der Dummkopf" (Fulda).  
 8.30 Kalundborg: "That Awful Night."  
 8.55 Poste Parisien: "La belle saison."

### TALKS

11.0 Budapest 1: News in English.  
 LAST NEWS BULLETINS, see Monday

### DANCE MUSIC

2.55 Hilversum (1,875 m.); 10.20, Vienna; 10.25, Regional; 10.30, Breslau, Frankfurt; 10.50, Hilversum (301.5 m.), Leipzig; 11.0, National; 11.15, Turin.

## 11 p.m.

**BRESLAU**, Dance Band, Soprano.  
**BRUSSELS (1)**, Concert (contd.). 11.15—La Brabançonne. **BUDAPEST (1)**, News in English. 11.30—Records.  
**DEUTSCHLANDSENDER, and SOME GERMAN STATIONS**, Band and Quartet (contd.).  
**FRANKFURT**, Dance Band.  
**HAMBURG**, Orchestra (contd.). **HILVERSUM (1,875 m.)**, Records. 11.10—Light Music. **HILVERSUM (301.5 m.)**, KRO Boys, Klein (Songs). 11.20—Records.  
**KALUNDBORG**, 11.0-11.10—Operetta Music.  
**LEIPZIG**, Dance Band.  
**MOSCOW**, For Germany.  
**POSTE PARISIEN**, "La belle saison" (contd.). **PRAGUE**, News in Russian.  
**RADIO-NORMANDIE**, Café Concert. **RADIO-PARIS** and **LILLE**, Concert. Conductor: Rhené Baton. Corradina Mola (Harpischord). **ROME**, News (Italian, English). 11.30—Dance Music.  
**STRASBOURG**, News in German. 11.5—Concert from Radio-Paris.  
**TOULOUSE**, Songs and Light Music. 11.50—Notes. **TURIN**, News. 11.15—Dance Music.  
**VIENNA**, Dance Music.

## 12 midnight

**MOSCOW**, For Spain.  
**RADIO-NORMANDIE**, Melodies. 12.30—Light Music.  
**RADIO-PARIS, LILLE and STRASBOURG**, Concert (contd.).  
**STUTTGART and FRANKFURT**, Concert. Part I: Orchestra, Songs, Pfte. (Haydn, Schubert, Mozart). Part II: Records.

## 1 a.m. (Saturday)

**RADIO-NORMANDIE**, Dance Music.

## 10 p.m.

**ATHLONE**, Variety. 10.30—News.  
**BEROMÜNSTER**, Schlichte Weisen (Reger) (contd.). 10.25—News. **BRESLAU**, News. 10.20—Talk. 10.30—Dance Band, Soprano. **BRUSSELS (1)**, Concert (contd.). **BRUSSELS (2)**, Concert (contd.). **BRUSSELS (2)**, Concert (contd.).  
**BUCHAREST and RADIO-ROMANIA**, "Aida" (contd.).  
**COLOGNE**, Josef Strauss Waltzes. **DEUTSCHLANDSENDER**, "Carinthia"—Sequence with Music.

— Records. 7.40—Report. **PRAGUE**, News (German). 7.10—Variety. 7.45—Talk.  
**RADIO-NORMANDIE**, Concert. 7.40—News. **RADIO-PARIS**, Songs and Pfte. **ROME**, Talk in French; Music; Notes. 7.53—News in Foreign Languages.  
**SOTTENS**, Talk. 7.10—Recitation. 7.20—Talk. 7.30—Music. 7.45—News. **STOCKHOLM**, 7.15—News. 7.30—Play. **STRASBOURG**, News. 7.30—Talk. 7.45—Report. **STUTTGART**, Music.  
**TOULOUSE**, Songs. 7.15—News. 7.45—Dance Music. **TURIN**, Light Orchestral. 7.40—News in Foreign Languages.  
**VIENNA**, News; Topical. 7.25—Lower Austrian Folk Music.  
**WARSAW**, Symphony (Beethoven) (Records). 7.35—Songs. 7.50—Sports.

Delettre). **PRAGUE**, Slovak Folk Songs (Schneider-Trnavsky). 8.15—"Don Juan's Disappointment"—Comedy (Celsi, trans. Fastrová). 8.55—Czech Philharmonic, Soprano.  
**RADIO-NORMANDIE**, Variety Items. **RADIO-PARIS**, Talks. 8.30—René Le Roy (Flute) and Pierre Jamet (Harp). **ROME**, News (contd.). 8.30—Notes.  
**SOTTENS**, Report. 8.5—Records. 8.40—See Monte Ceneri.  
**STOCKHOLM**, Play (contd.).  
**STRASBOURG**, News; Records. 8.30—"Ma soeur Anne"—Play (Dumas), from the Odéon Theatre, Paris. **STUTTGART, COLOGNE, KÖNIGSBERG**, "Götze von Berlichingen" (arr. Röger).  
**TOULOUSE**, Light Music. **TURIN**, News (contd.). 8.30—Notes.  
**VIENNA**, Ballad. 8.5—"Der Dummkopf"—Comedy (Fulda).  
**WARSAW**, Kalman Concert.

Pfte. (contd.). **MOSCOW**, Operetta (contd.). **MUNICH**, News. 9.10—Cabaret—Schrammel Ensemble. Songs to the Lute, etc.  
**OSLO**, Cabaret (contd.). 9.40—News.  
**PARIS (PTT)**, See Brussels (2).  
**POSTE PARISIEN**, "La belle saison" (contd.). **PRAGUE**, **BRATISLAVA** and **BRNO**, Philharmonic, etc. (contd.). 9.55—Records.  
**RADIO-NORMANDIE**, Concert. Hunting Horns, Soprano, Discuse, etc. **RADIO-PARIS**, "The Montmartre Gazette." Part I, The Café Momus—Report. Part II, "Follow the Crowd"—Review; at 9.30—News. **ROME**, German Music.  
**SOTTENS**, See Monte Ceneri. 9.30—Orchestra. **STOCKHOLM**, English Operetta and Film Music—Radio Orchestra. 9.45—News. **STRASBOURG**, Play (contd.).  
**STUTTGART**, News. 9.15—Song Records.  
**TOULOUSE**, Variety. 9.50—Paris Programme. **TURIN**, "Bufere estive"—Musical Comedy (Gentili).  
**VIENNA**, Comedy (contd.).  
**WARSAW**, Kalman Concert. 9.45—Poetry.



## FRIDAY (July 23)

## NATIONAL

For Time Signals, see Monday.  
 10.15 a.m. (D)—Service.  
 10.30 (D)—Weather Forecast.  
 10.45 (D)—Filling your Store-cupboard. 11.0 (D)—Records.  
 11.45 (D)—Cecil Cope (Baritone); O. H. Peagood (Organ).  
 12.30 p.m. (D)—Johnny Rosen and his Band. 1.15 (D)—Song Recital.  
 2.0 (D)—Records.  
 2.45 (D)—Alannah Delias (Pfte.).  
 3.15 (D)—Fishing.  
 3.45 (D)—Northern Concert Party.  
 4.30 (D)—Records.  
 5.0—Walter Collins and his Light Orchestra; Margaret Eaves (Soprano). 6.0—The First News.  
 6.25—Dale Smith (Baritone); Gershon Parkington (Cello).  
 7.15—Gardening Talk.  
 7.30—"Five Hours Back."  
 8.0—BBC Orchestra (Section C).  
 8.30—Al Collins and his Dance Orchestra.  
 9.0—The Third News.  
 9.20—Talk.  
 9.40—Robb Wilton in the Court of "Not-so-Common, Please!"  
 9.55—Albert Sammons (Violin); William Murdoch (Pfte.).  
 10.40—Short Story.  
 11.0—Billy Bissett and his Canadians.  
 11.30-12.0—Dance Records.

## REGIONAL

For Time Signals, see Monday.  
 10.15-10.45 a.m. (ex. Western)—National.  
 10.45 (ex. Western)—Cinema Organ.  
 11.15 (ex. Western)—Doggett's Coat and Badge Race for London Watermen.  
 11.30 (ex. Western)—Light Orchestra.  
 12.15 p.m. (ex. Western)—Quintet.  
 1.0 (ex. Western)—Records.  
 1.35 (Scottish)—Herring Bulletin.  
 1.45 (ex. Western)—BBC Northern Ireland Orchestra; Elsie McCullough (Soprano).  
 2.45 (ex. Western)—Dance Records.  
 3.15 (ex. Western)—Carlton Hotel Orchestra.  
 3.45 (ex. Western)—"The week in Westminster."  
 4.0 (ex. Western)—BBC Midland Orchestra.  
 5.0 (ex. Western)—Children's Hour.  
 5.0 (Western)—National.  
 6.0 (Regional, Welsh)—Quintet.  
 6.0 (Midland, Northern)—Cinema Organ.  
 6.0 (N. Ireland)—Dance Band.  
 6.0 (Scottish)—"Next Week You'll Hear."  
 6.5 (Scottish)—"Out to Play."  
 6.25 (ex. Western, Welsh)—Shows from the Seaside.  
 6.25 (Welsh)—Records.  
 6.40 (Welsh)—Welsh talk.  
 7.0 (ex. Western)—Second News.  
 7.20 (ex. Western)—Regional Announcements.  
 7.30 (Regional)—Records.  
 7.30 (Midland)—Dvořák Songs: BBC Midland Singers.  
 7.30 (Northern)—Girls' Choir.  
 7.30 (Welsh)—The Ton Pentre and district Choral Society.  
 7.30 (N. Ireland)—The Orpheans.  
 7.30 (Scottish)—Cinema Organ.  
 7.45 (Scottish)—Talk.  
 8.0 (ex. Northern, Western)—Dance tunes of yesterday.  
 8.0 (Northern)—Camp-fire song.  
 8.0 (Western)—The Sylvan Male Voice Quartet; Montagu Stone (Pfte.).  
 8.30 (Regional, Western)—Sinclair Logan (Baritone); Vitya Vronsky and Victor Babin (Pftes.).  
 8.30 (Midland)—BBC Midland Orchestra.  
 8.30 (Northern)—Bernard Sims (Bass).  
 8.30 (Welsh)—Laura Evans Williams (Soprano); Philip Wilsdon (Baritone).  
 8.30 (N. Ireland)—"Farmers' Work and Worry."  
 8.30 (Scottish)—Song and Story.  
 8.45 (N. Ireland)—Records.  
 8.50 (Northern)—Short story.  
 9.0 (Northern)—Concert party.  
 9.5 (Welsh)—Records.  
 9.5 (Scottish)—Piping.  
 9.15 (Midland)—Tewkesbury Drama Festival; "Murder in the Cathedral," by T. S. Eliot.  
 9.20 (ex. Midland, Northern, Western)—BBC Theatre Organ.  
 9.20 (Western)—"People on the move."  
 9.40 (ex. Welsh)—Midland.  
 9.40 (Welsh)—"Looking Ahead."  
 10.0 (ex. Western)—News Summary.  
 10.25 (ex. Western)—Billy Bissett and his Canadians.  
 11.30 (ex. Western)—Late News Summary.  
 11.40-12.0 (ex. Western)—Records.

Hours of Transmission in British Summer Time.

## ATHLONE (Ireland)

565 kc/s (581 m.); 100 kW. Dublin, etc. See Sunday.  
 1.30-3.0 p.m.—Records.  
 5.30—Our First Broadcast with Weaving (Compère). 6.20—Talk for Women by Bernadette Plunkett; Summer Drinks and Summer Fruits. 6.35—Irish News Feature. 6.45—News. 7.0—Country Cures and Superstitions by Miodhachain. 7.20—Weston Banjo Trio. 7.40—Great Writers of Today.  
 7.55—The Masters of Lieder No. 3—Brahms—Radio, Orchestra. Maisie MacDonagh (Mezzo-Soprano), Ida O'Reilly (Cello). 8.55—Tales from a Tailor's Shop. 9.10—Ceilidhe Music by the Belhavel Trio.  
 9.30—Variety. 10.30—News. 11.0—National Anthem.

## BARCELONA (EAJI)

(Spain)  
 795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News; Records; at 11.0—Time; News. 12.0 m't.—1.0 a.m. (Saturday)—News (Italian, German, French, Portuguese).

## BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Stuttgart. 2.0 p.m.—News; Records; Exchange. 3.35-4.0—Records. 4.30-4.45—Sports Report from Oslo.  
 5.0—Pollack (Pfte.). Humoresques (Grieg). Kaleidoscope (Goossens).  
 5.30—Week-end Hints.  
 6.0—Roosz Band. 7.0—Evening Echoes. 7.20—"Summer"—Records. 8.0—News.  
 8.10—Light Music and Dance Music. 10.0—News.  
 10.30-12.0 m't.—See Deutschlandsender.

## BEROMÜNSTER

(Switzerland)  
 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).  
 6.15-6.40 a.m.—Gym. 12.0 noon—Records. 12.29 p.m.—News. 12.40-1.30—Radio Sextet, and Mouth Organ.  
 4.30—Reading. 5.0—Radio Orchestra. Conductor: Neppach.  
 5.30—Mozart Songs by Armida Melliger (Soprano). 5.50—Orchestral Records. 6.0—Weather; For Children. 6.30—Records. 7.15—Time; Announcements. 7.15—Talk and Readings: Heinrich Mann. 7.45—News.  
 7.55—Play.  
 9.0—Radio Orchestra. Conductor: Bernhard.  
 9.55 (from Basle)—Schlichte Weisen (Reger) by Gretel Egli-Bloch (Contralto) and Henneberger (Pfte.). 10.25-10.30—News.

## BRATISLAVA

(Czechoslovakia)  
 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—Hungarian Transmission; Lucy Krorai (Hungarian Songs); Talk. 6.45-7.45—See Prague. 7.45—Sports. Talk. 8.0—See Prague.  
 8.15—"The Waltz"—Play (Prieux) from Kosice. 8.55-10.20—See Prague. 10.20—News (Hungarian). 10.35-11.0—Records.

## BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.).  
 Transmits at intervals from 5.0 a.m. 12.0 noon—Orchestra; Organ.  
 2.0-3.0 p.m.—News; Records.  
 4.0—See Deutschlandsender; at 5.0—Reading. 6.0—Reading.  
 6.30—Häusler (Violin) and Hattwig (Pfte.). Duet in A (Schubert).  
 Movements, Sonata in D minor (Brahms).  
 6.55—Programme Notes; Markets.  
 7.0—Folk Songs. 7.45—Talk. 8.0—News.  
 8.10—Orchestra, Band, Peasant Band, Barrel-Organ and Saxophone.  
 10.0—News. 10.20—Talk: The International Air Rally at Zürich.  
 10.30-12.0 m't.—Dance Band. Edith Geisler (Soprano).

## BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 5.5 p.m.—Station—Orchestra. Guest-Conductor: Heller, Elegy (Suk). Serenade (Dvořák).  
 5.40—German Transmission: Sports; Records; Talk. 6.15—Records. 6.35—Talk.  
 6.45-11.0—See Prague.

## BRUSSELS (No. 1)

(Belgium)  
 620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; Gym; News.  
 12.0 noon—"Holidays"—Records.  
 12.20 p.m.—"Savoy"—a Description. 12.30—Shipping. 12.31—Records. 12.45—Salon Orchestra.  
 1.0—News. 1.10—Radio Orchestra. 1.30—Songs, "La fille de Madame Angot" (Lecocq). 1.40—Song Records. 2.0—Art Notes.  
 4.55—News. 5.0—Accordion. 5.20—Harp Records with Commentary.  
 5.40—Records. 6.0—For Ex-Servicemen. 6.15—Records.  
 6.30—Brahms Recital by Duquenois (Pfte.) and Orchestra. Variations on a Handel Theme. Record: Hungarian Dance.  
 7.0—Talk for Motorists.  
 7.15—Memories of Bellini (Barmann) by Cardon (Clarinet). 7.30—News. 8.0 till Close—For Ex-Servicemen. Records: Carmen (Bizet).  
 8.30—Gala Benefit Concert for the War Disabled, from the Grand Palais du Centenaire. A French Military Band. Band of the 2nd Battalion Somerset Light Infantry. Band of the Royal Carabiniers of Italy. Band of the Royal Romanian Guard. A Belgian Military Band; at 9.15—(a) Anti-War Talk by Mme Brunel, President of the War Widows' and Mothers' Union; (b) Announcements.  
 11.15 (approx.)—La Brabançonne.

## BRUSSELS (No. 2)

(Belgium)  
 932 kc/s (321.9 m.); 15 kW. Programme in Flemish.  
 6.37-9.0 a.m.—Records; Gym; News. 12.0 noon—Records. 12.30 p.m.—Orchestra. Conductor: Walpot. 1.0—News. 1.10—Salon Orchestra. Conductor: Féron. Colin (Clarinet). 1.30—Records. 2.0—Shipping. 4.55—News.  
 5.0—Dance Music by Willie Lewis and his Entertainers and The Lanigiro Hot Players, from the Casino, Knocke.  
 6.0—Tijgat (Violin). Romance in F (Beethoven). Havanaise (Saint-Saëns). Berceuse (Guilmot). Zapateado (Sarasate).  
 6.30—Records. 6.45—Talk. 7.0—Records: Light Music. 7.30—Talk: The World Jamboree; News.  
 8.0—Violin Concerto in D (Prokofiev), with Sziget (Records).  
 8.20—"The End of the Story"—Play after Jack London (Collet).  
 8.45—Records: Eine kleine Nachtmusik (Mozart).  
 9.0—Concert from the Casino, Knocke, with Cortot (Pfte.). Conductor: Candaël. The Unfinished Symphony (Schubert). Pfte. Concerto in A minor (Schumann). Don Juan (R. Strauss). Pfte. Pieces. Overture, "Oberon" (Weber). 10.30 (approx.)—News.  
 10.40 (approx.)—11.0—Handel, Liszt and Mozart Records.

## BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania (Brasov), 160 kc/s (1,875 m.).  
 Transmits at intervals from 5.30 a.m. 6.3 p.m.—Romanian Music by the Victor Predesco Orchestra. 7.10—Talk.  
 7.30—"Aida" (Verdi) by Singers, Choir and Orchestra of La Scala, Milan (on Records); at 8.15—Books, at 9.10—News, and at 10.0—Sports. 10.45—News (French, German, Romanian).

## BUDAPEST (No. 1)

(Hungary)  
 546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. 12.5 p.m.—Oska Cigány Band; at 12.30—News. 1.30—Military Band. Conductor: Fegydy. 2.40—News. 4.15—Readings. 5.30—Komor Jazz Band. 6.30—Sports. 7.0—Records.  
 8.0—"Tornado in Santa Cruz"—Play (Janina Morawska) (Recorded). 8.50—News.  
 9.10—Rigó Cigány Band.  
 10.15—Station Salon Orchestra.  
 11.0—News in English. 11.30—Records.

## BUDAPEST (No. 2)

(Hungary)  
 359.5 kc/s (834.5 m.); 18 kW. 6.30 p.m.—Szeless (Violin). 7.30—Talk.  
 8.0—Police Band. 9.20—News.

## COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.50 a.m. 12.0 noon—Orchestra. 2.0 p.m.—News.

2.15—Variety from Deutschlandsender. 3.0-3.15—Books. 3.45—Markets.  
 4.0—See Deutschlandsender; at 5.0—Talk. 6.0—Schubert and Weber Songs by Kläre Hansen (Soprano). 6.30—Where are you, Comrade? 6.50—Records: Pfte. Concerto in E flat (Liszt).  
 7.10—Music from the "Nation at Work" Exhibition, Düsseldorf.  
 7.45—Snapshots; News.  
 8.0—See Stuttgart.  
 9.0—Josef Strauss Waltzes by the Station Orchestra. Conductor: Kühn. Actionen. Ernest und Humor. Hochzeitsklänge. Wiener Fresken. Aquarellen. Wiener Kinder. Transactionen. 10.0—Time; News.  
 10.30-12.0 m't.—See Deutschlandsender.

## DEUTSCHLANDSENDER

(Germany)  
 191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg. 1.45 p.m.—News.  
 2.0—Variety. 3.0—Announcements. 3.15—Children's Choir. 3.40—For Children.  
 4.0—Station Orchestra, etc. Conductor: Dobrindt; at 5.0—Reading. 6.0—French Horn and Pfte. Sonata (Hummel). 6.20—Lullabies of Many Lands. 6.45—Report: The Radio Exhibition. 7.0—"A Lyrical Radio Dictionary" (Krug) with Music by Blacky Hübner. 7.45—Report: The International Air Rally at Zürich. 8.0—Motto; News. 8.10—Classical Records.  
 9.0—"Carinthia"—Sequence with Music. 10.0—News.  
 10.30-12.0 m't.—Fröhlich Band and Bumcke Saxophone Quartet.

## FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday.  
 Transmits at intervals from 6.0 a.m. 12.0 noon—See Stuttgart. 2.0 p.m.—News.  
 2.10—Variety from Deutschlandsender. 3.0-3.15—Talk; Markets. 4.0—Hauck Band. 6.0—Topical. 7.0—Excerpts from German Light Operas with Commentary. Station Orchestra. Conductor: Rosbaud. Maria Madlen-Madsen (Soprano), Melchert (Tenor) and Strienz (Bass). 9.0—News.  
 9.15—"Der hölzernen Bock"—Comedy (Sieviers). 10.0—Time; News.  
 10.30—Dance Band.  
 12.0 m't.—1.0 a.m. (Sat.)—See Stuttgart.

## HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday.  
 Transmits at intervals from 5.45 a.m. 12.0 noon—Concert. 2.0 p.m.—News; Music. 3.0—Shipping; Markets. 3.25—Songs to the Lute, Violin.  
 4.0—Concert. Heinemann Band, Jena Kroll-Lange (Soprano), Beckmann (Pfte.) and a Pfte. Trio. In the intervals, Talks. 6.0—Sports.  
 7.10—Kramer (Violin), Beckmann (Pfte.). 6.45—Shipping.  
 7.0—Dance Band Competition (Recorded). Gaden, Bund, Rüh, Carroll Gibbons, Luter, Kreuder, Zehner and von Gezy Dance Jands. 7.45—Topical. 8.0—News.  
 8.10—Gavotte, Hornpipe and Jändler Music by Classical Composers, Kulenkampff (Compère). Station Orchestra. Conductor: Kruttge. 9.10—"A Look and a Nod"—Songs and Sketches. 10.0—News. 10.20—Talk: The International Air Rally at Zürich.  
 10.30-12.0 m't. (from Hanover)—Symphony Orchestra. Conductor: Schönherr.

## HILVERSUM (1,875 m.)

(Holland)  
 160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m.  
 7.40 a.m.—VARA Programme; Records. 9.40—VPRO Religious Programme. 10.20-11.40—VARA Programme: Records and Recitations.  
 11.40 a.m.—3.40 p.m.—AVRO Programme. 11.40—Kovacs Lajos Orchestra. Records in the intervals.  
 1.40—The Lyra Trio. 2.25—Pierre Palla (Organ). 2.55—AVRO Dance Band. Conductor: Mossel.  
 3.40-7.10—VARA Programme. 3.40—Records. 4.40—For Children. 5.10—Records. 5.40—Light Music by "Musica" Conductor: v. d. Horst. 6.40—Talk. 7.0—Records.  
 7.10-8.40—VPRO Programme. 7.10—News; Talk. 7.40—Mlle Magdalena de Jong (Songs) and H. Schouwman (Pfte.). 8.10—Talk. 8.40-10.20—VARA Programme. 8.40

—VARA Augmented Orchestra, Conductor: Lohoff, Smitshuysen (Baritone). 9.40—Records. 10.10—News.  
 10.20—VPRO Religious Programme. 10.40-11.40—VARA Programme. 10.40—Records. 11.10—Light Music by the "Fantasia." Conductor: Walis.

## HILVERSUM (301.5 m.)

(Holland)  
 995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m.  
 KRO Programme.  
 7.40-8.55 a.m.—Records. 9.40—Records. 11.10—Religious Address. 11.40—News. 11.50 (approx.)—KRO Orchestra. Conductor: van 't Woud. In the interval, Records. 1.40—Haak (Organ). 2.40—Records. 3.40—Rie Ochel (Contralto) and Boshart (Pfte.). In the interval, Records. 4.20—Records.  
 4.50—KRO Melodists. Conductor: Lustenhouwer; at 5.40—Talk. 6.40—News; Talk; Liturgical Music. 7.40—News.  
 7.50 (approx.)—KRO Orchestra, etc. Conductor: van 't Woud. In the interval, Records.  
 9.10—Lily Mathé Cigány Band. 9.40—Records; at 10.10—News. 10.50—KRO Boys. Conductor: Lustenhouwer. Klein (Songs). 11.20-11.40—Records.

## KALUNDBORG (Denmark)

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—Brink Orchestra. 2.30 p.m.—Talk.  
 3.0—No More War—Opening of the World Congress for Peace from Christiansborg Castle. Addresses by Mr. George Lansbury and Lord Ponsonby.  
 3.50—Radio Orchestra. Conductor: Grøndahl. 4.50—Wireless Notes. 5.10—Talk. 5.25—Weather; Exchange; Markets. 5.50—Rikard Ekholm (Accordion). 6.20—Talk. 7.0—News. 7.30—Talk: Henrik Pontoppidan.  
 8.0—Excerpts, "Manon Lescaut" and "La Bohème" (Puccini) by the Radio Orchestra. Conductor: Hye-Knudsen.  
 8.30—"That Awful Night"—Play (Clausen).  
 9.0—Radio Orchestra. Conductor: Hye-Knudsen. London Suite (Eric Coates). Excerpts from Scenes Alsaciennes (Massenet). 9.40—Discussion: The Swimming Contests.  
 9.50—Riefing (Pfte.). Sonata (Scriabin). Jeux d'eau (Debussy). Reflets dans l'eau (Debussy). Général Lavine Eccentric (Debussy). 10.15—News.  
 10.35-11.10—Operetta Music, Radio Orchestra. Conductor: Hye-Knudsen. Overture, "Die geschiedene Frau" (Fall). Excerpts, "Viktoria and her Hussar" (Abraham). Waltz, "Der Zigeunerprimas" (Kál; mán). Excerpts, "Katinka" (Friml).

## KÖNIGSBERG (Heilsberg)

(Germany)  
 1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).  
 Transmits at intervals from 5.00 a.m. 12.0 noon—See Stuttgart. 2.0 p.m.—News; Talk; Variety. 3.30—Guessing Competition. 3.50—Reading. 4.10—Orchestra. 5.45—Periodicals.  
 6.0—See Leipzig. 7.0—Talks. 7.20—Wilhelm (Organ). 7.45—Topical.  
 8.0—See Stuttgart. 9.0—News. 9.10—"Soldier, Margret and Annermarie"—Sequence (Faas-Hartmann), with the Börschel Band, Lilly Pfeiff, Inge Kersten and Frank Hoffmann. 10.10—News. 10.30-12.0 m't.—See Deutschlandsender.

## LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).  
 Transmits at intervals from 5.50 a.m. 12.0 noon—Band. 1.0 p.m.—News. 1.15—Orchestra. 2.0—News; Records. 3.10—Talk. 3.30—Fairytale. 4.0—Records. 5.0—Markets. 5.10—Leipzig Students' Madrigal Choir. 5.40—Books.  
 6.0—Dresden Philharmonic. Conductor: Weber. Anny van Krusswyk (Soprano), Richter-Haaser (Pfte.). 7.45—Evening Review.  
 8.0—Saarbrücken Orchestra. Conductor: Jung. Hilde Anschütz (Soprano). Prelude, "Dés Liebesverbot" (Wagner). Serenade (Fiedler). Recitative and



Aria, "Figaro" (Mozart). Scherzo and Hochzeitszug (Suder). 9.0—News. 9.15—Fricke Band. 10.15—Reading. 10.30—News. 10.50-12.0 m't.—Dance Band.

LILLE (Radio PTT Nord)

(France) 1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Chamber Music. String Quartet in F (Beethoven). String Quartet (Smetana). 6.30—Educational. 7.0—News. 7.30—Talks. 7.45—See Paris (PTT). 8.0—Records. 8.5—Talk. 8.15—Dance Record. 8.20—For Farmers. 8.30—Station Orchestra. Conductor: Soret. Robervyl (Baritone) and Ariane Herbin (Soprano). Overture, "Sicilian Vespers" (Verdi). Selection, "Werther" (Massenet). Suite, Joyous Youth (Coates). Baritone Songs. Symphonic Dances (Grieg). Salut d'amour (Elgar). Suite, Gladys (Puguet). Soprano Songs. Canzonetta (Godard). Rhapsody (Brahms). Suite, In Malaga (Curzon). Selection, "Les Géorgiennes" (Offenbach). 10.30—News. 11.0 p.m.—12.45 a.m. (Saturday)—See Paris (Radio-Paris).

LYONS (PTT) (France)

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 7.0 p.m.—News. 7.30—Economics. 7.45—Report: The Cycle Tour of France. 8.0—Talks. 8.30—Chamber Music. Raymonde Millon (Soprano). Trio (Weber). Villanella (Pianelli). Danse de Flore (Campra). Scherzo (Chopin). Two Songs (Hue): (a) Le bateau rose, (b) Tête de femme. Pièces en concert (Couperin). Excerpts, Le Tombeau de Couperin (Ravel). Pièces de Ronsard (Roussel). Barcarolle (Faure). Toccata (Frescobaldi-Cassado). Two Pieces for Flute (Ferroud). Apaisement (Chausson). The Nightingale and the Rose (Rimsky-Korsakov). Five Impressions (Goossens). 10.30—News. 11.0—See Paris (Radio-Paris).

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon 7.45 p.m.—News. 7.55—Records: Famous Orchestras. 8.30—Talk: Firdusi, the Persian Aristocrat. 8.40-9.30—Carolina Segrera (Arias) with Herschel (Pfte.). Part I. Old Italian Arias. Aria, "Angelina sospendi" (Scarlatti). Per formare la beltà (Scarlatti). Per queste amare lacrime (Pergolesi). Miei pensieri datemi pace (Ziani). La speranza i cori affida (Bononcini). Part II. Modern Italian Arias. Fimirei l'ultimo canto (Alfano). Triste sera (Sinigaglia). La piccola strega (Mortari). Canto dell'ospite (Sinigaglia). Il Mago Merlino (Confalonieri).

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW. 5.45 p.m.—Music. 6.0—Operetta. 9.55—Kremlin Chimes. 10.5—English Talk: Soviet Frontier Heroes. 11.0—For Germany. 12.0 m't.—1.0 a.m. (Saturday)—For Spain. MUNICH (Germany) 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—Orchestra. 1.0 p.m.—News; Records. 2.0-3.0—See Deutschlandsender. 4.0—Markets. 4.15—Elisabeth Waldenau (Contralto) and Emmy Braun (Pfte.). 4.55—Talk. 5.15—Variety. 6.45—To be announced. 7.0—"The Magic of the Voice." Station Orchestra. Guest Conductor: Zallingef. Erna Berger (Soprano), Luise Willer (Contralto), Roswaenge (Tenor), and Hotter (Baritone). Operetta Music. 9.0—News. 9.10—Cabaret, with Schrammel Ensemble, Pamela Wedekind (Songs to the Lute), etc. 10.0—Time; News. 10.30-12.0 m't.—See Deutschlandsender.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW. 5.45 p.m.—Music. 6.0—Operetta. 9.55—Kremlin Chimes. 10.5—English Talk: Soviet Frontier Heroes. 11.0—For Germany. 12.0 m't.—1.0 a.m. (Saturday)—For Spain.

MUNICH (Germany)

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—Orchestra. 1.0 p.m.—News; Records. 2.0-3.0—See Deutschlandsender. 4.0—Markets. 4.15—Elisabeth Waldenau (Contralto) and Emmy Braun (Pfte.). 4.55—Talk. 5.15—Variety. 6.45—To be announced. 7.0—"The Magic of the Voice." Station Orchestra. Guest Conductor: Zallingef. Erna Berger (Soprano), Luise Willer (Contralto), Roswaenge (Tenor), and Hotter (Baritone). Operetta Music. 9.0—News. 9.10—Cabaret, with Schrammel Ensemble, Pamela Wedekind (Songs to the Lute), etc. 10.0—Time; News. 10.30-12.0 m't.—See Deutschlandsender.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 11.0 a.m. 5.0 p.m.—Café Concert. 6.0—Reading. 6.20—Report: The Lillehammer Exhibition. 6.50—News. 7.30—Time; For Farmers. 7.45—Petra Hendriksen (Pfte.) and Farkas (Cello). Suite for Pfte. (Machon). Sonata (Galliardi).

Elegy (Massenet). Bonne Recon- tre (Gabriel-Marie). Mazurka (Neruda). 8.30—Talk. 8.55—Cabaret on Records. 9.40—News. 10.0—Topical. 10.15-10.45—Talk with Songs by Mme Moss Johnsen: Botrel, The Poet of Brittany.

PARIS (Eiffel Tower)

(France) 1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 11.35 a.m. 8.0 p.m.—Television. 8.30—Concert. 9.0—Chamber Music. Lucien Verroust (Songs) and the Tzipine Trio. Trio (Mozart). Songs: (a) What shall I do to show how much I love her? (Purcell), (b) I attempt from Love's Sickness to fly (Purcell), (c) Arietta (Frescobaldi), (d) Song (Scarlatti). Pfte.: (a) Intermezzo (Brahms), (b) Noveltten (Schumann) Three Songs (Liszt). Violin: Nocturne and Tarantella (Szymanowski). Three Songs (Bondeville). Trio (Casella).

PARIS (Poste Parisien)

(France) 959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Records. 12.35—Exchange. 12.39—Records. 1.0—Amateur Detective Competition. 1.5—Records. 1.45—Strauss Waltz Records. 2.0 and 3.45—Exchange. 4.15—Report: The Cycle Tour of France. 4.35 and 6.0—Exchange. 6.5—Bridge Lesson. 6.20—Quartet in E minor (Beethoven) (Recorded). 6.40—Talk: Electricity. 6.53—Racing Results. 6.55—Sports. 7.0—News. 7.20—Talk. 7.25—Records of Albert Préjean. 7.40—Report: The Cycle Tour of France. 8.0—Topical. 8.5—"La bonne histoire." 8.20—"Under the Lamp"—Sketch (Diamant-Berger). 8.55-12.0 m't.—"La belle saison" (de Letraz, Delettre), from the Théâtre Marigny.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Science Talk. 5.10—Schubert Records. Entr'acte, "Rosamunde." Moment musical. Der Erlkönig. Pfte. Impromptu in B flat. Sercnade. Military March. Ave Maria. 5.30—Talks. 6.0—Geneviève Lacroix (Pfte.). 6.15—Germaine Ganiayre (Songs). 6.30—Denise Morand (Cello). 6.45—Records: Brittany in Music. 7.0—News; Topical. 7.45—Report (Recorded): The Cycle Tour of France. 8.0—News. 8.10—Records. 8.30—Variety. 9.0—See Brussels (No. 2). 10.30—News. 10.45-11.0—Records: Classical Dances. Minuet (Bach-Winter-nitz) by Kreisler (Violin). Gavotte (Weiss) by Segovia (Guitar). Musette (Glück).

PARIS (Radio-Paris)

(France) 182 kc/s (1,648 m.); 80 kW. Time Signals at 7.15 a.m., 12.30 p.m., 8.30 p.m. and 10.45 p.m. 6.50 a.m.—Records; at 7.0—Gym. 7.30—News. 8.0-8.30—Records. 10.15—Records. 11.40—Review. 11.45—Readings (Dahl). 12.15 p.m.—Talk: A Soviet Factory. 12.30—Deouza Orchestra. 1.15—Marty (Songs). 1.30—News; For Ex-Servicemen. 1.45—Souza Orchestra (contd.). 2.0—For Women. 2.15—Talk: A.D. 2000. 2.25—Film Review. 2.30—"La sirène enlisée"—Three-Act Play (Casona). 4.0—Charron Trio and Profit (Violin). Sonata (Sammartini). Trio in G (Haydn). Pfte. Pieces (Chopin): (a) Impromptu in A flat, (b) Two Mazurkas, (c) Waltz in E minor. Pfte. and Cello Sonata in C minor (Saint-Saens). 5.0—Concert from the American Conservatoire, Fontainebleau. Lucette Descaves-Truc (Pfte.). Cello Concerto (Cello). Pfte. Pieces: Carnaval (Leo). Pfte. Pieces: Carnaval (Glück), (b) Minuet (Valentin), (c) Adagio (Tartini), (d) Rondo (Bocherini). Pfte.: (a) Nocturne (Faure), (b) Le retour des mûlières (de Severac), (c) Bourrée fantasque (Chabrier), Malinconia (Sibelius). French Suite (Bazelaire). 6.30—Financial Talk. 6.45—Talk. 7.0—Mlle. Perelli (Songs). 7.15—Paule Talanier (Songs). 7.30—Mme Roger Mielos (Pfte.). Finale from the Moonlight Sonata (Beethoven). Danse villageoise (Chabrier).

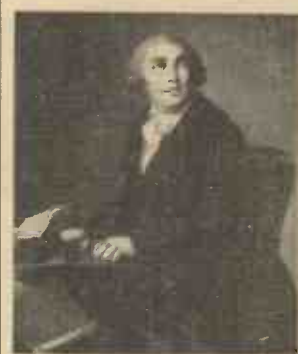
7.45—Anna Ferry (Songs). 8.0—Political Review. 8.15—Talk: Technics. 8.30—René Le Roy (Flute) and Pierre Jamet (Harp). Sonata (Blavet). Two Indian Folk Songs (arr. d'Harcourt). Sonatina (Inghelbrecht). 9.0—"The Montmartre Gazette"—Humorous Radio Journal, presented by Paul Cléruc. Part I: "The Café Momus"—Report. Part II: "Follow the Crowd!"—Revue (Cléruc); at 9.30 (approx.)—News. 10.30—Records: Light Music. 10.45—News. 11.0 p.m.—12.45 a.m. (Saturday)—Concert. Conductor: Rhené Baton. Corradina Mola (Harpischord). Overture, "Berenice" (Handel). Symphony in C (von Dittersdorf). Concerto in C for Harpsichord and Strings (Paisiello). Figures sonores (Delannoy). Fire Dance (Falla). Andalousie (de Grignon).

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 5.5 p.m.—See Brno. 5.40—Home Affairs. 5.45—Cultural Review. 5.55—Markets. 6.5—German Transmission: Talk; Reading; For Workers.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 5.5 p.m.—See Brno. 5.40—Home Affairs. 5.45—Cultural Review. 5.55—Markets. 6.5—German Transmission: Talk; Reading; For Workers.



Paisiello, one of the composers who forestalled Rossini with a "Barber of Seville." Radio-Paris is to broadcast a concerto by him in its 11 p.m. concert

6.45—News and Cultural Review in German. 7.10—Variety. 7.45—Talk. 8.0—Slovak Folk Songs (Schneider-Trnavsky) by Jarmila Ksirova. 8.15—"Don Juan's Disappointment"—Comedy (Celsi, trans. Fastrova). 8.55—Czech Philharmonic. Conductor: Kabelac. Jarmila Vavrdova (Soprano). Overture on Three Russian Songs (Rimsky-Korsakov). Soprano and Orchestra: Ollantay (Armando). Symphony in B flat (Schubert). 9.55—Records. 10.0—Time; News. 10.20—Report: Karlsbad Races. 10.25—Records. 11.0-11.15—News in Russian.

6.45—News and Cultural Review in German. 7.10—Variety. 7.45—Talk. 8.0—Slovak Folk Songs (Schneider-Trnavsky) by Jarmila Ksirova. 8.15—"Don Juan's Disappointment"—Comedy (Celsi, trans. Fastrova). 8.55—Czech Philharmonic. Conductor: Kabelac. Jarmila Vavrdova (Soprano). Overture on Three Russian Songs (Rimsky-Korsakov). Soprano and Orchestra: Ollantay (Armando). Symphony in B flat (Schubert). 9.55—Records. 10.0—Time; News. 10.20—Report: Karlsbad Races. 10.25—Records. 11.0-11.15—News in Russian.

RADIO-MEDITERRANÉE (France)

1,276 kc/s (235.1 m.); 27 kW. Transmits at intervals from 12.15 p.m. 7.0 p.m.—Talk. 7.15—Variety. 7.25—Amusement Guide; For Children. 7.30—From the Sports Club. 7.40—Light Music. 8.0—News; Exchange. 8.15—Dance Music. 8.30—Light Music. 9.5—Weather. 9.10—Variety. 10.0—News. 10.15—Dance Music.

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m.—Military Band. 7.0—News. 7.45—Music. 8.0—Light Music. 8.30—Cavalcade of the Stars. 8.45—Melodies. 9.0—Light Music. 9.30—Favourite Music. 9.45—Alfredo Campoli and his Orchestra. 10.0—Records. 10.15—Light Music. 10.30—Popular Music. 10.45—Records. 11.0—Symphony Music. 12.0 noon—Records of the Comedy Harmonists. 12.20 p.m.—Concert; at 12.35—News. 2.0—Records. 2.30—Report: The Paris Exhibition. 2.45—Light Music. 3.0—Ambrose and his Dance Band. 3.30—Light Music. 3.45—Records. 4.0—Music. 4.30—Records. 5.15—For Young People. 5.30—Records. 6.0—Children's Corner. 6.45—Talk; News; Racing. 7.0—Concert. 7.40—News. 8.0—Variety.

9.0—Concert by "La Rallée Rouennaise" Hunting Horn Ensemble. Conductor: Collemine. Mlle Bordes (Soprano), Mlle Nicole Nancy (Discuse), Henny-mayo (Songs to the Accordion), Lemoine (Flute), Morisse (Tenor), and Bernard (Bass). Hunting Horn Solos. Excerpts, "Carmen" (Bizet), "Mignon" (Thomas). Fables (Franc-Nohain). Flute Concerto in G (Mozart). 11.0—Café Concert. 12.0 m't.—Midnight Melodies. 12.30 a.m. (Saturday)—Light Music. 1.0-2.0—Dance Music.

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon. 9.10 p.m.—Weather (Icelandic, German, English). 9.20—Light Music. 9.55—Announcements. 10.0—Time; News. 10.30—Literary and Musical Programme.

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Naples, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15-5.50—Light Music. 6.50—Royal Geographical Society's Report. 7.0—Talk in French; Music; Announcements. 7.53—News in Foreign Languages. 8.10—Time; News. 8.30—Government Notes. 9.0—German Music. Conductor: La Rosa Parodi. 10.30 (approx.)—Dance Music. 11.0—News. 11.15—News in English. 11.30-11.50—Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.29 p.m.—Time; News. 12.40-1.30 and 5.0-6.0—See Bernmünster. 6.0—Ballet, "Les deux pigeons (Messenger). Conductor: Appia. 6.20—Reading. 6.30—French Opera Music. Radio Suisse romande Orchestra. Gavalda (Violin). Selection, "Romeo and Juliet" (Gounod). Meditation, "Thais" (Massenet). 7.0—Talk. 7.10—Recitation. 7.20—Talk. 7.30—Music. 7.45—Announcements. 7.50—News. 8.0—Report: The Cycle Tour of France. 8.5—Records. 8.40—See Monte Ceneri. 9.10-10.30—Radio Suisse romande Orchestra. Conductor: Haug. Overture, "The Lovely Galatea" (Suppe). Waltz (Strauss). Syncopation (Kreisler). Viennese March (Kreisler). Potpourri, The British Empire (arr. Hall). Potpourri, Fortissimo (Kalman-Hruby).

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m. 7.15 p.m.—News. 7.30—Play. 9.0—English Operetta and Film Music by the Radio Orchestra. Conductor: Hellman. Excerpts, "Goldiggers of 1937" (Arlen), "Careless Rapture" (Novello), "Swing Time" (Kern), "On your Toes" (Rodgers), "Tom Jones" (German). 9.45—News. 10.0-11.0—Radio Orchestra. Conductor: Hellman. Norrby (Cello). From the Fields and Groves of Bohemia (Smetana). Cello Concerto in B minor (Dvorak). Bohemian Dance (Weinberger).

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Chopin Recital by Othon Wetzel (Pfte.). Impromptu. Sonata. 5.30—Records. 5.45—Jean Weber (Saxophone), Jeanne Forster (Soprano). Saxophone: (a) Chant lyrique (Breilh-Decker), (b) Pâtres (Foret). Songs (de Bréville). Saxophone: (a) Nocturne (Montfauillard), (b) Dialogue joyeux (Montfauillard), (c) Fantaisie caprice (Mahler). 6.30—Educational. 7.0—News. 7.30—Talk. 7.45—Report: Cycle Tour of France. 8.0—News (German). 8.7—News. 8.20—Records. 8.30 (also Rennes-Bretagne)—"Ma soeur Anne"—Three-Act Play (Dumas), from the Odéon Theatre, Paris. 10.30—News. 11.0—News (German). 11.5—Concert from Paris (Radio-Paris).

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 12.0 noon—Orchestra. 2.0-3.0 and 4.0-6.0—See Deutschlandsender.

FRIDAY (July 23)

6.0—Topical. 7.0—Light Music. 8.0—"Götz von Berlichingen"—with the Microphone in the Footsteps of Goethe's Hero. 9.0—News. 9.15—Song Records. 10.0—Time; News. 10.20—Report: The Air Pageant at Zürich. 10.30—See Deutschlandsender. 12.0 m't.—1.0 a.m. (Saturday)—Concert. Part I: Station Orchestra. Conductor: Görlich. Schmitt-Walter (Baritone) and Giesen (Pfte.). Adagio, Oxford Symphony (Haydn). Der Lindenbaum (Schubert). Eine kleine Nachtmusik (Mozart). Part II: Records.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.30 a.m. 7.0 p.m.—Operetta Songs. 7.15—News. 7.45—Dance Music. 8.15—Light Music. 8.30—Excerpts, "A Waltz Dream" (O. Straus). 8.45—Light Music. 9.10—"Au Pays de Mistral"—Fantasy. 9.35—Tangos. 9.50—Paris Programme. 10.20—Orchestra. 10.35—Excerpts, "Werther" (Massenet). 10.50—Band. 11.0—Songs. 11.15—Orchestra. 11.35—Light Music. 11.50—Announcements.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15-5.50—Lucilla Bracco (Violin). Sonata (Schumann). Adagio (Bach). Allegro (Fiocco). Habanera (Ravel). Jota (Falla). 6.50—Royal Geographical Society's Report. 7.0—Light Music. Radio Orchestra. Conductor: Salerno. 7.40—News in Foreign Languages. 8.10—Time; News. 8.30—Government Notes. 9.0—"Bufere estive"—Three-Act Musical Comedy (Gentili). In the intervals, Talks. 11.0—News. 11.15-11.55—Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.45 a.m. 5.30 p.m.—Carinthian Composers (Weidt, Komauer, Jolly, Liley). Maria Weutz (Contralto), S. Jolly (Pfte.). F. Jolly (Violin). 6.0—Sports. 6.10—Talk: Travel in Austria. 6.25—Talk: Possibility and Reality. 6.50—Art Review. 7.0—News. 7.25—Lower Austrian Folk Music from Hubertendorf. Songs and Dances. 8.0—Ballad. 8.5—"Der Dummkopf"—Five-Act Comedy (Fulda). 10.10—News. 10.20—Thiel Dance Band. 10.45—Talk in Italian: A Walking Tour of Austria. 10.55—Announcements. 11.0-11.30—Dance Music (contd.).

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m. 12.3 p.m.—News. 12.15—Farmers' Letter-box. 12.25-1.0—Station Orchestra. Conductor: Górzynski. 3.45—Economics. 4.0 (from Lwów)—Talk for Invalids. 4.15—Kalecki (Pfte.). Prelude, Choral and Fugue (César Franck). Suite (Debussy). 4.45—Report: The Paris Exhibition. 5.0—Orchestra. Conductors: Furmanski and Czaplarski. March (Grit). Overture, "The Crown Diamonds" (Auber). By the Blue Hawaiian Waters (Ketelbey). Waltz (Waldteufel). Carnival Polonaise (Jaffe). Japanese Suite (Yoshitomo). Polka (Leopold). 5.50—Talk. 6.0—Programme Notes. 6.5—Talk. 6.10—Sandler Orchestra and Schmitt-Walter (Baritone) (Recorded). 6.50—Topical. 7.0—Symphony (Beethoven) (Records). 7.35—Luczaj (Songs). 7.50—Sports. 8.0 (from Poznań)—Kálmán Concert—Choir and Orchestra. Conductor: Kowalik. Xenia Grey (Soprano) and Roy (Tenor). Songs, "Herbstnövör." Excerpts, "Der Teufelsreiter." Selection, "The Gipsy Princess." Songs, "Countess Maritza"; at 8.45—News and Topical Talk. 9.45—Poetry. 10.0 (from Cracow)—Piszczyk (Soprano) and the Station Ensemble. Conductor: Nierychla. Suite, "The Taming of the Shrew" (Zilcher). Le rossignol (Krenek). Excerpts from the Sercnade (Róssa). 10.50—News; Press Review.



# SATURDAY July 24

## 2 p.m.

**ATHLONE**, Records.  
**BERLIN**, News. 2.15—Records.  
**BRESLAU**, News. 2.15—Variety from Deutschlandsender. **BRUSSELS** (1), 2.2—Darcy Orchestra. **BRUSSELS** (2), 2.2—Lecture Recital: Bach's Arias and Cantatas.  
**COLOGNE**, News. 2.15—Records.  
**DEUTSCHLANDSENDER** and **STUTTGART**, Variety.  
**FRANKFURT**, News. 2.10—Records.  
**HAMBURG**, News. 2.15—Music. **HILVERSUM** (1,875 m.), "The Melody Circle," 2.25—Records. 2.40—Amsterdam Chamber Orchestra. **HILVERSUM** (301.5 m.), 2.10—KRO Orchestra. 2.40—For Children. **KALUNDBORG**, 2.55—Radio Orchestra. **KÖNIGSBERG**, News; Talk. 2.15—Peter Arco, with Records.  
**LEIPZIG**, News. 2.15—Records.  
**MUNICH**, News; Sports. 2.20—Records.  
**PARIS (PTT)**, Talks. 2.30—Concert.  
**RADIO-PARIS**, Talks.

## 3 p.m.

**BERLIN**, Records. 3.15—Exchange. 3.30—Songs. 3.45—Sports.  
**BRESLAU**, Reading. 3.20—Strauss and Schillings Songs. **BRUSSELS** (1), Records: "Manon" (Massenet). **BRUSSELS** (2), Suite (Durllet) by the Composer (Pfte.) and Commissaris (Violin). 3.20—Darcy Orchestra.  
**COLOGNE**, Records. 3.15—Report. 3.45—Markets.  
**DEUTSCHLANDSENDER**, Announcements. 3.10—Roos Band.  
**FRANKFURT**, Records. 3.15—Economics. 3.30—"From the Niederwald to the Deutscher Eck."  
**HAMBURG**, Shipping; Markets. 3.25—Records. **HILVERSUM** (1,875 m.), Orchestra (cont.); Talk in the interval. **HILVERSUM** (301.5 m.), For Children. 3.40—Records. 3.55—KRO Melodists.  
**KALUNDBORG**, Radio Orchestra. 3.45—Folk Songs. **KÖNIGSBERG**, Börschel Band.  
**LEIPZIG**, Records. 3.20—For Children. 3.50—Markets.  
**MUNICH**, Reading. 3.20—"Aus des Knaben Wunderhorn"—Song Cycle (Siegfried Scheffer) (Recorded). 3.50—Markets.  
**PARIS (PTT)**, Concert (contd.). 3.30—Light Music from the Casino, Vichy.  
**RADIO-PARIS**, Talk. 3.15—Talk and Reading: Contemporary Russian Literature.  
**STUTTGART**, "A Sunday Excursion to German Beauty Spots."  
**VIENNA**, 3.15—Pfte. Quartet in E flat (Beethoven). 3.40—English Talk.

## 4 p.m.

**BRUSSELS** (1), Records: "Manon" (contd.). 4.55—News. **BRUSSELS** (2), Darcy Orchestra. 4.15—Records (Goossens, Schumann). 4.55—News.  
**HILVERSUM** (1,875 m.), Orchestra (contd.). 4.20—Esperanto Programme. **HILVERSUM** (301.5 m.), KRO Melodists. 4.40—Records.  
**KALUNDBORG**, Radio Orchestra. 4.56—Poems.  
**MUNICH** and **GERMAN STATIONS**, **BRATISLAVA**, **BRNO**, **BUDAPEST** (1), **PRAGUE**, **RADIO-PARIS** and **STOCKHOLM**, Act I, "Lohengrin" (Wagner) from the Festspielhaus, Bayreuth.  
**PARIS (PTT)**, Light Music (contd.). 4.30—Talk. 4.45—Light Music and Dance Music.  
**STRASBOURG**, Concert. 4.50—Exchange.  
**VIENNA**, English Talk (contd.). 4.10—News. 4.15—Records (Beethoven, Schubert).  
**WARSAW**, 4.30—Folk Ensemble.

## 5 p.m.

**ATHLONE**, 5.30—Tea-Time Music from Dublin.  
**BRATISLAVA**, See Munich. 5.10—See Prague. 5.40—Talk; Record. **BRESLAU**, See Munich. 5.10—Records. **BRNO**, See Munich. 5.10—See Prague. 5.40

—Literary and Musical Sequence in German. **BRUSSELS** (1), Talk. 5.15—Edith Almera and her Viennese Orchestra. **BRUSSELS** (2), Jan Broeckx (Pfte.). 5.30—Records. 5.45—de Nocker ('Cello). **BUDAPEST** (1), See Munich. 5.10—Cigány Band.  
**EIFFEL TOWER**, Molière Programme from the Grand Trianon, Versailles.  
**FRANKFURT**, See Munich. 5.10—Topical Review.  
**HILVERSUM** (1,875 m.), Esperanto Programme. 5.20—Literary Talk. 5.40—Records. **HILVERSUM** (301.5 m.), Talk. 5.10—KRO Melodists.  
**KALUNDBORG**, Poems. 5.25—Exchange. 5.50—Records.  
**LILLE**, Light Music.  
**MONTE CENERI**, **BEROMÜNSTER** and **SOTTENS**, Café Orchestra. 5.30—Books. 5.40—Song Records. **MUNICH** and **MOST GERMAN STATIONS**, Act I, "Lohengrin" (contd.). 5.10—"Pictures of the Hermitage"—Sequence (Recorded).  
**OSLO**, 5.10—Café Concert.  
**PARIS (PTT)**, Light Music and Dance Music. **PRAGUE**, See Munich. 5.10—Reading; Records. 5.40—Talks. 5.55—Sports (German).  
**RADIO-NORMANDIE**, Light Music; Records. 5.45—London Productions. **RADIO-PARIS**, See Munich. 5.10—Violin. 5.25—For Children.  
**STOCKHOLM**, See Munich. 5.10—For Children. 5.45—Records.  
**STRASBOURG**, For Young People. 5.30—Dance Records. 5.45—Concert. **STUTTGART**, See Munich. 5.10—Sound News Review.  
**TURIN** and **ROME**, News. 5.15—Records.  
**VIENNA**, Records (contd.). 5.15—Reading. 5.40—Talk.  
**WARSAW**, Folk Ensemble. 5.30—Talks.

## 6 p.m.

**ATHLONE**, 6.5—Pipe Band. 6.25—Talk. 6.35—Irish News. 6.45—News.  
**BEROMÜNSTER**, Talks. 6.30—Records. 6.45—Talk. **BRATISLAVA**, Play after Tolstoy (in Hungarian). 6.45—See Prague.  
**BRESLAU**, Records. 6.15—See Munich. **BRNO**, Sequence (contd.). 6.45—Music by Blind Composers. 6.35—Review. 6.45—See Prague. **BRUSSELS** (1), "La Paix chez soi"—One-Act Comedy (Courteline). 6.30—Records. **BRUSSELS** (2), de Nocker ('Cello). 6.15—Talk. 6.30—Records. 6.45—Reading.  
**BUCHAREST** and **RADIO-ROMANIA**, 6.3—Military Band.  
**BUDAPEST** (1), To be announced. **BUDAPEST** (2), 6.15—See Munich.  
**EIFFEL TOWER**, Molière Programme (contd.).  
**FRANKFURT**, Topical Review. 6.15—See Munich.  
**HILVERSUM** (1,875 m.), Records. 6.10—Ramblers Dance Band. 6.40—A Film. **HILVERSUM** (301.5 m.), Press Review. 6.25—Records.  
**KALUNDBORG**, Records. 6.20—Talk.  
**LILLE**, Light Music. 6.30—Records. 6.40—Talk. 6.50—Dance Records.  
**MUNICH** and **MOST GERMAN STATIONS**, "Pictures of the Hermitage" (contd.). 6.15—Act II, "Lohengrin" (Wagner) from Bayreuth.  
**OSLO**, For Children. 6.30—Economics. 6.50—News.  
**PARIS (PTT)**, Light Music and Dance Music. 6.45—Records.  
**PRAGUE**, Folk Play (in German). 6.45—News (German).  
**RADIO-NORMANDIE**, Children's Corner. 6.45—Talk; News. **RADIO-PARIS**, Records (Vivaldi, Bach). 6.15—See Munich. **ROME**, 6.10—Rural Programme. 6.50—Doplavoro Notes.  
**SOTTENS**, Songs for Children. 6.30—Records. 6.55—Chimes.  
**STOCKHOLM**, Records. 6.45—Reading. **STRASBOURG**, Concert. 6.30—Songs. **STUTTGART**, Sound News Review. 6.15—See Munich.  
**TOULOUSE**, Dance Music. 6.15—Songs. 6.35—Orchestra. 6.50—News. **TURIN**, 6.50—See Rome.  
**VIENNA**, Station Orchestra and

Violin (Verdi, Tchaikovsky, Ravel, Delius, Andress).  
**WARSAW**, Programme Notes. 6.15—Operetta Records. 6.50—Talk.

## 7 p.m.

**ATHLONE**, Radio Orchestra. 7.30—"Return to 1913."  
**BEROMÜNSTER**, Chimes; News. 7.25—Mandoline Band. 7.45—News. 7.55—Folk Music Evening: Yodelling Club, Ländler Band. **BRATISLAVA**, See Prague. 7.15—Jazz Band. 7.35—See Prague. **BRUSSELS** (1), Records. 7.25—Talk. 7.30—News. **BRUSSELS** (2), Light Orchestral. 7.30—Interview. **BUCHAREST** and **RADIO-ROMANIA**, Military Band. 7.25—Talk. 7.45—Romanian Folk Songs. **BUDAPEST** (1), To be announced. 7.15—Records. **BUDAPEST** (2), 7.0-7.45—See Munich.  
**EIFFEL TOWER**, News. 7.30—Talk. 7.45—Theatre and Film Review.  
**HILVERSUM** (1,875 m.), A Film. 7.10—Talk. 7.40—News. 7.55—VARA Orchestra. **HILVERSUM** (301.5 m.), Records; News; Talk; Report. 7.40—News. 7.50—Meditation, with Music.  
**KALUNDBORG**, News. 7.30—Talk.  
**LILLE** and **STRASBOURG**, News. 7.30—See Eiffel Tower. 7.45—See Paris (PTT).  
**MONTE CENERI**, 7.45—News. 7.55—Records. **MOSCOW**, Concert. **MUNICH** and **GERMAN STATIONS**, Act II, "Lohengrin" (Wagner) (contd.). 7.45—Report: "A Visit to the Villa Wahnfried."  
**OSLO**, News. 7.30—Station Orchestra.  
**PARIS (PTT)**, News; Topical Review. 7.45—Report: The Cycle Tour of France. **POSTE PARISIEN**, News. 7.20—Records. 7.40—Report: The Cycle Tour of France. **PRAGUE** and **BRNO**, News. 7.15—Records. 7.35—"The Slovak Princess" (Piskacek).  
**RADIO-NORMANDIE**, Concert. 7.40—News. **RADIO-PARIS**, See Munich. 7.45—Talk; Racing. **ROME**, Esperanto Talk; Music; Notes. 7.53—News in Foreign Languages.  
**SOTTENS**, Talks; Music. 7.45—News. **STOCKHOLM**, Reading. 7.15—News. 7.30—Cabaret.  
**TOULOUSE**, Film Songs. 7.15—News. 7.45—Orchestra. **TURIN**, Light Music. 7.40—News in Foreign Languages.  
**VIENNA**, News; Talk. 7.30—Address.  
**WARSAW**, Orchestra. 7.40—Topical. 7.50—Sports.

## 8 p.m.

**ATHLONE**, "Return to 1913" (contd.). 8.30—Old Time Songs.  
**BEROMÜNSTER**, Popular Evening (contd.). 8.40—"Der Wittig"—Berne Dialect Comedy (Zimmermann). **BRUSSELS** (1), Symphony Orchestra, Songs and Monologues. **BRUSSELS** (2), Light Orchestral with Bass. 8.45—Recitations. **BUCHAREST** and **RADIO-ROMANIA**, Romanian Folk Songs. 8.15—Salon Orchestra and Daia Ensemble. **BUDAPEST** (1), Records. 8.20—News. 8.45—See Munich. **BUDAPEST** (2), 8.20—Salon Orchestra.  
**EIFFEL TOWER**, Review (contd.). 8.30—From the Opera. **HILVERSUM** (1,875 m.), VARA Orchestra. 8.40—Hawaiian Trio. 8.55—VARA Orchestra and Songs. **HILVERSUM** (301.5 m.), Meditation (contd.). 8.15—"Slava" Russian Orchestra. 8.35—Play.  
**KALUNDBORG**, Reading. 8.30—For Youth. 8.40—Talk. 8.45—See Munich.  
**LILLE**, Sports. 8.10—Operetta Music. 8.30—Dramatic Programme.  
**MONTE CENERI**, Records. 8.30—"Treviso"—Sequence.  
**MOSCOW**, Concert. **MUNICH** and **GERMAN STATIONS**, A Visit to the Villa Wahnfried (contd.). 8.30—News. 8.45—Act III, "Lohengrin" (Wagner) from Bayreuth.  
**OSLO**, Station Orchestra. 8.45—Topical.  
**PARIS (PTT)**, News; Records. 8.30—Programme from the Salle Gaveau: (a) "Esther de Carpentras" (Milhaud); "Le Plumet du Colonel" (Sauguet). **POSTE PARISIEN**, Topical; Reading. 8.20—Records: The Adison Band. **PRAGUE**, **BRATISLAVA** and **BRNO**, "The Slovak Princess" (contd.).

**RADIO-NORMANDIE**, Nicole Marina. 8.20—Clarinet. 8.40—Records. **RADIO-PARIS**, Reviews. 8.30—Records. 8.45—See Munich. **ROME** and **TURIN**, Foreign News (contd.). 8.10—News. 8.30—Talk.  
**SOTTENS**, The Cycle Tour of France. 8.5—Radio Suisse romande Orchestra (Glinka, Tchaikovsky). 8.35—"The Proposal"—Play (Tchekov). 8.55—Radio Suisse romande Orchestra (Liadov, Rimsky-Korsakov). **STOCKHOLM**, Cabaret. 8.15—Talk. 8.45—Old Dance Music. **STRASBOURG**, News; Sports. 8.30—Alsatian Evening—Variety Concert.  
**TOULOUSE**, Orchestra. 8.15—Excerpts, "La vie parisienne" (Offenbach). 8.30—Military Band. 8.45—Light Music.  
**VIENNA**, Chimes. 8.30—Vienna Symphony Orchestra, Conductor: Konrath (Brahms, Beethoven, Wagner, and Liszt).  
**WARSAW**, For Poles Abroad. 8.45—News.

## 9 p.m.

**ATHLONE**, Old - Time Songs. 9.30—Variety.  
**BEROMÜNSTER**, Dialect Comedy (contd.). **BRATISLAVA**, 9.5—Xylophone. 9.25—See Prague.  
**BRNO**, 9.5—Talk. 9.25—See Prague. **BRUSSELS** (1), Liszt Records. 9.10—Monologue. 9.15—Symphony Orchestra (Rimsky-Korsakov, Mozart). **BRUSSELS** (2), Popular Concert from the Kursaal, Ostend. **BUCHAREST** and **RADIO-ROMANIA**, Orchestra, etc. (contd.). 9.30—News. 9.45—Café Concert. **BUDAPEST** (2), Salon Orchestra. 9.25—News.  
**EIFFEL TOWER**, From the Opéra (contd.).  
**HILVERSUM** (1,875 m.), Orchestra (contd.). 9.25—Sketch. 9.40—News. 9.45—Harps. **HILVERSUM** (301.5 m.), Orchestra (contd.). 9.10—Records. 9.40—KRO Melodists.  
**LILLE**, Dramatic Programme.  
**MONTE CENERI**, Sequence (contd.). 9.30—Records: Waltzes and Hot Jazz. **MOSCOW**, German Programme. **MUNICH** and **GERMAN STATIONS**, **BUDAPEST** (1), **KALUNDBORG** and **RADIO-PARIS**, Act III, "Lohengrin" (contd.).  
**OSLO**, Topical. 9.15—Old Dance Music. 9.40—News.  
**PARIS (PTT)**, From the Salle Gaveau (contd.). **POSTE PARISIEN**, Records (contd.). 9.10—The Gordon Highlanders. 9.25—Follow the Guide. 9.50—News. 9.55—Dance Records.  
**PRAGUE**, 9.5—See Brno. 9.25—Variety Concert from Podbrady.  
**RADIO-NORMANDIE**, Singing Competition for Amateurs.  
**ROME**, "Il marito scapolo" (Storaci). 9.40—Light Orchestral.  
**SOTTENS**, Orchestra (contd.). 9.55—"The Bear"—Play (Tchekov). **STOCKHOLM**, Old Dance Music. 9.30—Sports. 9.45—News.  
**STRASBOURG**, Alsatian Evening (contd.).  
**TOULOUSE**, Light Music. 9.50—Paris Programme. **TURIN**, Respighi Programme. Part I, "The Sleeping Beauty"; Part II, "Primavera."  
**VIENNA**, Symphony Orchestra (contd.).  
**WARSAW**, 9.5—Light Orchestral. 9.45—Press Review.

## 10 p.m.

**ATHLONE**, Variety. 10.30—News.  
**BERLIN**, **HAMBURG**, and **STUTTGART**, News. 10.30—Dance Music. **BEROMÜNSTER**, Dialect Comedy (contd.). 10.15—Report: The International Air Rally at Zürich. 10.30—Dance Records. **BRATISLAVA**, See Prague. 10.20—News (Hungarian). 10.35—Cigány Band.  
**BRESLAU**, News. 10.20—See Deutschlandsender. 10.30—Dance Music. **BRNO**, See Prague. 10.35—See Bratislava. **BRUSSELS** (1), News. 10.10—Brenders Dance Band. **BRUSSELS** (2), Symphony Concert (contd.). 10.30—News. 10.40—Records (Liszt, Lalo). **BUCHAREST** and **RADIO-ROMANIA**, Café Concert. 10.45—News (French, German, Romanian). **BUDAPEST** (1), 10.5—Jazz Band.  
**COLOGNE**, News. 10.20—Talk. 10.30—Dance Music from Munich.  
**DEUTSCHLANDSENDER**, News; Topical. 10.20—Report: The International Air Rally at Zürich. 10.30—Oboe and Harpsichord (Bach, Telemann). 10.45—Weather.

**EIFFEL TOWER**, From the Opéra (contd.).  
**FRANKFURT**, News. 10.30—Dance Music from Munich.  
**HILVERSUM** (1,875 m.), Harps. 10.10—Concert. 10.40—Records. **HILVERSUM** (301.5 m.), KRO Melodists. 10.10—News. 10.35—KRO Boys.  
**KALUNDBORG**, News. 10.20—Folk Music. **KÖNIGSBERG**, News; Sports. 10.35—Dance Music from Munich.  
**LEIPZIG**, News. 10.15—"The Laughing Summer Sun"—Sequence with Music (Recorded).  
**LILLE**, Dramatic Programme. 10.30—News.  
**MOSCOW**, 10.5—French Programme. **MUNICH**, News. 10.20—Dance Music, with Schrammel Band, Songs, and Saxophone.  
**OSLO**, Topical. 10.15—Reading. 10.45—Dance Music.  
**PARIS (PTT)**, from the Salle Gaveau (contd.). 10.30—News. 10.45—Song Records. **POSTE PARISIEN**, Dance Records. 10.30—Variety Records.  
**PRAGUE**, News; Records. 10.35—See Bratislava.  
**RADIO-NORMANDIE**, Singing Competition (contd.). **RADIO-PARIS**, Records. 10.15—Light Music. 10.45—News. **ROME**, Light Orchestral. Talk in the interval. 10.45—Dance Music.  
**SOTTENS**, "The Bear" (Tchekov) (contd.). 10.15—Dance Records. **STOCKHOLM**, Dance Music. **STRASBOURG**, Alsatian Evening (contd.). 10.30—News.  
**TOULOUSE**, Paris Programme. 10.35—Argentine Orchestra. 10.35—Excerpts, "The Dubarry" (Millöcker). 10.50—Orchestra.  
**TURIN**, Respighi Programme (contd.).  
**VIENNA**, Symphony Orchestra (contd.). 10.10—News. 10.40—Symphony in C minor (Mahler) (Recorded).  
**WARSAW**, Light Orchestral. 10.50—News.

## 11 p.m.

**BARCELONA**, News. 11.15—Records. **BERLIN**, **DEUTSCHLANDSENDER**, **HAMBURG** and **STUTTGART**, Dance Music. **BRATISLAVA**, **BRNO** and **PRAGUE**, Cigány Band. **BRESLAU**, Dance Music. **BRUSSELS** (1), Records. **BRUSSELS** (2), Records (contd.). 11.15—Brenders Dance Band. **BUDAPEST** (1), Cigány Band.  
**EIFFEL TOWER**, from the Opéra (contd.).  
**HILVERSUM** (1,875 m.), Records. **HILVERSUM** (301.5 m.), KRO Boys. 11.10—Records. **KALUNDBORG**, Dance Music, with Pfte. Interludes.  
**LEIPZIG**, "The Laughing Summer Sun" (contd.). 11.30—Dance Music from Munich.  
**MOSCOW**, Spanish Programme.  
**MUNICH**, **COLOGNE**, **FRANKFURT** and **KÖNIGSBERG**, Dance Music (contd.).  
**OSLO**, Dance Music.  
**RADIO-NORMANDIE**, Singing Competition (contd.). **RADIO-PARIS** and **PARIS (PTT)**, Dance Music. **ROME**, News. 11.15—News (English). 11.30—Dance Music.  
**STRASBOURG**, News (German). 11.5—Dance Music from Radio-Paris.  
**TOULOUSE**, Light Music. 11.50—Announcements. **TURIN**, Respighi Programme (contd.). 11.30—Dance Music.  
**VIENNA**, Symphony (Mahler) (contd.).

## 12 midnight

**BARCELONA**, News (Italian, German, French, Portuguese).  
**BERLIN**, **COLOGNE**, **DEUTSCHLANDSENDER**, **HAMBURG** and **STUTTGART**, Dance Music. **BUDAPEST** (1), 12.5—News.  
**FRANKFURT** and **STUTTGART**, Hauck Band and Records.  
**KALUNDBORG**, Dance Music, with Pfte. Interludes.  
**MOSCOW**, Spanish Programme.  
**RADIO-NORMANDIE**, Melodies. 12.30—Light Music. **RADIO-PARIS**, **PARIS (PTT)** and **STRASBOURG**, Dance Music.  
**ROME**, Dance Music.  
**TURIN**, Dance Music.

## 1 a.m. (Sunday)

**RADIO-NORMANDIE**, Dance Music.



NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45 (D)—Cinema Organ. 11.20 (D)—Second Test Match: England v. New Zealand. 11.35 (D)—Orchestra. 12.30 p.m. (D)—Dance Records. 1.0 (D)—Theatre Orchestra. 1.15 (D)—See 11.20 a.m. 1.30 (D)—Theatre Orchestra. 2.0 (D) (ex. Scottish)—Records. 2.30 (D)—Davis Cup, Challenge round; Polo, Empire Cup: Ireland v. Hurlingham. 5.0—See 11.20 a.m. 5.15—Nat Gonella and his Georgians. 6.0—The First News. 6.15—Sports Bulletin. 6.30 (ex. D)—Vivian Joseph (Cello). 6.30 (D)—Ben Morgan (Tenor). 6.45—Phyllis Sellick (Pfte.). The Barrington Quartet. 7.30—The BBC Presents The A B C. 8.0—Music-Hall. 9.0—The Third News. 9.20—The Paris Exhibition. 9.40—Reginald Foort at the BBC Theatre Organ, with Robert Easton (Bass). 10.15—BBC Orchestra (Section C): Gwen Catley (Soprano). 11.10—Ambrose and his Orchestra. 11.30—Late News Summary. 11.40-12.0—See 11.10.

REGIONAL

For Time Signals, see Monday. 10.15-10.45 a.m. (ex. Western)—National. 10.45 (ex. Western)—Records. 11.15 (ex. Western)—Troise and his Mandoliers. 11.45 (ex. Western)—Records. 12.15 p.m. (ex. Western)—Ivy Parkin (Pfte.). 12.45 (ex. Western)—"Old Leicester Square"—M. Willson Disher. 1.0 (ex. Western)—Theatre Orchestra. 2.0 (ex. Western)—Records. 2.30 (ex. Northern, Western)—The Bernard Crook Quintet. 2.30 (Northern)—The Miners' Service, from Durham Cathedral. 3.15 (ex. Western; Northern 3.45)—Records. 4.0 (ex. Western)—BBC Northern Ireland Orchestra: David Richardson (Baritone). 5.0 (ex. Western)—Children's Hour. 5.0 (Western)—National. 6.0 (Regional, Welsh, N. Ireland)—Callender's Senior Band: The St. David's Singers. 6.0 (Midland)—Light Music. 6.0 (Northern)—The Prudhoe Gleemen. 6.0 (Scottish)—Silver Band. 6.30 (Midland)—Croquet: England v. Australia. 6.30 (Northern)—Johnny Rosen and his Band. 6.45 (Scottish)—Gaelic Talk. 7.0 (ex. Western)—Second News. 7.20 (ex. Western)—Regional Announcements. 7.30 (Regional, Northern)—Arthur Catterall (Violin); R. J. Forbes (Pfte.). 7.30 (Midland)—The Alfred Cave Quartet. 7.30 (Western)—Glastonbury Town Silver Band: Hilda Blake (Soprano). 7.30 (Welsh)—"Around and About" (in Welsh). 7.30 (N. Ireland)—BBC Northern Ireland Orchestra (String Section); The Eglantine Ladies' Trio. 7.30 (Scottish)—Variety. 7.40 (Welsh)—"Old Salts." 7.50 (Scottish)—Scots Songs. 8.10 (Welsh)—BBC Welsh Orchestra: Nancy Ellis (Soprano). 8.15 (ex. Welsh, Scottish)—"Is that the Law?" 8.20 (Scottish)—Reading. 8.25 (ex. Welsh)—Bayreuth Festival, from the Festspielhaus, Bayreuth: Bayreuth Festival Orchestra: Aet 3, "Lohengrin" (Wagner). 9.0 (Welsh)—Porthcawl Entertainments. 10.0 (ex. Western)—News Summary. 11.25 (Northern 10.40, Scottish 10.35)—Ambrose and his Orchestra. 10.25 (Northern)—The Miners' Gala Day at Durham. 10.25 (Scottish; Northern 10.30)—Sports News. 11.30 (ex. Western)—Late News Summary. 11.40-12.0 (ex. Western)—Ambrose and his Orchestra (contd.).

Hours of Transmission in British Summer Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—Tea Time Music from Jury's Hotel, Dublin. 6.5—St. Francis Boys' Guild Pipe Band, Glasgow. 6.25—For the Summer: Hiking No. 3. 6.35—Irish News Feature. 6.45—News. 7.0—Radio Orchestra. 7.30—Return to 1913—A Dramatised Version of a critical Year. 8.30—Old Time Songs—Choir and Radio Orchestra. 9.30—Variety. 10.30—News. 11.0—National Anthem.

BARCELONA (EAJ1)

(Spain) 795 kc/s (377.4 m.); 7.5 kW. Transmits at intervals from 9.0 a.m. 10.0 p.m.—Time; News. 10.10—Talk; Records; at 11.0—Time; News. 12.0 m't.—1.0 a.m. (Sunday)—News (Italian, German, French, Portuguese).

BEROMÜNSTER

(Switzerland) 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 6.15-6.35 a.m.—Gym. 12.0 noon—Records: Cigany Music. 12.30 p.m.—News. 12.40-2.30—Programme from Berne. 12.40—Light Music and Dance Music by the Hajek Band. 1.30—Weekly Parliamentary Review. 1.45—Notes for Children. 1.50—Radio Review. 2.5-2.30—Records: Light Music. 4.30—To be announced. 5.0-6.0—See Monte Ceneri. 6.0-7.0—Programme from Berne. 6.0—Legal Talk. 6.10—Talk: The Week's Accident. 6.20—Talk: First Aid in the Home—Fainting, Heat Stroke and Apoplexy. 6.30—Records: Songs of the Ticino. 6.45—Engineering Talk. 7.0—Chimes from Zürich Churches. 7.15 (from Berne)—Time; News. 7.25 (from Berne)—Berne Mandoline Band. 7.45—News. 7.55 (from Berne)—Folk Music Evening. Thun Yodling Club and Ländler Band. 8.40 (from Berne)—"Der Wittig"—Berne Dialect Comedy in Four Acts (Andreas Zimmermann) (arr.

9.5—Topinka (Xylophone). Russian Dances (Sommerfeld). Spanish Waltz (Topinka). Fantasia (Bode). 9.25-10.20—See Prague. 10.20—News (Hungarian). 10.35-11.30—Hagyman Cigany Band from Trencanske-Teplice.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). 5.0 a.m.—See Königsberg. 5.45—Gym. 6.0—Motto; Records. 6.30-8.0—See Berlin. 8.30—See Stuttgart. 9.30—Greetings. 10.30-11.0—For Children. 11.30—Weather; Water Level; Markets. 11.45—Talk: Silesians as Pioneers. 12.0 noon-2.0 p.m.—Orchestra, Conductor: Völkel. Triumphal March, "Aida" (Verdi). Oriental Suite (Amadei). Liszt Fantasia (Urbach). Dream Pictures (Lumbye). Waltz, Hofballtänze (Lanner). March, Im Sturm treu (Wiese). Selection, "Andrea Chénier" (Giordano). Waltz, Ich pfücke einen Strauss von Strauss (Zimmer). Love Songs (Huppertz). March, Heil unseren

SATURDAY (July 24)

12.0 noon—Records. 12.30 p.m.—Shipping. 12.31—Light Orchestral. 1.0—News. 1.10—Salon Orchestra. Féron (Violin). Waltz (Lincke). Violin Souvenir d'Arad (Huber). La lettre à Manon (Gillet). 1.30—Records. 2.0—Art Notes. 2.2—Darcy Orchestra. 3.0—Records: "Manon" (Massenet). 4.55—News. 5.0—Talk: The Third Workers' Olympiad. 6.15—Edith Almera and her Viennese Orchestra from the Taverne du Palace Hotel. 6.0—"La Paix chez soi"—One-Act Comedy (Courteline). 6.30—Records. 7.25—Medical Talk. 7.30—News. 8.0—I.N.R. Symphony Orchestra. Conductor: Dejoncker. Mme Ladon-Duchâtelet (Songs). Overture, "Der Freischütz" (Weber). Excerpts, "Le Cid" (Massenet). Songs from: (a) "Samson and Delilah" (Saint-Saëns). (b) "Jean de Nivelles" (Delibes). (c) La Glu (Dupont). Rédemption (Franck). In the intervals, Monologues. 9.0—Records: Légende de St. François de Paule marchand sur les flots (Liszt) by Ciampi (Pfte.). 9.10—Monologue. 9.15—I.N.R. Symphony Orchestra (contd.). Easter Overture (Rimsky-Korsakov). Jupiter Symphony (Mozart). In the interval, Monologue. 10.0—News. 10.10—Brenders Dance Band. 11.0-12.0 m't.—Records.

9.0—Records: Légende de St. François de Paule marchand sur les flots (Liszt) by Ciampi (Pfte.). 9.10—Monologue. 9.15—I.N.R. Symphony Orchestra (contd.). Easter Overture (Rimsky-Korsakov). Jupiter Symphony (Mozart). In the interval, Monologue. 10.0—News. 10.10—Brenders Dance Band. 11.0-12.0 m't.—Records.

BRUSSELS (No. 2)

(Belgium) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 5.0-5.10 a.m.—Homing - Pigeon Notes. 6.37-9.0—Records; News; Gym. 12.0 noon—Records. 12.30 p.m.—Salon Orchestra. Conductor: Féron. 1.0—News. 1.10—Light Orchestral Music, Conductor: Walpot. 1.30—Records: Light Music. 2.0—Shipping. 2.2—Lecture-Recital on Bach's Arias and Cantatas. 3.0—Suite (Durllet) by Hubert Commissaris (Violin) and the Composer (Pfte.). 3.20—Luc Darcy Orchestra. Greetings to Vienna (Dostal). Overture, "Poet and Peasant" (Suppé). Selection, "White Horse Inn" (Stolz-Benatzky). Waltz Potpourri (Robrecht). Schubert Potpourri (Salabert). 4.15—Records. Pièces en trio (Goossens). Quintet in E flat (Schumann). 4.55—News. 5.0—Jan Broeckx (Pfte.). Fantasia and Fugue (Bach). Scherzo in C sharp (Chopin). Berceuse (Chopin). The Tempest (Liapunov). 5.30—Records. 5.45—Jean de Nocker (Cello). Sonata in F (Marcello). Maundy Thursday at Midnight (Turina). Waltz (Jongen). Hungarian Rhapsody (Popper). 6.15—Talk: Modern Intellectual Tendencies. 6.30—Records. 6.45—Gerard Walschap reads. 7.0—Light Orchestral, Conductor: Walpot. Wladimir Resnik (Bass). Egyptian March (Strauss). In a Chinese Temple Garden (Ketelbey). Bass: The Kremlin Chimes (Kharobalaba). In Buddha's Realm (Armandola). Two Pieces from the Oriental Suite (Poppy). Bass: Trepak (Mussorgsky). 7.30—Interview on the Flemish National Singing Festival. 8.0—Light Orchestral Music, Conductor: Walpot. Wladimir Resnik (Bass). Overture, "Morning, Noon, and Night" (Suppé). Rhapsody in B (Hartung). Aria, "The Prophet" (Meyerbeer). Waltz, Ange d'amour (Waldteufel). Song of the Flea (Mussorgsky). Tyrolean Folk Dances (Hruby). 8.45—Recitations. 9.0—Popular Concert from the Kursaal, Ostend. 10.30—News. 10.40—Records. Spanish Rhapsody (Liszt). Namouna (Lalo). 11.15-12.0 m't.—Brenders Dance Band.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—For Farmers. 12.5-1.30—See Prague. 1.30—Industrial Report. 1.40—For Farmers. 1.45—Records. 2.0—See Prague. 2.20—News. 2.30—Records. 2.40-3.0—Talk. 3.45-4.0—See Prague. 4.0—See Munich. 5.10-5.40—See Prague. 5.40—Literary and Musical Programme (German). 6.15—Music by Blind Composers. Waltz (Perman). Polka (Suda). Memories (Glasz). Waltz for Flute and Pfte. (Suda). 6.35—Moravian Review. 6.45-9.5—See Prague. 9.5—Talk. 9.25-10.35—See Prague. 10.35-11.30—See Bratislava.

BRUSSELS (No. 1)

(Belgium) 620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m.—Homing Pigeon Notes. 6.37-9.0—Records; Gym; News.

PRINCIPAL EVENTS

8.30 Eiffel Tower: From the Opéra. 8.30 Paris (PTT): Two operas. 9.0 Turin: Two Respighi operas. OPERETTAS 7.35 Prague: "A Slovak Princess." 9.0 Rome: "Il marito scapolo." RECITALS 7.45 Bucharest: Romanian folk songs. 8.0 Vienna: Chimes from all Churches. 9.45 Hilversum (1,875 m.): Two harps. 10.15 Radio-Paris: Pfte., light songs. PLAYS 6.0 Brussels 1: "La paix chez soi." 7.30 Athlone: "Return to 1913." 8.40 Beromünster: Dialect comedy. LAST NEWS BULLETINS, see Monday DANCE MUSIC 9.40 Hilversum (301.5 m.); 9.55, Poste-Parisien; 10.0, Stockholm; 10.5, Budapest. 1; 10.10, Brussels 1; 10.15, Sottens; 10.20, Munich, etc.; 10.25, Regional; 10.30, Berlin, Beromünster, etc.; Breslau; 10.45, Oslo, Rome; 11.0, Kalundborg, Radio-Paris; 11.5, Paris (PTT), Strasbourg; 11.10, National; 11.15, Brussels 2. MISCELLANEOUS 2.30 National: Davis Cup; Polo. 8.0 National: Music Hall.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. 6.0 a.m.—Motto; Weather; Gym. 6.30-8.0—Raatzke Band, March, Regimentskameraden (Richter). Capricé (Kutsch). Verträumte Nacht (Löhner). Chinese Legend (Schulenberg). Flitterwochen (Noack). Polka, Tritsch-Tratsch (Strauss). March, Blaue Junges (Ludwig). Liebeslieder-Walzer (Strauss). Fantasia on "Schenk man sich Rosen in Tirol" (Ortleb). In der Gondel (Glahn). Ballet Music, In Tüll und Spitzen (Siede). Tanzende Marionetten (Walter). The Chiming Clock (Blaauw). March (de Micheli); at 7.0—News. 8.0—Gym. 8.20—Prudentia Olbrich (Pfte.). 8.30—See Stuttgart. 9.30—Records. Wo die Zitronen blühen (Strauss). Kleiner Schmetterling (Plessow). Lockere Finger (Hauck-Kletsch). Lollypops (Reser). Wedding Waltz (Dohnányi). Berlin, wie es weint und lacht (Conradi). Romanian Melody (Knümann). In trauer Stunde (Lüdecke). Perpetuum mobile (Fischer). Selection, "Der Tenor der Herzogin" (Künneke). Clarinet Polka (Hauck). March of the Penguins (Myers). March, "The Gipsy Baron" (Strauss). 10.30—Markets. 11.15—Rooz Band. 12.0 noon-2.0 p.m.—See Breslau; at 1.0—Midday Review. 2.0—News. 2.15—Records. 3.15—Exchange; Markets. 3.30—Girls' Camp Songs. 3.45—Sports. 4.0-10.0—See Munich. 10.0—News. 10.30 p.m.—1.0 a.m. (Sunday)—Dance Music. Egon Kaiser Band; Waldemar Hass Quintet.

Greyerez-Rych. 10.15—Report: The International Air Rally at Zürich. 10.30-11.0 (from Berne)—Dance Records.

BORDEAUX-LAFAYETTE

(France) 1,077 kc/s (278.6 m.); 35 kW. Transmits at intervals from 6.30 a.m. 11.45 a.m.—Station Orchestra, Conductor: Guiraud, with M. Favard (Raconteur). Overture, "Glady's" (Puget). Waltz, "L'espace (Waldteufel). Selection, "Barbe bleue" (Offenbach). Anecdotes: (a) Un petit brin d'accent (Andreziun - Medinger). (b) L'as des galeijers (Forvyl-Derossi-Silvain). (c) Pourquoi j'adore le midi (Cazol-Calabrese). Selection, "Pochette surprise" (Verdun). Amina (Lincke). March, 23 de Julio (Casabianca). 12.30-1.0 p.m.—See Paris (PTT). 1.0—Concert. 1.45—Weather; Water Level. 1.50-2.0—Records. 4.0-10.0—See Munich. 10.0—News.

BRATISLAVA

(Czechoslovakia) 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 12.5 p.m.—Records. 12.10—News. 12.15—Records. 12.25-1.30—See Prague. 1.30—Talk. 1.45—Records. 2.0—News (German). 2.5—News (Hungarian). 2.15—Shipping. 2.20—Records. 2.30—Talk: My Native Land. 2.40-3.0—Records. 3.45-4.0—See Prague. 4.0—See Munich. 5.10-5.40—See Prague. 5.40—Talk. 5.55—Record. 6.0—Hungarian Transmission. Reading; "Three Old Men"—Play after Tolstoi (Kaczar). 6.45-7.15—See Prague. 7.15—Vasica Jazz Band. 7.35—See Prague.

Fahnen (Kochmann); at 1.0—News. 2.0—News; Exchange. 2.15—Variety from Deutschlandsender. 3.0—Reading (Volberg). 3.20—Strauss and Schillings Songs by Hedwig Trzesioch (Conralto). Part I. Strauss. Morgen. Die Verschwiegenen. Wozu noch, Mädchen, soll es frommen. Die Nacht. Die Zeitlose. Breit über mein Haupt. Liebeshymnus. Part II. Schillings. Julinacht. Wie wundersam. Aus den Nibelungen. 4.0—See Munich. 5.10—Records. 6.15-10.0—See Munich. 10.0—News. 10.20—Report: The International Air Rally at Zürich. 10.30-12.0 m't.—Station Dance Band.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—For Farmers. 12.5-1.30—See Prague. 1.30—Industrial Report. 1.40—For Farmers. 1.45—Records. 2.0—See Prague. 2.20—News. 2.30—Records. 2.40-3.0—Talk. 3.45-4.0—See Prague. 4.0—See Munich. 5.10-5.40—See Prague. 5.40—Literary and Musical Programme (German). 6.15—Music by Blind Composers. Waltz (Perman). Polka (Suda). Memories (Glasz). Waltz for Flute and Pfte. (Suda). 6.35—Moravian Review. 6.45-9.5—See Prague. 9.5—Talk. 9.25-10.35—See Prague. 10.35-11.30—See Bratislava.

BRUSSELS (No. 1)

(Belgium) 620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m.—Homing Pigeon Notes. 6.37-9.0—Records; Gym; News.



**SATURDAY (July 24)**

Daia Ensemble. 9.30—Sports; News.  
9.45—Café Concert. 10.45—News (French, German, Romanian).

**BUDAPEST (No. 1)**

(Hungary)  
546 kc/s (549.5 m.); 120 kW.  
Transmits at intervals from 6.45 a.m. to 12.5 p.m.—Akorn Quintet. 12.45—News. 1.0—Bohrandt and Weidinger Salon Orchestras. 2.40—News. 3.50—Talk on the following Programme.  
4.0—See Munich.  
5.10 (approx.).—Mursi Cigány Band. 6.0—To be announced.  
7.15—Records. 8.20—News.  
8.45—See Munich.  
10.5—Javor Jazz Band.  
11.0—Vidák Cigány Band. 12.5 a.m. (Sunday)—News.

**BUDAPEST (No. 2)**

(Hungary)  
359.5 kc/s (834.5 m.); 18 kW.  
6.15 p.m.—See Munich. 7.45—To be announced. 8.20—Station Salon Orchestra. 9.25—News.

**COLOGNE (Germany)**

658 kc/s (455.9 m.); 100 kW.  
5.50 a.m.—Hymn; Weather; Gym; News. 6.30-8.0—See Berlin. 8.0—Weather; Water Level; Anniversaries; Gym. 8.30—See Stuttgart. 9.30—Records. 9.45—News. 10.0-10.30—For Children.  
12.0 noon-1.45 p.m.—See Breslau; at 1.0—News and Greetings. 1.45—Report: The Athletic Tournament at Düsseldorf. 2.0—News. 2.15—Records. 3.15—Report: A Day in a Girls' Camp in Sevelen. 3.45—Markets. 4.0-10.0—See Munich. 10.0—Time; News. 10.20—Talk: The Eve of the German Motor Grand Prix at the Nürburgring. 10.30—Dance Music from Munich. 12.0 m't.-1.0 a.m. (Sunday)—Dance Music from Berlin.

**DEUTSCHLANDSENDER**

(Germany)  
191 kc/s (1,571 m.); 60 kW.  
6.0 a.m.—Chimes; Motto; Records. 6.30-8.0—See Berlin; at 7.0—News. 9.40-10.0—Gym. 10.30-11.0—For Children. 11.15-11.30—Weather. 11.40—For Gardeners.  
12.0 noon-1.45 p.m.—See Königsberg; at 12.55-1.15—Time and Greetings. 1.45—News. 2.0—Variety. 3.0—Weather; Exchange; Programme Notes. 3.10—Light Music by the Roos Band.  
4.0-10.0—See Munich. 10.0—News; Topical. 10.20—Report: The International Air Rally at Zürich.  
10.30—Schleif (Oboe) and Bittner (Harpisichord). Fantasia in C minor (Bach). Sonata G minor (Telemann).  
11.0 p.m.-12.55 a.m. (Sunday)—Dance Music from Berlin.

**FRANKFURT (Germany)**

1,195 kc/s (251 m.); 25 kW.  
Cassel, etc. See Sunday.  
6.0 a.m.—Hymn; Motto; Gym. 6.30-8.0—See Berlin; at 7.0—News. 8.0—Water Level; Weather; Gym.  
8.30—Records. 'Guten Morgen, liebe Sonne (Boehmet). Flower Waltz, Nutcracker Suite (Tchaikovsky). Song, "Mirella" (Gounod). Polka, "The Bartered Bride" (Smetana). Selection, "Boccaccio" (Suppé). March of the Sirdar (Ippolitov-Ivanov). Selection, "The Merry Widow" (Lehar). Libellentanz (Kalthoff). Die Sonne hat den Rhein geküsst (Schmalstich). Rosen und Nelken (Jäger). Es muss Sommer sein (Schmideder). Eine kleine Insel liegt im blauen Meer (Gabriel). Glückliche Reise (Künneke). 9.30-9.45—For Housewives. 11.30—Programme Notes; Markets. 11.40—Local News.  
12.0 noon-2.0 p.m.—See Breslau; at 1.0 p.m.—News. 2.0—News.  
2.10—Records. Potpourri of Marches, Alle mit uns (Robrecht). Ja, wenn ein Mädlein Hochzeit hat (Blume). Studentenpolka (Müllacker). Bei der blonden Kathrein (Leux). Matrosenstreich (Rathke). Ich geh' bloss mit dem Hund herunter (Bernauer). Holz und Holz (Rixner). Es lebe die Gemütlichkeit (Carlos).

Rhythmic Moments (Pörschmann). Heut bin ich glücklich als glücklich (Jary). Clarinet Polka (Francis). Song (Sarony). Ungarwein (Ritter). Was macht uns nie Verdruss? (Carlos). Pfliffikus (Munsonius). Lustig und fadel (Dietrich). Mack und Mort (Mortimer). Hinein, ins sonnige Leben am Rhein. Tiroler Holzhacker-Baum (Wagner). Die Soldaten-Marie (Haas). Blitz und Donner (Esther).  
3.15—Industrial Review. 3.30—From the Niederwald to the Deutsches Eck—"Boys and Girls on a Rhine Trip."  
4.0-10.0—See Munich; at 5.10-6.15—Topical Review. 10.0—Time; News.  
10.30—Dance Music from Munich. 12.0 m't.-1.0 a.m. (Sunday)—Franz Hauck Band; Records in the intervals.

**HAMBURG (Germany)**

904 kc/s (331.9 m.); 100 kW.  
Bremen, etc. See Sunday.  
5.45 a.m.—Motto; Weather. 5.50—Talk for Farmers. 6.0-8.0—Hensing Band. Gym and News in the intervals. 8.0-8.15—For Housewives.  
10.30 (from Stettin)—Band, Conductor: Garmatter. March, Von Ost nach West (Pirwitz). Overture, "The Thieving Magpie" (Rossini). Waltz, "Berliner Luft" (Lincke). Selection, "Il Trovatore" (Verdi). A Morning in SansSouci (Kockert). Egyptian Serenade, Amina (Lincke). Potpourri, The Good Old Times (Rhode). March, Die Ostmark ruft (Neumaier). 11.45—Weather.  
12.0 noon (from Stettin)—Band, Conductor: Garmatter. March, General Litzmann (Kutzner). Overture, "The Lovely Galatea" (Suppé). Waltz, Secrets of the Adige (Carena). Potpourri, Under the Flags of Austria (Kliment). Die Heinzelmännchen (Eilenberg). Potpourri, Im Krug zum grünen Kranze (Rhode). March, Die Pommern kommen (Meissner). 1.0—Weather; Midday Review.  
1.15—Orchestra from Breslau. 2.0—News. 2.15—Music. 3.0—Shipping. 3.15—Markets.  
3.25—Records. Song from "Der Wildschütz" (Lortzing). Clog Dance, "Tsar and Carpenter" (Lortzing). Aria from "The Barber of Seville" (Rossini). Marche Joyeuse (Chabrier). Furiant, "The Bartered Bride" (Smetana). Waltz, Accelerationen (Strauss).  
4.0-10.0—See Munich. 10.0—News. 10.30 p.m.-1.0 a.m.—See Berlin.

**HILVERSUM (1,875 m.)**

(Holland)  
160 kc/s; 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m.  
7.40 a.m.—VARA Programme. Records.  
9.40—VPRO Service.  
10.0 a.m.-7.10 p.m.—VARA Programme. 10.0—Jong (Organ); Hetty Beck (Recitations); "Fantasia." Conductor: Walis; Records. 11.40—Records. 12.40-1.25 p.m.—The Flierefluiter. Conductor: v.d. Horst. 1.40—The Melody Circle. Conductor: Wins. 2.25—Records.  
2.40—Amsterdam Chamber Orchestra. Conductor: Krelage; Talk. 4.20—Esperanto Programme. 5.20—Literary Talk. 5.40—Records.  
6.10—The Ramblers Dance Band. Conductor: Masman. 6.40—Film. 7.10—VPRO Talk.  
7.40 till Close—VARA Programme. 7.40—News.  
7.55—VARA Orchestra. Conductor: v. Roekel. 8.40—Klima Hawaiian Trio.  
8.55—VARA Orchestra. Conductor: v. Roekel; Songs. 9.25—Sketch. 9.40—News.  
9.45—J. Jong and Margot Broeders (Harps). 10.10—Concert by "Fantasia." Conductor: Walis. 10.40-11.40—Records.

**HILVERSUM (301.5 m.)**

(Holland)  
995 kc/s; 15 kW until 8.40 p.m.; 60 kW from 8.40 p.m.  
KRO Programme.  
7.40-8.55 a.m.—Records. 9.40—Records. 11.10—Religious Address. 11.40—News. 11.50 (approx.)—KRO Orchestra. Conductor: van 't Woud; at 12.40 p.m.—Records; News. 1.40—For Young People. 2.10—KRO Orchestra (contd.). 2.40—For Children. 3.40—Records.  
3.55—KRO Melodists, Conductor: Lustenhouwer. Klein (Songs). 4.40—Records; Talk. 5.10—KRO Melodists (contd.). 6.0—Press Review. 6.25—Records; News; Talk; Report. 7.40—News.

7.50 (approx.)—Meditation with Music.  
8.15—"Slawa" Russian Orchestra, etc. Conductor: Schablowsky; at 8.35—Play. 9.10—Records.  
9.40—KRO Melodists, Conductor: Lustenhouwer. Klein (Songs). 10.10—News.  
10.35—KRO Boys, Conductor: Lustenhouwer. Klein (Songs). 11.10-11.40—Records.

**KALUNDBORG (Denmark)**

240 kc/s (1,250 m.); 60 kW.  
Relays Copenhagen, 1,176 kc/s (255.1 m.).  
7.0 a.m.—Gym. 8.30—Service from Copenhagen Cathedral. 10.0—Annual Meeting of the Jutland Horticultural Society from the Hotel Royal, Esbjerg. Talk: The Development and Future of Horticulture. 10.58—Weather; Fish Markets. 12.0 noon—Bendix String Ensemble.  
2.55 p.m.—Radio Orchestra. Conductor: Hyc-Knudsen. Edith Darn (Songs). The Gladiators Farewell (Blankenburg). Over-

ture, "Banditenstreich" (Suppé). Frühlingsglaube (Schubert). Italian Fantasia (Leopold). Waltz (Tchaikovsky). Folk Songs. Overture, "The Bohemian Girl" (Balfe). Prelude (Svendsen). Sophie Waltz (Lumbye). Polka-Mazurka, Plappermäulchen (Strauss). Selection, "Oh, Kay" (Gershwin). March, "Sunny" (Kern).  
4.56—Poems. 5.25—Weather; Exchange; Markets. 5.50—Records. 6.15—Weather. 6.20—Talk: The National Sanatorium at Hald. 7.0—News. 7.30—Talk. 8.0—Reading (Pontoppidan). 8.30—For Youth. 8.40—Talk on the following Programme.  
8.45—See Munich. 10.0—News. 10.20—Folk Music. Radio Orchestra. Conductor: Grøndahl. Norwegian Melodies (Grieg-Nielsen). Värmland Rhapsody (Aterberg). Slav Dance (Dvořák). Gopak; "The Fair at Sorotchinsk" (Mussorgsky).  
11.0 p.m.-1.0 a.m. (Sunday)—Magnussen Dance Band with Interludes on Three Ptes.; at 12.0 m't.—Chimes.

**LEIPZIG (Germany)**

785 kc/s (382.2 m.); 120 kW.  
Relayed by Dresden, 1,285 kc/s (233.5 m.).  
5.50 a.m.—News; Motto; Weather. 6.30-8.0—See Berlin; at 7.0—News. 8.0—Gym. 8.20—Pfte. Records. 8.30—See Stuttgart. 9.30—Talk. 9.45—Exchange. 9.55-10.0—Water Level. 10.30-10.45—Weather; Programme Notes. 11.50—Anniversaries.  
12.0 noon-2.0 p.m.—See Breslau;



By Courtesy of the German Railways Bureau  
Maria Müller and Franz Völker, the Elsa and Lohengrin in to-day's Bayreuth Festival performance. Here they are Sieglinde and Siegmund in a former Bayreuth performance of "Die Walküre"

ture, "Banditenstreich" (Suppé). Frühlingsglaube (Schubert). Italian Fantasia (Leopold). Waltz (Tchaikovsky). Folk Songs. Overture, "The Bohemian Girl" (Balfe). Prelude (Svendsen). Sophie Waltz (Lumbye). Polka-Mazurka, Plappermäulchen (Strauss). Selection, "Oh, Kay" (Gershwin). March, "Sunny" (Kern).  
4.56—Poems. 5.25—Weather; Exchange; Markets. 5.50—Records. 6.15—Weather. 6.20—Talk: The National Sanatorium at Hald. 7.0—News. 7.30—Talk. 8.0—Reading (Pontoppidan). 8.30—For Youth. 8.40—Talk on the following Programme.  
8.45—See Munich. 10.0—News. 10.20—Folk Music. Radio Orchestra. Conductor: Grøndahl. Norwegian Melodies (Grieg-Nielsen). Värmland Rhapsody (Aterberg). Slav Dance (Dvořák). Gopak; "The Fair at Sorotchinsk" (Mussorgsky).  
11.0 p.m.-1.0 a.m. (Sunday)—Magnussen Dance Band with Interludes on Three Ptes.; at 12.0 m't.—Chimes.

**KÖNIGSBERG (Heilsberg)**

(Germany)  
1,031 kc/s (291 m.); 100 kW.  
Relayed by Danzig, 1,303 kc/s (230.2 m.).  
5.0 a.m.—Börschel Band. 5.45—Notes for Farmers. 6.0—Gym. 6.30-8.0—See Berlin. 8.0—Prayers; Gym. 8.30-9.30—See Stuttgart. 10.45—Weather. 11.50—Markets.  
12.0 noon-2.0 p.m.—Station Orchestra, Conductor: Brückner. Serenade (Trunk). Selection, "Rigoletto" (Verdi). Auf der Wanderschaft (Klughardt). Overture, "Der Waffenschmied" (Lortzing). Suite, Kindermärchen Suite (Lothar). Waltz, Dreams on the Ocean (Gungl). Two Hungarian Dances (Brahms); at 12.55-1.15—Time and News. 2.0—News. 2.10—Anniversaries.

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1,031 kc/s (291 m.); 100 kW.  
Relayed by Danzig, 1,303 kc/s (230.2 m.).  
5.0 a.m.—Börschel Band. 5.45—Notes for Farmers. 6.0—Gym. 6.30-8.0—See Berlin. 8.0—Prayers; Gym. 8.30-9.30—See Stuttgart. 10.45—Weather. 11.50—Markets.  
12.0 noon-2.0 p.m.—Station Orchestra, Conductor: Brückner. Serenade (Trunk). Selection, "Rigoletto" (Verdi). Auf der Wanderschaft (Klughardt). Overture, "Der Waffenschmied" (Lortzing). Suite, Kindermärchen Suite (Lothar). Waltz, Dreams on the Ocean (Gungl). Two Hungarian Dances (Brahms); at 12.55-1.15—Time and News. 2.0—News. 2.10—Anniversaries.

**LILLE (Radio PTT Nord)**

(France)  
1,213 kc/s (247.3 m.); 60 kW.  
Transmits at intervals from 6.30 a.m. to 5.0 p.m.—Light Music from Marseilles (PTT). 5.45—Music. 6.30—Violin Records. 6.40—For Housewives. 6.50—Dance Records. 7.0—News.  
7.30—See Paris (Eiffel Tower). 7.45—See Paris (PTT).  
8.0—Sports. 8.10—Operetta Music. 8.30—Dramatic Programme. 10.30—News.  
11.30-12.0 m't.—Dance Music from Munich.

**LILLE (Radio PTT Nord)**

(France)  
1,213 kc/s (247.3 m.); 60 kW.  
Transmits at intervals from 6.30 a.m. to 5.0 p.m.—Light Music from Marseilles (PTT). 5.45—Music. 6.30—Violin Records. 6.40—For Housewives. 6.50—Dance Records. 7.0—News.  
7.30—See Paris (Eiffel Tower). 7.45—See Paris (PTT).  
8.0—Sports. 8.10—Operetta Music. 8.30—Dramatic Programme. 10.30—News.

**MONTE CENERI**

(Switzerland)  
1,167 kc/s (257.1 m.); 15 kW.  
12.0 noon—Records. 12.30 p.m.—News. 12.40—Records: Opera Arias. 1.30-1.45—Weekly Tourist Report. 5.0—Zrinsky Orchestra from the Café Huguenin. 5.30—Book Review. 5.40-6.0—Records: Songs of Lombardy. 7.45—News. 7.55—Records: Light Music. 8.30—"Trevano"—Sequence for the Exhibition in the Castle at Trevano.  
9.30-10.0—Records. Part I. Waltzes. Part II. Hot Jazz.

**MOSCOW (No. 1) (Russia)**

172 kc/s (1,744 m.); 500 kW.  
12.30 p.m.—Dutch Programme. 1.30—Music. 1.45—Programme Notes. 2.0—Dramatic Programme. 3.15—For Children. 4.0—News. 4.15—Music. 4.30—Programme from Kiev. 7.0—Concert. 9.0—German Programme. 9.55—Krem-

lin Chimes. 10.5—French Programme. 11.0-1.0 a.m. (Sunday)—Spanish Programme.

**MUNICH (Germany)**

740 kc/s (405.4 m.); 100 kW.  
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).  
6.0 a.m.—Motto; Weather. 6.10—Gym.  
6.30-8.0—See Berlin. 8.0-8.20—Gym.  
8.30-9.30—Schirmer Band. Kühberger (Accordion). March, Für Freiheit und Frieden (Rosenlöcher). Waltz, Frühlingsblumen (Schmid). Two Polkas (Pörschmann). Die Post kommt (Eilenberg). Potpourri (Haunholter). Hungarian Comedy Overture (Kéler-Béla). Wanderlieder-Marsch (Lindemann). Polka, Kavallerie (Ziehrer). Zigeunerweisen (Mahr). Mazurka, Schottisch (Ritzberger). Flüsternde Tasten (Schradler). Berchtesgadener Ländler (Holzapfel). Galop, Schwamm drüber (Müllacker).  
11.0—Markets; Peasant Dances; Talk; News.  
12.0 noon—Military Band from Bayreuth. Entry of the Guests from "Tannhäuser" (Wagner). Overture, "Herzog Wildfang" (S. Wagner). Die Teilskapelle (Liszt). Selection, "Hansel and Gretel" (Humperdinck). Four Marches.  
1.0 p.m.—News. 1.15—Records. 2.0—News; Exchange. 2.10—Weekly Sports Bulletin. 2.20—Records: Light Music. 3.0—Reading, Die Abschiedssymphonie (Marchall). 3.20—"Aus des Knaben Wunderhorn"—Song Cycle (Sigfried Scheffer). Hanna Eschenbrücher and Ernst Conrad Haase (Songs). The Station Choir, Fiedler (Speaker) (Recorded). 3.50—Markets.  
4.0-10.0—"Lohengrin" (Wagner) from the Festspielhaus, Bayreuth. Conductor: Heinz Tietjen. Chorus-Master: Friedrich Jung. Cast: Ludwig Hofmann, Franz Völker, Maria Müller, Jaro Prohaska, Margarete Klose and Herbert Janssen.  
4.0—Act I, "Lohengrin."  
5.10—"Pictures of the Hermitage"—Sequence (arr. August Schmitt) (Recorded). Anny van Kruijswyk (Coloratura Soprano), Carl Carus (Flute), Arthur Zapf (Harpisichord), String Quartet and Rosa Beschoren, Hans Schleicher and August Schmitt (Speakers).  
6.15—Act II, "Lohengrin."  
7.45—Report: A Visit to Villa Wahnfried. Commentary by Peter Althaus; Prof. Kittel plays on Wagner's Piano; Anecdotes of the Bayreuth Festival during the past thirty years. 8.30—Time; News. 8.45—Act III, "Lohengrin."  
10.0—Time; News.  
10.20-12.0 m't.—Dance Music. Station Dance Band, Conductor: Michalski; Munich Schrammel Band; Hannele Franck (Songs); Albert Bräu (Saxophone).

**MUNICH (Germany)**

740 kc/s (405.4 m.); 100 kW.  
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).  
6.0 a.m.—Motto; Weather. 6.10—Gym.  
6.30-8.0—See Berlin. 8.0-8.20—Gym.  
8.30-9.30—Schirmer Band. Kühberger (Accordion). March, Für Freiheit und Frieden (Rosenlöcher). Waltz, Frühlingsblumen (Schmid). Two Polkas (Pörschmann). Die Post kommt (Eilenberg). Potpourri (Haunholter). Hungarian Comedy Overture (Kéler-Béla). Wanderlieder-Marsch (Lindemann). Polka, Kavallerie (Ziehrer). Zigeunerweisen (Mahr). Mazurka, Schottisch (Ritzberger). Flüsternde Tasten (Schradler). Berchtesgadener Ländler (Holzapfel). Galop, Schwamm drüber (Müllacker).  
11.0—Markets; Peasant Dances; Talk; News.  
12.0 noon—Military Band from Bayreuth. Entry of the Guests from "Tannhäuser" (Wagner). Overture, "Herzog Wildfang" (S. Wagner). Die Teilskapelle (Liszt). Selection, "Hansel and Gretel" (Humperdinck). Four Marches.  
1.0 p.m.—News. 1.15—Records. 2.0—News; Exchange. 2.10—Weekly Sports Bulletin. 2.20—Records: Light Music. 3.0—Reading, Die Abschiedssymphonie (Marchall). 3.20—"Aus des Knaben Wunderhorn"—Song Cycle (Sigfried Scheffer). Hanna Eschenbrücher and Ernst Conrad Haase (Songs). The Station Choir, Fiedler (Speaker) (Recorded). 3.50—Markets.  
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7.45—Report: A Visit to Villa Wahnfried. Commentary by Peter Althaus; Prof. Kittel plays on Wagner's Piano; Anecdotes of the Bayreuth Festival during the past thirty years. 8.30—Time; News. 8.45—Act III, "Lohengrin."  
10.0—Time; News.  
10.20-12.0 m't.—Dance Music. Station Dance Band, Conductor: Michalski; Munich Schrammel Band; Hannele Franck (Songs); Albert Bräu (Saxophone).

**MUNICH (Germany)**

740 kc/s (405.4 m.); 100 kW.  
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).  
6.0 a.m.—Motto; Weather. 6.10—Gym.  
6.30-8.0—See Berlin. 8.0-8.20—Gym.  
8.30-9.30—Schirmer Band. Kühberger (Accordion). March, Für Freiheit und Frieden (Rosenlöcher). Waltz, Frühlingsblumen (Schmid). Two Polkas (Pörschmann). Die Post kommt (Eilenberg). Potpourri (Haunholter). Hungarian Comedy Overture (Kéler-Béla). Wanderlieder-Marsch (Lindemann). Polka, Kavallerie (Ziehrer). Zigeunerweisen (Mahr). Mazurka, Schottisch (Ritzberger). Flüsternde Tasten (Schradler). Berchtesgadener Ländler (Holzapfel). Galop, Schwamm drüber (Müllacker).  
11.0—Markets; Peasant Dances; Talk; News.  
12.0 noon—Military Band from Bayreuth. Entry of the Guests from "Tannhäuser" (Wagner). Overture, "Herzog Wildfang" (S. Wagner). Die Teilskapelle (Liszt). Selection, "Hansel and Gretel" (Humperdinck). Four Marches.  
1.0 p.m.—News. 1.15—Records. 2.0—News; Exchange. 2.10—Weekly Sports Bulletin. 2.20—Records: Light Music. 3.0—Reading, Die Abschiedssymphonie (Marchall). 3.20—"Aus des Knaben Wunderhorn"—Song Cycle (Sigfried Scheffer). Hanna Eschenbrücher and Ernst Conrad Haase (Songs). The Station Choir, Fiedler (Speaker) (Recorded). 3.50—Markets.  
4.0-10.0—"Lohengrin" (Wagner) from the Festspielhaus, Bayreuth. Conductor: Heinz Tietjen. Chorus-Master: Friedrich Jung. Cast: Ludwig Hofmann, Franz Völker, Maria Müller, Jaro Prohaska, Margarete Klose and Herbert Janssen.  
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6.15—Act II, "Lohengrin."  
7.45—Report: A Visit to Villa Wahnfried. Commentary by Peter Althaus; Prof. Kittel plays on Wagner's Piano; Anecdotes of the Bayreuth Festival during the past thirty years. 8.30—Time; News. 8.45—Act III, "Lohengrin."  
10.0—Time; News.  
10.20-12.0 m't.—Dance Music. Station Dance Band, Conductor: Michalski; Munich Schrammel Band; Hannele Franck (Songs); Albert Bräu (Saxophone).

**OSLO (Norway)**

260 kc/s (1,153.8 m.); 60 kW.  
Fredrikstad, etc. See Sunday.  
Transmits at intervals from 11.10 a.m. to 5.10 p.m.—Café Concert. 6.0—For Children. 6.30—Talk. 6.50—News; Announcements.  
7.30—Time; Station Orchestra, etc. 8.45—Topical.  
9.15—Old Dance Music by the Akre Trio. 9.40—News. 10.0—Topical. 10.15—Reading.  
10.45-11.30—Dance Music.

**PARIS (Eiffel Tower)**

(France)  
1,456 kc/s (206 m.); 7 kW.  
Transmits at intervals from 8.30 a.m. to 5.0 p.m.—Molière Programme from the Grand Trianon, Versailles. 7.0—News; Topical. 7.30—Talk: The Middle Classes in Belgium. 7.45—Theatre and Film Review.  
8.30 (Also Lyons (PTT))—From the Opéra.

**PARIS (Poste Parisien)**

(France)  
959 kc/s (312.8 m.); 60 kW.  
7.10 a.m.—Fanfare; Records; at 7.30—News; at 8.10—Dietetics; and at 8.30—News. 9.0-10.30—Records. 11.45—Report: The Cycle Tour of France. 12.0 noon—Exchange. 12.5 p.m.—Records: Moroccan Music. 12.30—Records: Soldier Songs. 12.45—Radio Prize-Winners. 1.0—Amateur Detective Competition. 1.15—Records. 1.35—Records of the Armin Cigány Band. 1.30—Exchange. 1.50-2.0—Records



of Charpini and Brancato. 4.0 — Report: The Cycle Tour of France. 4.30—Exchange. 6.0—Exchange. 6.5—Records of Marian Anderson. 6.15 — Roman Catholic Notes. 6.35 — Records. 6.40 — Foreign Press Review. 6.50 — Record. 6.53 — Racing Results. 6.55 — Sports Notes. 7.0 — News. 7.12 — Amusements. 7.20 — Records. 7.40 — Report: The Cycle Tour of France. 8.0 — Topical. 8.5 — "La bonne histoire." 8.20 — Adison Band Records. 9.10 — The Gordon Highlanders. 9.25 — "Follow the Guide" — "Place des Vosges" (Diamant-Berger-Nohain). 9.50 — News. 9.55 — Dance Records. 10.30-11.0 — Variety Records.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 11.30 a.m. — Records; Markets; Exhibition Notes; Tourist Report. 12.0 noon—Golden Orchestra. Jean Sorbier (Songs). 12.30 p.m.—Report: The Cycle Tour of France (Recorded). 12.45—News. 1.0—Golden Orchestra (cont.). 2.0 —For Women. 2.10—Talk: Contemporary Dramatic Art. 2.30—Concert for Hospital. Mme Rainvyl (Songs); Violette d'Ambrosio (Violin); Varennes (Songs); and Timmy (Recitations). 3.30—Light Music from the Casino, Vichy. 4.30—Talk: The Opening of the New Rooms at the Louvre. 4.45—Light Music and Dance Music—Gras Orchestra. Paule Sandra (Songs). 6.45—Records: Music and Songs of Provence. 7.0—News; Topical Review. 7.45 —Report: The Cycle Tour of France. 8.0—News. 8.10—Records. 8.30 (Also Marseilles (PTT))—From the Salle Gaveau. "Esther de Carpentras" (Milhaud); "Le Plumet du Colonel" (Sauguet). National Orchestra. Conductor: Rosenthal. Raugel Choir; Odette Ertraud, Louis Arnoult, Prigent, Lucien Lovano, Guénot, Clémenceau, Jean Planel, Germaine Cernay, and Yvonne Faroche. 10.30—News. 10.45—Song Records. 11.0—Weather. 11.5 p.m.—1.0 a.m. (Sunday) —Dance Music from Paris (Radio-Paris).

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW. Time Signals at 7.15 a.m. and 10.45 p.m. 6.59 a.m.—Records: Serenades. 7.0—Gym. 7.15—Instrumental Records. 7.30—News; Press Review. 8.0-8.30—Records: Paris. 10.15—Landscapes in Music—Records. 11.0—Records: French Jazz Bands. 11.30—Records: Austrian Music. 12.0 noon—Light Orchestra. Conductor: André. Les Pantins de Violette (Adam). Three Pieces (Gillet): (a) La Lettre de Manon, (b) Loin du bal, (c) Babilage. 12.15 p.m.—Economic Review. 12.30—Light Orchestra (cont.). Overture, "Fra Diavolo" (Auber). Venetian Serenade (Piöret). Selection, "Martha" (Flotow). Waltz Suite, Venezia (Desormes). Overture, "Gillette de Narbonne" (Audran). Ballet, "Philemon et Baucis" (Gounod). 1.15—Mme Jane Montange (Offenbach, Terrasse and Casadesus Songs). 1.30—News; Review in Verse. 1.45—Light Orchestra (cont.). Selection, "Josephine vendue par ses seurs" (Roger). March, A Française (Costa). 2.0—Talk: Impressions of America. 2.15—Talk: The Colonies. 2.30—Talk: French Comedies. 2.45—Talk: M. Bergeret at the Exhibition. 3.15—Talk and Reading: Contemporary Russian Literature. 4.0—See Munich. 5.10—Hélène Armitz (Violin). Air (Matheson). Minuet (Porpora-Kreisler). Andante (Fauré). Dance of the Green Devil (Cassado). 5.25—For Children. 6.0—Records: Chamber Music. Concerto a quattro (Vivaldi), by the Pro Arte Quartet. Andante (Bach) by Casals (Cello). 6.15—See Munich. 7.45—Talk: Dancing Displays. 7.55 —Racing. 8.0—Political Review. 8.20—Radio-Liberté—Review. 8.30—Records: Allegro (Schumann) by Mme Tagliaferro. Andante (Fauré) by Mme Tagliaferro and Denise Soriano. 8.45—See Munich. 10.0—Records: French Music. 10.15—Light Music by Line Viala,

Pierre Bayle and Jacque-Simonot. Pfte., Songs. 10.45—News. 11.0 p.m.—1.0 a.m. (Sunday)—Bouillon Dance Band.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. 6.0-8.5 a.m. — Call; News; Records; Gym. 9.35 — Police Messages. 9.45 — Press Review; Weather. 10.5 — Press Review (German). 10.10 — Water Level; Record. 10.15 — German Talk for Women. 10.30 — Records. 11.5 — Salon Orchestra. Conductor: Balsánek. Mlejnik and Vacek (Songs). March, The Castle of Karlstein (A. Wagner). Polka (Benes). Gipsy Song (Cink). Fox-trot (Jankovec). Waltz, A Nightingale was singing (Balsánek). Waltz, When I look in your eyes (Blahnik). Song, The Fairest Love (Tichy). Foxtrot-March, Prague (Stelibsky). Polka, Rosy (Blaha). Waltz, St. Adalbert (Benes). Polka, Old Prague (Pilat). Song, Hradcany (Hasler). Polka (Vejvoda). Marching Song (Voldan). 11.55 — Markets. 12.0 noon — For Farmers. 12.5 p.m. — Record. 12.10—Water Level; Records. 12.25 — News. 12.35 — Orchestra from Kosice. 1.30 — Industrial Report. 1.40 — Records. 2.0 — "A Merry Week-end" — Revue (in German). 2.20 — Records. 2.30 — See Bratislava. 2.40-3.0 — Records. 3.45—Weather. 3.50 — Talk on the following programme. 4.0—See Munich. 5.10 — Reading; Records. 5.40 —Talk. 5.50—For Farmers. 5.55 — German Transmission. Part I. Sports. Part II. Tief drin im Böhmerwald—a Folk Play. 6.45 — News and Weather (German). 6.55 — Topical Talk (German). 7.0 — Time; News; Political and Economic Review. 7.15 — Records: Songs of the Highroad. 7.35 — "A Slovak Princess" — (Rudolf Piskacek). 9.5—See Brno. 9.25—Variety Concert from Poděbrady. FOC Orchestra. Conductor: Pékárek. Srubek (Violin). Leiss (Songs); Letfus (Pfte.). A Norwegian Bridal Procession (Grieg). Violin and Pfte.: Jota aragonesa (Sarasate). Hindu Song from "Sadko" (Rimsky-Korsakov). Violin and Orchestra: Minuet (Kubelik). Gopak from The Fair at Sorotchinsk" (Mussorgsky). Folk Song (Novak). A Village Market in Carpathian Russia (Skvor). Slovak Folk Song (Novak). Moravian Folk Song (Novak). Violin and Orchestra: Serenade (Drdla). Romance (Svendsen). Waltz (Dvořák). 9.55 — Records. 10.0 — News; Sports; Review. 10.20 — Records. 10.35-11.30—See Bratislava.

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m. — Military Band. 7.0 — News. 7.45 — Records. 8.0 — Light Music. 8.30 — Records. 8.45 — Melodies. 9.0 — Light Music. 9.30 — Favourite Melodies. 9.45 — Light Music. 10.0 — Records. 10.15 — Marches. 10.30 — Popular Music. 10.45 — Light Music. 11.0 — Chansonnettes. 12.0 noon — Records of Gilberte Legrand and Willy Maury. 12.20 p.m. — Records of Charpini and Brancato. 12.35—News. 1.0 — English and American Dance Music. 1.40 — Records of Tity Quentin and his Orchestra. 2.0 — Records. 2.30 — Report: The Paris Exhibition. 2.45 — Light Music. 3.15—Records. 3.30 —Light Music. 4.0 — Records. 4.30 — Light Music. 5.15 — Records. 5.30 — Light Music. 5.45 — Current London Productions. 6.0 — Children's Corner. 6.45 — Talk; News; Racing Results. 7.0 —Concert. 7.40 — News. 8.0 — Nicole Marina. 8.20 — Clarinet. 8.40 — Records of Roger Monteaux. 9.0 — Singing Competition for Amateurs, from Saint-Valéry-sur-Somme. 12.0 m.t. — Midnight Melodies. 12.30 a.m. (Sunday) — Light Music. 1.0-2.0 a.m. (Sunday) — Dance Music.

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW. 12.0 noon — Weather (Icelandic, English, German). 2.0 p.m.—Music and News. 5.0—Weather. 9.10 —Weather (Icelandic, German, English). 9.20—Radio Trio. 9.55—

Announcements. 10.0—Time; News. 10.30—Talk. 10.55—Choirs. 11.25 —Radio Orchestra. 12.0 m.t.—2.0 a.m. (Sunday)—Dance Music.

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Naples, etc. See Sunday. 7.45 a.m.—Gym. 8.0-8.20—News. 11.30—See Turin. 12.15 p.m.—Light Music. 12.30—Sports. 12.40-1.50—See Turin; at 1.0—News. 1.50—Announcements. 2.0 —News. 2.20-3.0—News; Choirs; Talk. 4.25—Talk: Sports and the Worker. 4.40—For Children. 5.0 —News; Lottery Notes. 5.15-5.50—See Turin. 6.10—Rural Programme. 6.50 —Dopolavoro Notes. 7.0 —Esperanto Talk; Music; Announcements. 7.53 —News in Foreign Languages. 8.10 —Time; News. 8.30—Talk. 9.0—"Il marito scapolo" (Storaci). 9.40—Orchestra, Conductor: Mancini. Kaiserwaller (Strauss). A Festival at Seville (Mathis). Two Variations on Well-known Songs (Mancini-Fusco). Tango (Castriuccio). Chitarra esotica (Marrutti). Liebeswaller (Moszkowski). Blue Skies (Rixner). Strauss Potpourri (Börschel). Carrumba (Holmy). Suite. Volti la lanterna (Carabella). Piccolo trombettiere (Carlini). Sivigliana (Manno). Talk in the interval. 10.45—Dance Music. 11.0—News. 11.15—News (English). 11.30 p.m.—12.30 a.m. (Sunday)—Dance Music.



Amfiteatrof, conductor of Part 2 of Turin's concert at 9 p.m.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.30 p.m.—News. 12.40-1.30—Records. 5.0-6.0—See Monte Ceneri. 6.0—Records: Songs for Children. 6.30 —Records: Light Music. 6.55 —Lausanne Cathedral Chimes. 7.0—Legal Hints. 7.10—Talk: The Montreux-Caux Races. 7.20 —Canton Vaud Review; Music. 7.45 —News. 8.0 —Cycle Tour of France. 8.5 10.15—Russian Programme. 8.5—Radio Suisse romande Orchestra, Conductor: Haug. Overture, "A Life for the Tsar" (Glinka). Ballet, Nutcracker Suite (Tchaikovsky). 8.35 —"The Proposal"—One-Act Play (Tchekov), by the Gay Companions. 8.55—Radio Suisse romande Orchestra. Conductor: Haug. Eight Russian Folk Melodies (Liadov). Scheherazade (Rimsky-Korsakov). 9.55—"The Bear"—One-Act Farce (Tchekov), by the Gay Companions. 10.15-11.0—Dance Records.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m. 12.25-12.50 p.m.—Massing Sextet. 3.0 — Folk Festival at Orebro. 3.15—Talk. 4.0 — See Munich. 5.10 — For Children. 5.45 — Records. 6.45 —Reading. 7.15—News. 7.30 — Cabaret. 8.15 — Talk. 8.45 — Old Dance Music. 9.30 — Sports. 9.45—News. 10.0-11.0 (from Göteborg)—Dance Music from Liseberg.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 4.0 p.m.—Concert from Angers. 4.50—Exchange. 5.0—For Young People. 5.30—Dance Records. 5.45 —Concert.

6.30 — Songs from Nice-Côte d'Azur. 7.0—News; Topical. 7.30—See Paris (Eiffel Tower). 7.45—See Paris (PTT). 8.0—News. 8.15—Sports. 8.30 —Alsatian Evening — Variety Concert. 10.30—News. 11.0—News (German). 11.5 p.m.—1.0 a.m. (Sunday)—Dance Music from Paris (Radio-Paris).

STUTT GART (Germany)

574 kc/s (522.6 m.); 100 kW. 5.0 a.m.—See Königsberg. 5.45—Hymn; Weather; Notes for Farmers; Gym. 6.15—News. 6.30-8.0—See Berlin. 8.0—Water Level; Weather; Markets; Gym. 8.30-9.30—Orchestra from Saarbrücken, Conductor: Kasper. March, General Suter (Beccce). Overture, "Irrfahrt ins Glück" (Suppe). Waltz, O du schönes Berchtesgadner Land (Wetzel). Caprice (Carreno). Potpourri, Draussen in Grinzing (Recktenwald). Liebesserenade (Wetzel). Spanish Waltz, Andalusia (Krüger-Hanschmann). Behüt dich Gott, es war so schön gewesen (Nessler). Two Miniatures (Rust). Romance and Czardas, Pusztanacht (Borchert). 11.30—Folk Music. 12.0 noon-2.0 p.m.—See Breslau; at 1.0—News. 2.0—See Deutschlandsender. 3.0—"A Sunday Excursion to German Beauty Spots"—Sequence. 4.0-10.0—See Munich; at 5.10-6.15 —Weekly Sound News Review. 10.0 —Time; News. 10.30—See Berlin. 12.0 m.t.—1.0 a.m. (Sunday)—See Frankfurt.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.30 a.m. 11.55 a.m.—Bal Champêtre Orchestra. 12.5 p.m.—Chansonnettes. 12.15—News. 12.45—Light Music. 1.10—"Baisers d'amour"—Fantasy. 1.25—Musical Comedy Music. 1.40—Film Songs. 1.55—News. 6.0—Dance Music. 6.15—Songs. 6.35 — Orchestra. 6.50 — News; Sports. 7.0—Film Songs. 7.15—News. 7.45—Orchestra. 8.15—Excerpts, "La Vie parisienne" (Offenbach). 8.30—Band. 8.45 —Light Music. 9.45—Orchestra. 9.50—Paris Programme. 10.20 —Argentine Orchestra. 10.35—Excerpts, "The Dubarry" (Müllöcker). 10.50—Orchestra. 11.0—Light Music. 11.15—Orchestra. 11.35—Light Music. 11.50—Announcements.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. 7.45 a.m.—Gym. 8.0-8.20—News. 11.30—Trio. 12.30 p.m.—Sports. 12.40-1.50—Light Orchestral Music, Conductor: Ferruzzi; at 1.0—News. 1.50—Announcements. 2.0-2.15—News. 4.25—See Rome. 4.40—For Children. 5.0—News. 5.15-5.50—Records: Light Music and Dance Music. 6.50—See Rome. 7.0—Light Music. 7.40—News in Foreign Languages. 8.10—Time; News. 8.30—Talk. 8.40—Light Music. 9.0—Respighi Programme. Part I. "The Sleeping Beauty". Conductor: La Rosa Parodi. Cast: Jolanda Cirillo, Ugo Cangelmo, Emilio Renzi, Lina Aimaro, Ebe Ticozzi, Carlo Togliano, Luisa Garrone and Liana Avogadro. Part II. "Primavera". Conductor: Amfiteatrof. Cast: Jolanda Cirillo, Emilio Renzi and Carlo Togliano. In the interval, Talk and News. 11.30 (approx.)-12.30 a.m. (Sunday)—Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. 6.45 a.m. — Chimes; Gym. 7.0 —Motto; News. 7.10—Records. 8.0—Dollfus Commemoration Programme from St. Stephen's Cathedral. Cathedral Choir and Orchestra, Conductor: Habel; Karl Walter (Organ) and Singers. Requiem (Mozart). Libera (Weirich). 9.30—News; Markets. 10.50 — Records of the Tyrolean Male Voice Quartet. Unser Heimatland (Fittig). Der Alpensohn (Fittig). Tirolers Wunsch (Waldmeister). Tirolers Heimkehr (Kratzer). Nur einmal in meinem Leben. Gruss an die Heimat. Ö Land Tirol (Racke-Goller). Andreas Hofers Abschied vom

SATURDAY (July 24)

Leben (von Lavogler). Andreas Hofers Tod (arr. Goller). 11.20 — Water Level; Weather. 11.30—For Women. 12.0 noon — Station Orchestra. Overture in G minor (Bruckner); Music from "Egmont" (Beethoven). Dream, Pantomime, "Hansel and Gretel" (Humperdinck). Entr'acte, "Das Hexlein" (Wachsmann). Nocturne (Borodin-Tcherepnin). Music from "Coriolanus" (Alexander Mackenzie). 1.0 p.m. — News. 1.10—Records: Symphony Music. Passacaglia (Bach) by the Philadelphia Symphony Orchestra, Conductor: Stokowski. Fifth Symphony (Beethoven) by the Vienna Philharmonic, Conductor: Schalk. 2.0 — Records of Lotte Lehmann (Soprano). Ave Maria (Schubert). Largo (Handel). Two Songs (Beethoven): (a) Die Trommel geführt, (b) Freudvoll und leidvoll. Der Tod, das ist die kühle Nacht (Brahms). Aria, "Lohengrin" (Wagner). Two Arias (Wagner): (a) Träume, (b) Schmerzen. 2.30 — Announcements. 3.0 — Time; Weather; Exchange. 3.15 — Pfte. Quartet in E flat (Beethoven). Georg Steiner (Violin); Christa Richter-Steiner (Viola); Beata Reichert (Cello) and Magda Rusy (Pfte.). 3.40 — English Talk by the Rev. C. H. D. Grimes: Place-Names in Austria and England. 4.10 — News; Exchange. 4.15 — Records. Leonora Overture No. 3 (Beethoven) by the Vienna Philharmonic, Conductor: Bruno Walter. Song Cycle, Die Winterreise (Schubert) by Hans Duhan. Overture, Coriolanus (Beethoven). Conductor: Klemperer. 5.15 —Friedrich Lorenz reads; Introduction by Heinrich Suss Waldeck. 5.40 — Talk: from the Schneeberg to Lake Constance, a Geological Journey. 6.0 — Station Orchestra, Conductor: Schönherr. Rosner (Violin). Overture, "The Force of Destiny" (Verdi). Violin and Orchestra: Suite, Mozartiana (Tchaikovsky). Pavane pour une Infante défunte (Ravel). The Walk to the Paradise Garden, "A Village Romeo and Juliet" (Deliuss). Schwannengesang (Walter Address). 7.0 — Time; News. 7.10 — Talk. 7.30 — Addresses. 8.0—Chimes from all the Vienna Churches. 8.30—Symphony Concert. Vienna Symphony Orchestra, Conductor: Anton Konrath. Tragic Overture (Brahms). "Eroica" (Beethoven). Siegfried's Death from "The Tasso of the Gods" (Wagner). Dusk (Liszt). 10.10—News. 10.40 — Second Symphony C minor (Mahler) by the Minneapolis Symphony Orchestra, Conductor: Eugen Ormandy. with Corinne Frank-Bowen (Soprano). Ann O'Malley Gallogly (Contralto) and the Twin City Symphony Chorus (Recorded). WARSAW (Poland) 224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. 6.15 a.m. — Hymn. 6.18 — Gym. 6.38 — Records. 7.0 — News. 7.10-8.0 — Records. 11.57 — Time; Fanfare. 12.3 p.m. — News. 12.15 — For Young People. 12.25-1.0 (from Wilno) — Szczepanski Orchestra. 3.45—Economics. 4.0—"The Prince and the Pauper" — Play for Children (Mark Twain). 4.30 — Polish Folk Ensemble. Conductor: Dzierzanowski. 5.30 —Topical. 5.50 — Talk. 6.0 — Programme Notes. 6.15—Operetta Records. 6.50—Topical Talk. 7.0 — Herman Orchestra. Sarabande (Bach). Minuet (Haydn). German Dance (Mozart). Waltz (Weber). Minuet (Kublaw). Polonaise (Oginski). Waltz, Dolores (Waldteufel). Bolero (Moszkowski). Mazurka (Rudnicki). Mazurka (Lewandowski). Dances (Lancker). Couiavienne (Lada). 7.40 — Topical Talk. 7.50 — Sports Notes. 8.0 — For Poles Abroad: " Polish-German Children on Holiday in Germany"; (a) Talk, (b) Programme from the Holiday Camp, (c) Songs (Recorded). 8.45 — News. 8.55 — Farmers' Press Review. 9.5 — Light Orchestral Music, with Anthei van Weck and A. Aston; at 9.45 — Press Review. 10.50—News; Press Review.



# STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

Corrected in accordance with the latest official information available at the time of going to press.

kc/s	m.	kW	Station	kc/s	m.	kW	Station	kc/s	m.	kW	Station
<b>Band No. 1. 150-300 kc/s.</b>											
152	1973.5	5	Ankara (Turkey)	731	410.4	0.1	Assiut (Egypt)	1122	267.4	6.25	Nyregyháza (Hungary)
153	1961	7	Kaunas (Lithuania)			3	Madrid (EAJ2) (Spain)	1131	265.3	10	Hörby (Sweden)
		150	Hilversum (No. 1) (Holland)			5.5	Seville (Spain)	1140	263.2	7	Turin (No. 1) (Italy)
160	1875		(Power 10 kW only until 8.40 p.m. B.S.T.)	740	405.4	20	Tallinn (Estonia)			10	Trieste (Italy)
		150	Radio-Romania (Romania)	749	400.5	100	Munich (Germany)	1149	261.1	20	LONDON NATIONAL
166	1807	150	Lahti (Finland)	758	395.8	100	Marseilles (PTT) (France)			20	NORTH NATIONAL
172	1744	500	Moscow (No. 1) (U.S.S.R.)	767	391.1	1	Pori (Finland)	1158	259.1	50	SCOTTISH NATIONAL
182	1648	80	Radio-Paris (France)			12	Katowice (Poland)	1167	257.1	10	Kosice (Czechoslovakia)
185	1622	5	Istanbul (Turkey)			60	BURGHEAD	1176	255.1	15	Monte Ceneri (Switzerland)
187.5	1600	20	Irkoutsk (U.S.S.R.)	776	386.6	70	SCOTTISH REGIONAL	1185	253.2	10	Copenhagen (Denmark)
191	1571	60	Deutschlandsender (Germany)			0.25	Sortavala (Finland)			60	Nice-Côte d'Azur (France)
200	1500	150	DROITWICH	785	382.2	10	Stalino (U.S.S.R.)			0.5	Cassel (Germany) (Suspended)
208	1442	35	Minsk (U.S.S.R.)	795	377.4	120	Toulouse (PTT) (France)	1195	251	2	Coblentz (Germany)
216	1389	16	Reykjavik (Iceland)			7.5	Barcelona (EAJ1) (Spain)			25	Frankfurt (Germany)
217.5	1379	150	Motula (Sweden)	804	373.1	50	Lwów (Poland)			5	Freiburg-im-Breisgau (Ger.)
217.5	1379	100	Novosibirsk (U.S.S.R.)			5	PENMON (Anglesey)	1204	249.2	2	Trier (Germany)
224	1339	120	Warsaw (No. 1) (Poland)	814	368.6	70	WELSH REGIONAL	1213	247.3	5	Prague (No. 2) (Czechoslovakia)
232	1293	150	Luxembourg	823	364.5	50	Milan (No. 1) (Italy)	1222	245.5	60	Lille (Radio PTT Nord) (France)
		100	Moscow (No. 2) (U.S.S.R.)			12	Bucharest (Romania)	1222	245.5	0.3	Narvik (Norway)
240	1250	60	Kalundborg (Denmark)	832	360.6	1.5	Agen (France)	1231	243.7	50	Radio-Mareoni (Bologna) (Italy)
		0.5	Vienna Experimental (Austria)			35	Kiev (No. 2) (U.S.S.R.)	1231	243.7	5	Gleiwitz (Germany)
248	1209.6	100	Kiev (No. 1) (U.S.S.R.)			0.4	Rueil - Malmaison (Beziers) (France)	1235	242.9	17	Cork (Irish Free State)
253	1186	10	Vigra (Aalesund) (Norway)	841	356.7	100	Berlin (Germany)	1249	240.2	1	Saarbrücken (Germany)
256.4	1170	25	Tashkent (U.S.S.R.)			1	Sofia (Bulgaria)	1258	238.5	15	Bilbao (EAJ8) (Spain)
260	1153.8	60	Oslo (Norway)	850	352.9	1	Bodø (Norway)	1267	236.8	1	Riga (Latvia)
271	1107	100	Leningrad (No. 1) (U.S.S.R.)			10	Porsgrund (Norway)	1276	235.1	1	Rome (No. 3) (Italy)
282	1065	10	Tromsø (Norway)			10	Stavanger (Norway)			2	Nürnberg (Germany)
283	1060	35	Tiflis (U.S.S.R.)			10	Valencia (Spain)	1276	235.1	27	Radio-Méditerranée (France)
<b>Band No. 2. 300-500 kc/s.</b>											
340	882.3	20	Saratov (U.S.S.R.)	859	349.2	3	Simferopol (U.S.S.R.)	1285	233.5	1	ABERDEEN
347	864	10	Finmark (Norway)			100	Strasbourg (France)			0.25	Dresden (Germany)
350	857.1	10	Archangel (U.S.S.R.)	868	345.6	16	Poznan (Poland)	1294	231.8	5	Klagenfurt (Austria)
355	845.1	20	Rostov-on-Don (U.S.S.R.)	877	342.1	70	LONDON REGIONAL			5	Vorarlberg (Austria)
359.5	834.5	18	Budapest (No. 2) (Hungary)	886	338.6	15	Graz (Austria)	1303	230.2	0.5	Danzig (Danzig Free City)
375	800	40	Sverdlovsk (U.S.S.R.)			15	Linz (Austria)			0.25	Karlstad (Sweden)
390	769	10	Voronezh (U.S.S.R.)	895	335.2	10	Helsinki (Finland)	1312	228.7	2.5	Malmö (Sweden)
		0.6	Boden (Sweden)	904	331.9	1.5	Limoges (PTT) (France)			0.25	Norrköping (Sweden)
392	765	30	Banská-Bystrica (Czecho.)			100	Hamburg (Germany)	1321	227.1	0.25	Trollhättan (Sweden)
		1.3	Geneva (Switzerland)	913	328.6	10	Dniepropetrovsk (U.S.S.R.)			1.25	Magyaróvár (Hungary)
401	748	100	Moscow (No. 3) (U.S.S.R.)			60	Toulouse (Radio - Toulouse) (France)	1330	225.6	2	Bremén, Hanover, Kiel, Stettin (Germany)
413.5	726	0.6	Ostersund (Sweden)	922	325.4	32	Brno (Czechoslovakia)			0.5	Magdeburg (Germany)
431	696	10	Oulu (Uleaborg) (Finland)	932	321.9	15	Brussels (No. 2) (Belgium)	1339	224	2	Lódz (Poland)
<b>Band No. 3. 500-1,500 kc/s.</b>											
511	587.1	0.5	Tartu (Estonia)	941	318.8	12	Algiers (North Africa)			1.5	Montpellier (PTT) (France)
519	578	0.7	Hamar (Norway)	950	315.8	10	Göteborg (Sweden)			0.5	Cairo (No. 2) (Egypt)
		1	Innsbruck (Austria)	959	312.8	100	Breslau (Germany)	1348	222.6	0.5	Dublin (Irish Free State)
527	569.3	6.3	Ljubljana (Yugoslavia)	968	309.9	30	Poste Parisien (France)			2	Königsberg (No. 2) (Germany)
		10	Viipuri (Finland)	977	307.1	10	Bordeaux-Sud-Ouest (France)			0.15	Rjukan (Norway)
536	559.7	10	Bolzano (Italy)			100	Odessa (U.S.S.R.)			2	Salzburg (Austria)
546	549.5	50	Wilno (Poland)	986	304.3	10	NORTHERN IRELAND REGIONAL	1357	221.1	0.7	Tampere (Finland)
556	539.6	120	Budapest (No. 1) (Hungary)	995	301.5	24	Genoa (Italy)			2	Bari (No. 2) (Italy)
		100	Beromünster (Switzerland)			60	Torun (Poland)			4	Milan (No. 2) (Italy)
565	531	100	Athlone (Irish Free State)	1004	298.8	13.5	Hilversum (No. 2) (Holland)	1366	219.6	0.3	Notodden (Norway)
		10	Klaipeda (Lithuania)			4	(Power 15 kW only until 8.40 p.m. B.S.T.)	1375	218.2	0.2	Turin (No. 2) (Italy)
574	522.6	3	Palermo (Italy)	1013	296.2	70	Bratislava (Czechoslovakia)	1375	218.2	0.5	L'Île de France (France)
583	514.6	20	Stuttgart (Germany)	1013	296.2	4	Chernigov (U.S.S.R.)	1384	216.8	0.5	Basle (Switzerland)
592	506.8	50	Alpes-Grenoble (PTT) (France)	1022	293.5	70	MIDLAND REGIONAL	1384	216.8	0.5	Berne (Switzerland)
601	499.2	100	Madona (Latvia)			3	Barcelona (EAJ15) (Spain)	1393	215.4	7	Warsaw (No. 2) (Poland)
610	491.8	25	Rabat (Morocco)	1022	293.5	2	Cracow (Poland)	1402	214	25	Radio-Lyons (France)
610	491.8	10	Sundsvall (Sweden)			0.7	Oviedo (Spain)	1420	211.3	2	Stara-Zagora (Bulgaria)
620	483.9	15	Florence (Italy)	1031	291	100	Königsberg (No. 1) (Heilsberg) (Germany)	1420	211.3	10	Vaasa-Vasa (Finland)
625	480	20	Brussels (No. 1) (Belgium)			5	Paredes (Portugal)			0.5	Alexandria (No. 2) (Egypt)
625	480	20	Cairo (No. 1) (Egypt)	1040	288.5	120	Leningrad (No. 2) (U.S.S.R.)	1429	209.9	2.5	Kaiserslautern (Germany)
		15	Samara (U.S.S.R.)	1050	285.7	20	Rennes-Bretagne (France)			0.5	Turku (Finland)
629	476.9	20	Christiansand (Norway)	1059	283.3	20	W. OF ENGLAND REG'L. (Bari (No. 1) (Italy))	1438	208.6	1.25	Miskolc (Hungary)
		15	Lisbon (Emissora Nacional) (Portugal)	1068	280.9	0.8	Radio-Cité (Paris) (France)	1456	206	7	Eiffel Tower (Paris) (France)
638	470.2	20	Trondelag (Norway)	1077	278.6	10	Tiraspol (U.S.S.R.)	1465	204.8	0.1	Antwerp (Belgium)
648	463	100	Prague (No. 1) (Czechoslovakia)	1086	276.2	35	Bordeaux-Lafayette (France)			0.1	Courtrai (Belgium)
658	455.9	10	Lyons (PTT) (France)			2	Falun (Sweden)			1.25	Pecs (Hungary)
		10	Petrozavodsk (U.S.S.R.)	1095	274	0.7	Zagreb (Yugoslavia)	1474	203.5	1	BOURNEMOUTH
668	449.1	20	Cologne (Germany)			5	Madrid (EAJ7) (Spain)	1487	201.7	0.3	PLYMOUTH
677	443.1	70	NORTH REGIONAL	1104	271.7	1.5	Naples (Italy)			0.1	Binche (Belgium)
686	437.3	100	Sottens (Switzerland)			11.2	Moravská-Ostrava (Czechoslovakia)	1492	201.1	0.2	Albacete (Spain)
695	431.7	2.5	Belgrade (Yugoslavia)	1113	269.5	15	Radio-Normandie (Fécamp) (France)			0.1	Chatelinau (Belgium)
704	426.1	120	Paris (PTT) (France)			0.5	Alexandria (No. 1) (Egypt)	1500	200	0.25	Liège Experimental, Radio-Cointe (Belgium)
713	420.8	55	Stockholm (Sweden)	1122	267.4	1	NEWCASTLE			0.25	Pietersaari (Jacobstadt) (Finland)
		50	Rome (No. 1) (Italy)			0.5	Alexandria (No. 1) (Egypt)	1530	196	0.2	Radio-Alcala (Spain)
722	415.4	1	Bergen (Norway)			1	NEWCASTLE	1734	173	0.1	Seraing, Verviers, Wallonia (Belgium)
		10	Kharkov (U.S.S.R.)			1	NEWCASTLE			0.2	Karlskrona (Sweden)
		1	Fredrikstad (Norway)			1	NEWCASTLE			0.1	Liepajá (Latvia)

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