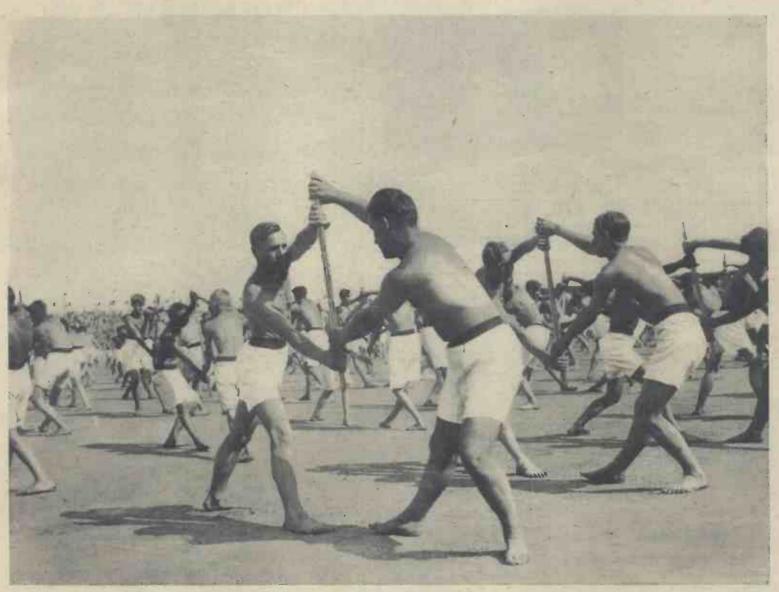
World-Radio

THE BBC FOREIGN PROGRAMME JOURNAL * EVERY FRIDAY

Programmes for June 19-25



A MANLY EXERCISE: members of a Czechoslovak Sokol Society—a remarkable national fitness movement—practising for the festival which will be held during July in the stadium at Prague. (See article on page 7.)

Marconi's Chief Assistant: George Stephen Kemp

Principles of Pentode Valves

All-World Short-Wave Review Pitcairn Island Station

TROPHY

SHORT-WAVE

SETS IN STOCK

-CALLERS Demonstrations daily. Make a point of calling also at Holborn branch, our great REBUILDING SALE offering bundreds of amazing bargains in everything radio. POST ORDERS

Frompt attention to all post orders. Cash. C.O.D. or Easy way. All orders sent carriage paid British lists.

B.T.S. TROPHY 3 RECEIVERS

Most efficient and low-priced self-contained short-wave sets ever offered. Ideal second set for the home and for experiencing real short-wave thrills. Covers Television sound, 6.2 metres to real short-wave thrills. Covers Television sound, 6.2 metres to 550 metres. Built-in speaker. 'Phone jack, Supplied with self-locating inductors for 12-52 metres. Fully guaranteed. If extra coils required for complete coverage 6-550 metres, add 17/- to cash price or 1/- to deposit and payments.

WAVE-RANGE 6.2 - 550 METRES

A.C. MODEL
200/250v. 40/100 cycles
£6:6:0
0r.7/6 deposit and

NEW TROPHY Junior COMMUNICATION Receiver

• CONTINUOUS WAVE-RANGE 10-550 METRES • BANDSPREAD TUNING.

A newa'l-British receiver (illustrated) incorporating special features and refinements nor-mally only associated with much higher-priced sets. Bandspread tuning is employed. Built-in speaker. 'Phone jack. On-off B.F.O. and A.V.C. switches. Recommended to every Short-Wave enthusiast.

Yours now for 10/9 **£9** down and 18 monthly payments of 10/9.

• ERECT AN EFFICIENT AERIAL
PETO-SCOTT ALL-WAVE AERIAL. Absolutely essential for presentday good listening. Wave-range 13-2000 metres. Complete outfil for instant erection with all aerial and lead-in wire, transformer, insulators, and instructions.

List value 37/6. Special price 17/6 cash or 2/6 down and 7 monthly payments of 2/6.

PETO-SCOTT CO. LTD.

77 (W.R. 12), City Road, London, E.C.1. Clissold 9875 62 (W.R.12), High Holborn, London. W.C.1.
Holborn 3248

Send NOW for complete Short-Wave Lists including details of the new Peth-Scott, 6-valve A.C. 4-band Dual-Purpose Com-munication Receiver at 11½ gns.

PRE-PAID CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS

PATES for Smalls-Advertisements in "World-Radio" are as follows:—2s. 6d. per line (average of 6 words) with a minimum of two lines. box number 6d. extra. Series discounts 5% on 13 insertions, 10% on 26 insertions, 20% on 52 insertions. All advertisements, which should be accompanied by a remittance and the full name and address of the advertiser, must reach The Advertisement Director, BBC Publications, 35, Marylebone High Street, W.1. not later than Friday of the week prior to publication.

In the case of box numbers, readers should reply to the box number mentioned in the advertisement, to Advertisement Department, "World-Radio," 35, Marylebone High Street, W.1.

REPAIRS (AMERICAN)

"SERVICE WITH A SMILE"

American valves, spares, linecords, rewinds, Repairers of all types of American and British receivers, HENRY FORD RADIO LTD., 22, Howland Street, W.1. Museum 5675.

MISCELLANEOUS

ENSURE hundreds of happy hours at home by installing a Jelks Billiard Table. Over 700 New and Reconditioned Billiard Tables in stock. Write for Free Lists and Terms. W. JELKS & SONS, LTD., 263/275, HOLLOWAY ROAD, N.7. NORth 2747.

TRANSFORMERS

MAINS Transformers rewound or built to specins; competitive prices and promptser-vice; Sturdy Elec. Co., Dipton, Newcastle/Tyne.

WHEN REPLYING TO **ADVERTISEMENTS** PLEASE MENTION WORLD-RADIO

BRC HANDROOK 1938

Contents include information on:-What is the BBC? How the BBC Obtains Its Income, Licences, Television. The European Wavelength Problem, How to Get Good Reception, The Time Signal, Weather Forecasts and Gale Warnings, SOS and Police Messages, When you write to the BBC, Auditions, Visits.

BBC HANDBOOK. 1938, is obtainable, price 1/6d., from any newsagent, bookstall or bookseller, from all BBC stations or direct (price by post 1/10d.,) from

BBC PUBLICATIONS (W85), 35 Marylebone High Street, London, W.1.

Your Visit Scotland

This broadcast talks series, full of up-to-date and valuable information for the intending visitor, is now appearing in "The Listener"

THIS WEEK (JUNE 16)

"Travel & Hospitality"

by MORAY McLAREN

NEXT WEEK (JUNE. 23)

"The People"

by EDWIN MUIR

Threepence every THURSDAY

From newsagents, bookstalls and booksellers.



MME. ADAMSKA, who will give a 'cello recital in the Warsaw studio at 7 p.m. on Saturday.

Light-Hearted Operas

AST week I made reference to the season's first broadcast from Scheveningen. This week I observe that the Italian stations announce the first of a series of open-air transmissions which have in past years invariably proved very enjoyable: those from the Basilica di Massenzio. Two of these concerts will be heard during next week, on Monday from the Rome group, when Gino Marinuzzi is to be the conductor; and on Friday from the Turin group, with Mario Rossi officiating. As in former years, these concerts begin at 9.30 p.m.

Next week's opera programme of the Italian stations is also in keeping with the season and on the lighter side. The Barber of Seville, for instance, will be broadcast twice: on Sunday from the Rome group, and on Tuesday from the Turin group; and Zandonai's comic opera La via della finestra will also be transmitted twice from Rome and Turin on Thursday and Saturday respectively. With the two operettas which will be heard during the week, the Italian programmes are assuredly good fare for summer evenings.

Reynaldo Hahn

THE composer of Ciboulette, the operetta which will be broadcast from the Paris (PTT) group and Sottens stations at 8.30 p.m. on Tuesday, though born in Venezuela, went to France as a small boy, and has made his home there since. Best known, both in his own country and abroad, as the composer of a number of really beautiful songs, Reynaldo Hahn has composed many operas, ballets, and choral and orchestral music. He is also a distinguished conductor, specialising in Mozart.

According to his own countrymen, "Hahn est tout charme," but his music is more than a mere catering for those who like their entertainment to be easily digestible: it is all masterly in its workmanship, and Ciboulette, popular as it has always been, is on a higher level than operetta usually reaches. Another operetta of his, Beau Brummell, will be broadcast on Thursday from the Eiffel Tower station.

THE PICK of the PROGRAMMES

A Belgian Music Festival

An interesting transmission is announced from Brussels No. 1 for 8 p.m. on Wednesday, when listeners will hear a programme of music by contemporary Liége composers. The National Orchestra will be conducted by Armand Marsick, who ranks foremost as a creative Liége musician, and one of the principal items in the programme will be an excerpt from his opera Lara, the libretto of which is based on Byron's poem. Other items in the programme are Six pièces brèves, by Marcel Orban, and a symphonic poem, Le Rêve plastique, by Maurice Droeghmans.

Music by Henrietta van den Boorn-Coclet, Emile Mawet, and Jean Rogister will complete a broadcast that will bring before listeners the work of an active and virile group of contemporary artists.

Midsummer Eve

MIDSUMMER EVE will be widely celebrated this week in many parts of Europe, and especially in the Scandinavian countries and Germany. The symphony concert which will be broadcast from Radio-Paris at 8.30 p.m. on Thursday, and which will be conducted by Inghelbrecht, includes Mussorgsky's St. John's Eve on the Mountain.



D. E. INGHELBRECHT, the Director of Music of French broadcasting, who will conduct Reynaldo Hahn's "Ciboulette" from Paris (PTT) at 8.30 p.m. on Tuesday, and the symphony concert from Radio-Paris at 8.30 p.m. on Thursday.

This tone poem depicts the traditional unearthly revels which the folk-lore of many lands associates with the Eve of St. John's Day. There is a regular Witches' Sabbath and a glorification of the Evil One with the rites of the Black Mass. But, in the midst of the unholy orgies, the tolling of the church bell is heard in the distance, and the spirits of darkness disappear with daybreak. The piece comes to an end with a sense of serene peace, which is in striking contrast to the ghostly revelry of the main part of it.

A Great German City

UNDER the heading "Augsburg: vom neuen Werden einer alten Stadt" Deutschlandsender will broadcast a programme, from 8.0 p.m. on Thursday, that will, I have no doubt, appeal to many listeners. The microphones and a staff of reporters have been occupied for days in the ancient City of Augsburg taking impressions of life in the city to-day and tracing back events in its illustrious history.

The names of Fugger and (to a lesser degree) of Welser, the mediæval merchant-princes, come at once to the mind, and among the scenes that may be re-enacted on Thursday there will probably be the famous interview between Herr Fugger, the head of that family, and Charles the Fifth, the Emperor who boasted that "in his empire the sun never set." The merchant prince resolutely refused to call on the Emperor, and insisted that the latter should call on him—which he did.

Swiss Folk Music

When Beromünster broadcasts a programme of Swiss folk music at 12.40 p.m. on Friday—a transmission which will be taken by the British Regional stations—listeners will hear songs and music that, but for the zeal and enthusiasm of a group of men in the latter half of the eighteenth and the early part of the nineteenth centuries, might never have been treasured as the valuable cultural possessions they have, in fact, become. The friends of folk music have continued their work throughout the decades and they have collected many thousands of songs and dances that have now been published in print.

The Beromünster station employs a staff of musicians who arrange periodical cycles of transmissions of folk music and dances. Their aim is, by means of broadcasting, to preserve Swiss national characteristics and traditions, side by side with broadening cosmopolitan outlook.

ALL-WAVE



TRESI RUDOLPH, who has recently become Germany's youngest Kammersängerin-a title granted by the State only to singers of the first rank. She is appearing in the Berlin programme at 8 p.m. on Sunday.

IRISH PRESIDENT'S PLAY

THE Twisting of the Rope, a one-act comedy by Professor Douglas Hyde, the distinguished Gaelic scholar who has become Ireland's first President, was recently presented as an exclusive feature by the National Broadcasting Company. The play, which was trans-



Notes on Interference Suppression.-No. 23

"HIGH, WIDE AND HANDSOME"

A luxury receiver will sound like a cheap set if at the other end of the wire there is installed an aerial unworthy of the job. In fact, a receiver is only as good as its aerial.

Be satisfied with nothing less than a truly efficient outside aerial, and, if you have the space, let the pole be a right good upstanding thing, as proud as a flag pole . . . a credit to your property.

Where a high garden-pole and long span are not practicable, the satisfactory alternative is the Belling-Lee *"Spike" Aerial secured to a chimney

In either event remember that the †"Eliminoise" is applicable to all types of aerial, and that it is well to have your aerial erected to Belling-Lee specification-the inside information on outside aerials.

* Snike aerial #3 3

† The "Eliminolse" (Regd. Trade Mark) anti-interference aerial. Complete kit with 60 ft. aerial and 50 ft. screened cable, 55/-.

Extra parts: Transformers only, 37/6. Receiver transformer, 17/6. "Eliminoise" screened cable, 1/- per yard.

BELLING & LEE LTD	Pleasesend, FREE, 8-pp. booklet (P261 H) "Wireless Without Crackling."
Name	
Address	
W.R. 17/6/38	

THE WORLD

French Plans for Royal Visit

the first Gaelic play to be acted in any

Dr. Hyde is a scholar of great eminence, and as a boy he became fascinated with the Irish spoken by the people living around his father's Roscommon rectory. Later, as a brilliant honours graduate of Trinity College, Dublin, he became an ardent collector of Irish folk lore. For a short time, Dr. Hyde was Professor of Modern Languages at the State University in New Brunswick.

THE ROYAL VISIT TO FRANCE

THE State and private stations of Paris will be put to a severe test during the visit of the King and Queen, when, it is anticipated, they will have to cope with outside commentaries for their own listeners, and also be at the service of broadcasters from Great Britain, writes our Paris Correspondent.

The State station programmes covering the period of the Royal visit from June 26 to July 2 will include a Franco-British concert from the Salle Gaveau, by the National Orchestra under Inghelbrecht, on Sunday, the 26th; a Shakespearean evening on the 28th, from the Comédie Française; a Soirée de Gala in honour of the British sovereigns, from the Opéra, on the 29th; and David Copperfield, from the Odéon, on the 30th. French versions are being given of both Shakespeare and Dickens.

Throughout the week there will be outside commentaries on the official visits and banquets and the visit of the Queen to the British Hospital at Neuilly; Anglo-French concerts; a special feature, La Naissance de l'Entente Cordiale; and talks on British literature and other appropriate subjects.

HIGH-BROW MOUNTAINEERS

"KENTUCKY and Arkansas mountaineers dislike hill-billy music; they prefer symphony orchestration and opera. They disclaim utterly the

lated into English by the late Lady Gregory, brand of savage discord which is described was produced in Dublin on October 21, 1901, as mountain music." So states Col. William Bovey, of McGill University, who represented the CBC at the recent round-table conference on radio held under the auspices of the National University Extension Association at Hot Springs, Arkansas.

WEDNESDAY'S FIGHT

The fight for the championship of the world between Joe Louis (the holder) and Max Schmeling in New York on Wednesday night will be relayed both in this country and Germany.

The ringside commentary by Bob Bowman will be radiated from the BBC Droitwich transmitter on Thursday at 2.45 a.m. B.S.T.; and a recording will subsequently be relayed in the Empire programmes.

It is probable that some of the American short-wave stations may also relay the fight.

EXAMS FOR DEALERS

In Switzerland, a wireless business cannot be exploited unless the owner or the chief assistant has passed an examination proving his technical knowledge in wireless questions. This examination is not easy. The candidate must undergo oral and written tests in electro-technique and measurement; in addition, he must speak for half an hour on his practical experiences, give in a written work on the same subject, and prove his ability by practical work lasting three hours. Each candidate must have completed a term of training and been employed for two consecutive years in the wireless business. The examiners are representatives of the P.T.T. Administration and of the Wireless Dealers' Association.

As a result of these strict measures, only persons who are really qualified can exercise the profession. Moreover, each candidate must have a fixed business address and pay a deposit of Fr. 1,000 as a guarantee of the quality of the technical work carried out.



YOUTH ON PARADE: a striking picture of Sokol—the Czechoslovakian gymnastic movement formations in the Stadium at Prague. (See article on page 7.)

OF RADIO

Excellent Fare from Denmark

DENMARK'S GALA WEEK

DURING recent months the Danish State Broadcasting Service has, through talks and radio plays, aroused keen public interest in the summer's great event—the Agricultural Exhibition which is being held at Bellahöj, Copenhagen, from June 17 to 26, to celebrate the 150th anniversary of the abolition of villeinage. One hundred and fifty years ago the last remains of serfdom in Denmark were abolished. A year or two earlier a commission had been appointed to introduce reforms in one part of Denmark, as a result of which 3,800 peasant families were given their freedom. As an experiment this was so successful that in effort to keep pace with progress." 1788 all forms of compulsion were removed, and the Danish peasant for the first time enjoyed his full personal freedom.

On Saturday, at 11.0-11.30 a.m., the opening of the Exhibition by H.M. King Christian will be relayed, and special broadcasts during the Exhibition will include, on Monday at 10.0 a.m., reception at the Copenhagen Town Hall, the people's procession to the Liberty Column, and the ceremony at the Column. The same afternoon a people's meeting will be relayed from the grounds of the Exhibition, with speeches by the Minister of Agriculture and other officials. Thursday's Midsummer Night's festival will include a torchlight procession, and a St. John's Fire speech by the Lord Mayor of Copenhagen. A choir of about 3,000 schoolchildren will sing national songs, accompanied by the orchestra of the Royal Life Guards.

FREE SETS IN AUSTRIA

THE State distribution of 100,000 free radio sets to selected persons of sound Nazi principles who are infirm or crippled, or still unemployed, is proceeding rapidly. Those chosen, if they are not blind or victims of brain injury, must be either incapable of working and earning, or recipients of the dole, or existing on an income (as widows or former dependants upon pensioners) which does not exceed the amount of dole.

Those who receive such free sets have to pay no dues or preliminary fees, and have in most cases either never had a radio set before, or have had to cease being subscribers long ago through impoverishment.

A TRIBUTE TO THE U.I.R.

An American publication, Education on the Air, which contains the proceedings of the Institute for Education by Radio during 1937, includes a stimulating paper by Major Gladstone Murray, General Manager of the Canadian Broadcasting Corporation, on "Radio's Responsibility for National Culture." In the course of this paper Major Murray writes: "It is perhaps not generally realised that, with the exception of the Postal Union, the International Union of Broadcasters is demonstrably the most consistently and cumulatively successful international experiment so far undertaken. It enjoys the wholehearted co-operation of the broadcasting

industry in the United States. Since it was formed in 1925, with headquarters at Geneva, the International Union of Broadcasters has established a working partnership among all the leading broadcasters of organised society.

"Adjustment of channels, exchange of ideas and programmes, co-operative experiments, the inception of a common pool of programme material—these and other tasks have been undertaken with a degree of success unusual in a generation which has witnessed the frustration of nearly every other attempt at international co-operation. It would seem that with radio, therefore, we are making a real

INTERNATIONAL CO-OPERATION

"THE possibilities of this international cooperation are hard to exaggerate," Major Murray continues. "Americans are already familiar with the voices and views of statesmen and thinkers in other countries, made available through the enterprise and efficiency of American broadcasters. Similarly, through radio, the authoritative voices of American leaders of thought have gained international audiences of startling dimensions. And we are only at the beginning. The broadcasting of the Coronation ceremonies was a perfect example of international co-operation: it was estimated that two hundred and fifty million people listened to it.

"I do not mention it as necessarily an example of cultural broadcasting, but I do quote it as an extraordinary and significant example of the efficiency of international cooperation in radio. It is proving beyond any question of dispute that the natural field of radio has become the whole world.'

IF YOU WANT TO MAKE RHYTHM...

AFTER reading a "price-list" of the instruments owned by NBC musicians, it seems to me no more than kind to warn any youthful listeners who may have become enamoured of orchestral playing as a potential career that they had better concentrate on the trumpet -unless they have capital behind them. A



GRACE MOORE, with André Kostelanetz, in whose programme she is now appearing (relayed from Wayne, Thursdays, 2 a.m. B.S.T.)

fine trumpet can be bought, I gather, for round about £30. When it comes to a violin, "the sky's the limit."

The fifty-odd musicians in the string section of the Symphony Orchestra represent more than £60,000 worth of instruments, with an aggregate age of something like 10,000 years.

POLICE CARS AS TELEPHONE **EXCHANGE**

POLICE radio cars were used as an emergency alternative for a disrupted telephone system for several hours recently in New York when a workman accidentally pierced four telephone cables with a compressed air drill, and put out of action five telephone exchanges in a busy district. Hospitals and thousands of other places, including police stations, were "cut

To alleviate the situation twenty police cars equipped with short-wave apparatus, controlled from four principal stations, were commissioned to relay subscribers' calls, and particularly messages intended for the St. Cecilia Maternity Hospital. Two other hospitals also depended, while repairs affecting sixty trunk lines were being made, upon the prompt services of the police radio cars.

ANSWERS? KNOW

The following questions are all based on subjects which should be familiar to readers of WORLD-RADIO. They are intended not only to be a test of observation, but to provide some diversion for the family circle. The answers will be found on page 9.

- (a) In which year did KDKA, Pittsburgh, 4. begin regular broadcasts? (b) What is the present height of KDKA's recently installed aerial mast? (c) Give the name of the most powerful American station, its call-sign, and wavelength.
- Which famous choir of to-day was conducted 6. by Johann Sebastian Bach for 27 years?
- Which American station has a woman 7. manager?
- Which was the first regular short-wave station and the first to relay a BBC programme to the Empire?
- Which American actor is noted for his radio productions of "stream-lined" plays of Shakespeare over the American stations?
- What length (app.) of wire would be required to make a half-wave aerial on 40 metres?
- Which American station broadcasts Christian Science programmes regularly?

Questions 1 and 2 submitted by J. Parkin, 18, Rowley Grove, Cottingham Road, Hull. Question 3 by J. F. N. Wedge, 6, Manor Court, Forest Hill, S.E.23. Questions 4 and 5 by M. W. Larner, 9D, Lyng Lane, West Bromwich, Staffordshire. Questions 6 and 7 by Peter C. Shenton. The Rectory, Graveley, Huntingdon.

PIONEERS OF BROADCASTING-12

George Stephen Kemp

No name is more deserving of inclusion in this series than that of George Stephen Kemp, who became Marconi's lieutenant and collaborator in all his early experiments.

THROUGHOUT the history of science experimental work with cables while serving there have been countless instances where the greatness of a master or the brilliance of his work has so overshadowed the efforts of his

subordinates that their contributions, no matter how substantial, have failed to become linked historically with their names and have, as a rule, been credited entirely as the work of the master. An instance of this may be found in the case of Stephen George Kemp, whose wide practical experi-ence was of such invaluable aid to Marconi in the



George Stephen Kemp

early years of the latter's work in England. Kemp was born in Kent in 1857 and spent most of his boyhood in Southampton. In 1874 he entered the Navy and, a few years later, took part in the famous bombardment of Alexandria in 1879, for a time working with Sub-Lieutenant (later Admiral) Jellicoe. his return home, he decided to specialise and so underwent courses at the Torpedo and Gunnery Schools. At the Gunnery School he was for a time in the same class with Prince George (later King George V), who was taking the course at the same time. the final passing-out examination from the Torpedo School, Kemp obtained 97 per cent, the highest aggregate of marks which had ever been obtained at that time, an indication of the remarkable ability which he was to show in later years.

In 1887 he was promoted Chief Torpedo Instructor, and took part with Lieutenant (later Admiral Sir) Henry Jackson in a great deal of experimental and development work on torpedo design. In the summer of 1891 a great naval exhibition was held in the grounds of Chelsea Hospital, and the greatest attraction of the exhibition was an immense lake which had been specially constructed and upon which model ships, steered and driven electrically from the shore, carried out the most complicated manœuvres. Not only could the ships be made to manœuvre in fleets, but they could fire miniature guns and carry out mine-laying attacks with miniature mines which exploded on contact with another ship. Kemp was responsible for the design and operation of this spectacular exhibit, which attracted vast crowds throughout the whole exhibition.

At about this period, electricity was beginning to be employed in naval vessels for lighting and other purposes, and Kemp took a leading part in the installation of the various electrical devices in a number of ships. During

with the Fleet on the West Indies Station in 1894, he invented a method of communicating over long distances by means of an ingenious adaptation of existing telegraph apparatus, and

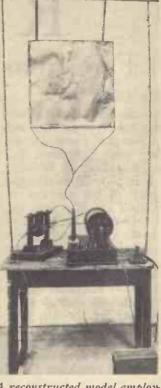
By G. R. M. GARRATT, M.A.

this work was acknowledged by the Admiralty as being of considerable value. During his years in the Navy, therefore, Kemp received an exceedingly wide experience in mechanical and electrical work of many different types, and, at the age of thirty-eight, when he retired from the sea, he was able to take up an appointment on the engineering staff of the Post Office.

He was straight away given charge of the laboratory of Sir William Preece, who was then the Engineer-in-Chief. His new post was one of considerable responsibility, as important developments were then taking place in the telephone and telegraph services. He had held this appointment for only a few months when one day, July 27, 1896, he was called by Sir William and introduced to a shy and somewhat reserved young man, Guglielmo Marconi, who, as Kemp recorded in his diary, had "a new instrument for communicating across space." Preece had been much impressed by what Marconi had told and shown him, and he realised that the Post Office, as the custodian of the communication services, would have to take a very close interest in Marconi's work. He therefore instructed Kemp to give Marconi all possible assistance and to co-operate with him as closely as possible.

Kemp's Diary

Marconi, then only a lad of twenty-two and a stranger to England, was only too glad of such assistance, and he realised how invaluable a man of Kemp's age and experience would be to him. Kemp was one of the most methodical of men, and from the age of twelve he had kept a remarkable diary in which he recorded many details of his day-to-day activities. This diary he continued to keep until the day of his death in 1933. In later years the documentary evidence which the diary provided proved of immense value to Marconi, and more than one important lawsuit was won on the evidence contained in those little volumes, one case in particular being that in which the famous "Four Sevens" patent (so called because its number was 7777) was disputed. Extending as it does over a period of more than sixty years, the diary is one of exceptional interest, and as an historic record of the early development of wireless telegraphy it is almost priceless. Except in the earlier volumes there are exceedingly few personal references, and outstanding events in the life of the man himself—for example, the birth of his eldest son—are passed over with-



A reconstructed model employing the original apparatus to become which formed the transmitter used by Marconi and Kemp during their experiments in 1896

Marconi's personal assistant. For a man

out mention. Technical details of experiments and equipment, however, are recorded with care, and it thus forms a perfect record of the progress and achievements in those early years.

After a little more than a year's association with Marconi the representative of the Post Office. Kemp had become so enthusiastic about the future of wireless telegraphy that he resigned from the Post Office with

responsibilities—he had three young children at the time-to resign a safe and permanent appointment in favour of a new and undeveloped science speaks highly, not only of his courage, but also of his judgment and conviction as to its future. During the ensuing years, Kemp and Marconi were to each other almost as father and son-the one an experienced engineer, the other a young man of remarkable ability-and the two formed excellent companions in all their work.

Within two months of his first meeting with Marconi, they were signalling over a distance of one and a half miles on Salisbury Plain, and by March of 1897 this distance had been increased to five miles by using kites and balloons to support the aerials. In May, 1897, they established communication across the Bristol Channel from Lavernock to Bream Down, and in December of the same year they were experimenting with small steamers in Bournemouth Bay. The results showed that they could maintain communication night and day between Bournemouth and Swanage. In January, 1898, they linked the Isle of Wight with the mainland by means of stations at the Needles and at Bournemouth; and in March, 1899, they established communication across the English Channel with two stations at South Foreland and Wimereux.

Step by step, the distances were increased until, in July, 1901, a service was established between the Lizard and Crookhaven in Ireland, a distance of two hundred and twenty-five miles, but this feat, however remarkable, paled into insignificance in face of their achievement in December of 1901 in transmitting the first wireless signals across the Atlantic.

Impossible as it is to apportion the credit between them, it is certain that Kemp's share (Continued in column 3, page 9)

Czech Fitness Movement



A graceful exercise by Czechoslovak girls.

DESPITE alarums and excursions in the political world, throughout Czechoslovakia the Sokol Societies-one of the most remarkable movements of modern times—are enthusiastically preparing for the Great Festival which takes place in Prague during July. From the Prague station, on one or two nights each week (as listeners may have heard), "Sokol exercises" are broadcast, enabling the societies in every part of the country to rehearse simultaneously. "Sokol" is the Czech word for Falcon, and it

may briefly be described as a "national fitness movement." It started in 1860, at a time when a national consciousness among the Slavonic races then incorporated in the Austrian Empire was awaking. The Czech nationalist group, led by a young Prague philosopher, Dr. Miroslav Tyrš, held the belief that to produce a free and virile people it was necessary to educate it physically, intellectually, and morally. They started with a physical culture association in 1861, and Dr. Tyrš gathered round him a band of able helpers, the most outstanding being Jindřich Fügner. In February, 1862, the latter became President of the Prague Physical Culture Unions, which afterwards became known as the Sokol Union. The growth of the movement was astohishing. Most towns in the Czechspeaking part of Bohemia had branches within a short time, and similar unions were formed among the Croats, Slovenes, and Poles living in the Austrian Empire.

For twenty years the Sokols grew steadily, and when in 1881 the organisation celebrated its twentieth anniversary, it was made the occasion of the first Sokol Festival. These festivals have been repeated every five or six years, and it is the tenth which is about to begin. In 1889 the name of the union was changed to the Czech Sokol Community, and in 1895 it was decided to admit women. The growth in the post-War years has been astonishing. 1913 the number of branches had risen to 1,080, with a membership of 128,000; the membership

to-day is 800,000.

The fundamental principle on which the Sokols are built may be briefly expressed as "equality of all among all," not merely in the matter of

physical drill, but in social life generally. addressing one another members use the second person singular, "thou," and the words "brother" in the case of men and "sister" in the case of women. This form of address is not a mere outward token of equality; it is also the expression of a much more profound sentimentbrotherhood. Sokol brotherhood implies the conscious abandonment by its members of privileges arising from birth, property, and education.

The Sokol Idea

The organisation on its administrative side is a most efficient one, and here is the most impressive fact of all. Members pay no sub-The only payments made are (1) a scription. fee paid to head office by each local branch for every one of its members, and (2) a fee of 8d. paid for every new member who joins that branch. The subscriptions include an insurance against accidents received during drill by individual members. For the rest, all work done by officials and instructors and in the Central Committee is entirely honorary. There are Sokol Houses in all the larger centres, and they are equipped with lecture and concert rooms and libraries. The Society's headquarters in Prague, the Tyrš house, is an old palace which was adapted to its present purpose at a cost of 25,000,000kc., the money being supplied entirely by the voluntary contributions of Sokol members.

The Sokol organisation, with its watchwords equality, liberty, and brotherhood, discipline and morality," while striving to improve and uplift the national character, endeavours to engender international peace and good will.

(See pictures on cover and page 4)

CALLING! PITCAIRN ISLAND

(From our New York Correspondent)

S already reported in WORLD-RADIO, the As already reported in the Ainhabitants of Pitcairn Island, in the Southern Pacific, were brought into touch with the outside world—after nearly a century-and-ahalf of almost complete isolation—on the evening of April 6, when short-wave messages from the island's new station, VR6AY, were relayed by the national network of the NBC and could be heard by a still wider group of listeners through the rebroadcast on the European beam of W3XAL, Bound Brook, the following morning.

Thus opened a new chapter in the strange sequence of events which began with the mutiny on H.M.S. Bounty. During the visit to the island of the American engineers who brought the necessary new equipment for an efficient station, additional network broadcasts were arranged; they were to occur at intervals of a few weeks, including one on April 29, when Tahitian and English traditional melodies were to be sung and played by the islanders on instruments of their own construction, and an attempt made to connect Pitcairn with members of the McGregor Arctic Expedition aboard the schooner General A. W. Greely, at Reindeer Point, near Etah, in Greenland-some 600 miles from the North Pole. On April 26, 10 p.m. to 10.30 p.m. E.D.S.T., NBC arranged to present two dramatised episodes from the story of Captain Bligh and the Bounty, and to make contact with the island, so that Robert L. (" Believe-It-Or-Not") Ripley might interview descendants of the principal historic figures concerned.

Thousands of listeners heard the initial broadcast, which was evidently a thrilling occasion for the two hundred human beings who have survived on the island. Richard Edgar Christian,

introduced as "Chief Magistrate of Pitcairn, representative here of his Majesty King George VI," and the great-grandson of Fletcher Christian, of the Bounty, said in fervent tones: "We appreciate more than words can express what this occasion means to Pitcairn Island. You cannot easily imagine what it means to be able to talk to the outside world."

Also heard was Andrew Young, direct descendant of Midshipman Edward Young, of the Bounty, who has served as radio operator on the island for several years, but who depended on an ancient Marconi spark transmitter which was strong enough only to reach ships which passed very close to Pitcairn. He, too, expressed the thankfulness of the islanders for the new order of things which has arrived in the shape of a wind-charged, up-to-date transmitter, of 75 watts power, by means of which a signal can be sent over many thousands of miles.

Group Listening

In the inaugural broadcast, working in the 15 m. band, contact was made with the RCA station at Point Reyes, on the Californian coast, which relayed the programme to NBC's San Francisco station, after a first attempt earlier in the evening had been washed out by static.

The transmitter equipment is housed in a wooden shack, 10 ft. x 12 ft. in size, in the midst of one of the groves of cocoa-nut palms which break the rugged contours of the twomile-long island, while a hundred feet away the wind-driven generator for the station has been put up. Near by are several of the island houses. A loudspeaker makes group listening possible over a considerable space, and there were rarely fewer than thirty inhabitants standing by while the station was in contact with the United



A section of the transmitting apparatus.

States, Australia, or Hawaii. Half a mile away is the base of a cliff rising eleven hundred feet, which, seen bathed in the evening light, led Mr. Lindley to remark in beginning the network broadcast: "We find it beautiful here. Pitcairn truly can be called a gem, set in the immensity of the Pacific."

The designation of the unique station interesting. The first three symbols of VR6AY represent the radio belt in the Pacific in which Pitcairn is situated: "A" represents the first and only licence of the kind to be issued, and as it also happened to be the first of Andrew Young's initials, the "Y" was added as a distinguishing symbol for Radio Pitcairn's lone operator.

The station has been logged at a signal strength of R9 by many American and British amateurs; it operates on a frequency of 14.346 kc/s.

READERS' FORUM

Listening in the Car

SIR,—Seeing the considerable number of motor-cars nowadays which are fitted with wireless receiving sets, I feel rather behind the times in not possessing so apparently desirable an adjunct to my car. Before, however, giving serious consideration to the question of equipping myself with a car receiver I am anxious to know—since my interest in listening largely concerns certain foreign stations—whether:

(a) distant long and medium wave stations can be received with satisfactory strength and

clarity, and

(b) whether short-wave listening is available if desired, and, if so, the nature of such reception.

I am assuming, of course, that I should be using the set in reasonably quiet conditions and not in crowded streets.

London, W.1, June 13. CAR OWNER.

STATIONS' DECLINE IN POWER

Motala certainly used to be a very strong signal indeed, and it could be heard quite well on a crystal set when Daventry 5XX was not transmitting. I think this is the most outstanding example of decline in volume from any single station. Hilversum 1 and Kalundborg have been much the same over a number of years, and their power increases have not resulted in any noticeable increase in volume. Luxembourg seems to be much the same as when it first started transmissions. On the medium waves the most outstanding are Budapest, Rome, and Nürnberg; when the first two stations began operations with high power it was possible to

listen to them with a crystal set quite comfortably, but it is not the case now. In fact, when I compare their volume with some small stations, it seems doubtful whether they are using their full-rated power.

Taking the medium wave-band as a whole, my observations over the last ten years show that all the distant transmissions, with few exceptions, have tended to decrease in volume after

their newness has worn off.

FRANCIS R. TIPLER.

Kidderminster, June 10.

TIME-LAG

The problem raised in Mr. Edgar Jackson's letter is, I believe, answered fairly simply. He noticed that a programme which originated from WABC, New York, seemed to be heard a fraction of a second later from W3XAU, Philadelphia, than from W2XE, New York.

Any time-lag due to a difference in the paths

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.

of the waves from the two short-wave stations would probably be so small as to be almost unnoticeable to the human ear. The reason for this phenomenon surely was that whereas the programme had possibly to travel only a few miles from the studios to the W2XE transmitter, it had to travel several hundred miles along telephone cable between New York and Philadelphia before it reached W3XAU. It was this, I think, which caused the time-lag heard by Mr. Jackson.

Acton, London, W.3 STANLEY C. ISAACS.

HARMONICS

While "knob-twiddling" on the short waves one night recently I heard the news being broadcast from Radio Eireann on approximately 88.5 m. I confirmed this by switching on to the latter station direct. I understand little about the subject of harmonics but, presumably, this is the 6th harmonic of Radio Eireann.

Cork. HENRY SHANAHAN.

Having recently acquired an all-waver, I find that I receive the stations W2XE, working on 19.65 metres on approximately 20.95 metres, and W2XAD, working on 19.57 metres, on approximately 20.9 metres. I have easily identified their call signs, as these stations are received at greater strength on these harmonics (if such they are) than on their fundamentals. Have any of your readers experienced this? I may say that none of my short-wave friends in this district have.

Regarding Mr. Jackson's query in to-day's WORLD-RADIO re time-lag between W2XE and W3XAU, both relaying WABC, would not the introduction of the land line between New York and Philadelphia account for the fraction of a second lag between the transmissions?

WINSTON JOHN CHRISTIE.

Dundee, June 10.

LEAVES FROM MY LOG

By "Log-Roller"

SUNSPOTS AND WIRELESS OUVE no doubt seen that in future the Y OU VE no doubt seen that in record of any the General Post Office of the appearance of any sunspots or groups that are above a certain size. This co-operation should lead to the collection of some most useful data concerning the connexion of sunspots with magnetic disturbances on the Earth and the Effects produced upon long-distance wireless communications. In his report for the past year, the Astronomer-Royal stated that sunspots had been more numerous and more prevalent than at any time during the last 68 years. That takes us back to the maximum of 1870, since when there have been five maxima, the last occurring in 1927. It is difficult to realise that there hasn't yet been a single complete sunspot cycle from maximum to maximum in the whole history of short-wave wireless. The Astronomer-Royal seems to think that we are now very close to a maximum, if, indeed, it has not actually arrived. The next few months should be full of interest on the short waves and the ultra-shorts, for freaks and oddities of reception are bound to occur.

WHAT IS THE CONNEXION?
There is no doubt that many wireless enthusiasts

perhaps most of them—have the idea that the

—perhaps, most of them—have the idea that the presence on the Sun's disc of very big spots must inevitably lead to magnetic disturbances, accompanied, according to their severity, by poor reception on the short waves, by occasional interruptions, or by complete black-outs. In point of fact, it doesn't seem to work out exactly in this way. In the past twelve months fourteen

sunspot groups have been observed with total areas of 1,000-millionths or more of the Sun's visible surface. And, believe me, anything of these dimensions is a whopper amongst sunspots! Yet of the fourteen, only seven appear to have been directly associated with recorded magnetic disturbances of any importance. When the terrific magnetic storm of April 16 occurred there was a very large sunspot group right in the middle of the Sun; but when a group double the size crossed the central meridian on January 18 no particular disturbance was recorded. Nothing, in fact, happened until January 25, when this gigantic group had almost entirely disappeared from view. A queer business!

DO SUB-HARMONICS EXIST? A fortnight ago I mentioned that there seemed to be no definite evidence that there were such things as radio sub-harmonics We all know that it is quite common to receive stations, by means of harmonics of one-half, one-third, and so on of their wavelength or at twice, thrice, and so on their fundamental frequency. Sub-harmonics, if there really are such things, would lead to just the opposite state of affairs—that is, stations might be heard on some multiple of their wavelength or some fraction of their frequency. Turning over an old diary the other day, I came across an entry in the memoranda pages at the end: "Twice during the year received short-wave Schenectady on double its wavelength." don't seem to have attached any importance to this reception at the time, for there are no dates and no details. But that entry set me thinking,

and by a strange coincidence I had the next day a letter from a Rugby reader, who told me that a couple of years ago he had received an amateur station working in the neighbourhood of 60 metres on exactly four times and exactly eight times its real wavelength. He reminded me of the report published by Mr. Pedersen, of Copenhagen, three years ago of investigations which showed that sub-harmonics of sound waves could be produced. And if sound waves can do these things, why not wireless waves as well? I've said before that if you want to collect data on any queer happening in wireless, readers of WORLD-RADIO are the surest source. This subject of sub-harmonics is one of enormous interest, and I shall be glad to have reports of reception of stations on wavelengths longer than their own and particularly of those which are exact multiples of the fundamental. If you send them in, please say whether the set used was a "straight' or a superhet, so that we can see whether or not superhet beats could have been responsible.

MORE INDIAN STATIONS

Last week I mentioned the coming of the new short-wave stations VUD3, of Delhi, and VUC2, of Calcutta. There are several other Indian stations whose construction is now advanced. The opening of the Madras 0.25 kW medium-wave station is expected to take place this month, and either at the same time or very shortly afterwards the 10-kW short-wave transmitter at Madras will make its bow. The broadcasting system of All India Radio is now rapidly nearing completion. Between December last and the end of next month seven stations will have been brought into operation, and the only three outstanding will be finished before the end of 1938. AIR's rapid development of a system to cover the whole Indian sub-continent must be something of a record in broadcasting.

TELEVISION NOTES AND PROGRAMMES

Wimbledon Again

By "THE SEER"

WITH few exceptions, serials have not been planter, soldier, playwright, and again a soldier. The trouble seems to be that, no matter how intriguing each instalment may be, and how skilfully the author leaves his audience "in the air," listeners either forget to tune in the following week or are prevented from so doing by some other engagement. And, having missed one instalment, they lose interest.

The staff at Alexandra Palace would like to think that television serials would be so compelling, so dazzlingly effective, that viewers would forget all else, watching the calendar and clock from one week to the next, and trampling on all engagements that threatened to interfere with their supreme pleasure. Alexandra Palace would like to think this, but the stake is too dangerous, and the first adventure on serial lines will be a compromise. Beginning on July 12, the first of six episodes in the lives of Ann and Harold will be presented. The series, based on a play by Louis Goodrich, has a thread of continuity which sustains the story throughout, but each episode is self-contained, and no viewer need fret if he misses one. These glimpses into the lives of a young London couple begin with their chance meeting in Hyde Park through the important agency of a Sealyham terrier (Lanham Titchener, the producer, is now looking for an appropriate dog actor), their engagement, marriage, life in Bayswater, and their only quarrel. Louis Goodrich, the author, is already familiar with the television medium as an actor. During a varied life he has been successively a hog-raiser, farm hand, hop-grower, tea-

The Wimbledon tennis pictures last year were startlingly good, especially as this was the first distant outside broadcast of a sporting event by television, but this year they should be even better, as Super-Emitron cameras will be in use. On June 30, after an interval for the Second Test Match at Lord's, the cameras will show the Finals on the Centre Court from 2.30 to 3.40 and again from 4.0 to 5.0 p.m. On the concluding days, July 1 and 2, the television unit will be working continuously from 2.30 to 5 p.m.

Alfred Reynolds, who composed the music for A. P. Herbert's Derby Day, has produced a comic opera for television, the libretto being provided by A. J. Talbot's amusing little play The Old Firm's Awakening, and the opera will be presented by Stephen Thomas on June 24. The story revolves around three characters: a bookmaker and his clerk, and Little Nell, who on the eve of a race wishes to place her savings and those of her poor little sick brother on Angel Face, an outsider. Even the hardened "bookies' demur at robbing the child, but she insists, whereupon the two men resolve to reform and ouit this manner of living. Their good resolutions are short-lived, however, for Angel Face comes in first; Little Nell takes her winnings and the "bookies" only succeed in defrauding her of the stake money.

George Baker and James Topping will be seen as the bookmaker and his clerk, and Olive Dyer as Little Nell.

PROGRAMMES

Vision: 45 Mc/s (6.67 m.); Sound: 41.5 Mc/s (7.23 m.). All programme times shown below are approximate. From 11.0 a.m. to 12.0 noon each weekday, except Friday and Saturday, films intended for demonstration purposes will

SUNDAY, June 19

8.50 p.m.—News Bulletin.
9.5—Irene Prador.
9.10—Cartoon Film: "Mickey Steps Out."
9.20-10.30—"A Hundred Years Old," comedy by Serafin and Joaquin Alvarez Quintero.

MONDAY, June 20
2.30-4.30 p.m.—Tennis from Wimbledon,
9.0—Cabaret, 9.35—Cartoon Film: "China Plate."
9.45—"The Old and the Young," comedy by Louis
Goodrich.
10.0—British Movietonews. 10.10—Agnes de Mille.
10.20-10.40—News Bulletin.

TUESDAY, June 21 2.30-4.30 p.m.—Tennis from Wimbledon. 9.0—Starlight: Hildegarde. 9.10—Gaumont-British News. 9.20—'Le Médecin malgré lui''' (Molière). 10.0-10.20—News Bulletin.

WEDNESDAY, June 22 3.0-4.15 p.m.—" Badger's Green," comedy by R. Sherriff. 9.0—Yours Faithfully: Marcella Salzer. 9.10—British Movietonews. 9.20—See Sunday 9.20 p.m. 10.30-10.50—News Bulletin.

THURSDAY, June 23
3.0 p.m.—Cabaret. 3.25—British Movietonews.
3.35-4.0—" Picture Page."
9.0—Swing Music. 9.20—Gaumont-British News.
9.30—" Picture Page." 10.0-10.20—News Bulletin.

FRIDAY, June 24

11.30 a.m.-12.30 p.m.—Lord's: Test Cricket.
2.30—See 11.30 a.m. 3.30—See Wednesday, 9.0 p.m.
3.40—Gaumont-British News. 3.50-5.0—See 11.30 a.m.
9.0—Hans Andersen Stories. 9.5—British Movietonews,
9.15—A.R.P.: demonstration of gas-proofing a room.
9.30—Film: "Stairway to Heaven."
9.45—"The Old Firm's Awakening:" comic opera in one act. 10.5-10.25—News Bulletin.

SATURDAY, June 25

11.30 a.m.-12.30 p.m.—Lord's: Test Cricket.
2.30—See 11.30 a.m.
3.30—In Our Garden: C. H. Middleton.
3.40—British Movietonews. 3.50-5.0—See 11.30 a.m.
9.0—Cabaret. 9.25—Gaumont-British News.
9.35—"Thread o' Scarlet:" a play by J. J. Bell.
10.0-10.20—News Bulletin.

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."

top corner "Postal Query Service"), and coupon as per conditions for "Free Queries."

SHORT WAYER (Eastbourne): Not a direct broadcast, but if w/l is approximately correct probably relay of New York programme vid WLK, Lawrenceville (N.J.) on 18.44 m. AUDREY (Taunton): VLR, Lyndhurst (Victoria), on 31.32 m. BALMAIN (Poplar): Please number your queries to facilitate replies, (1) possibly test by VUD2, Delhi, on 31.28 m.; (2) regret, cannot trace. MEXICANA (Tadworth): (21) we cannot trace any broadcasting station in that section of the waveband; possibly a relay by PSK, Marapicú (Brazil), on 36.65 m.; (22) Estaçion TG2, Dir. Grl de Comunicaçiones Electricas, Guatemala City, Republic of Guatemala; Estaçion XEXA, Bucareli, 12, Despacho 103, Mexico City, Republic of Mexico; COBC, Apartado Postal, 139, Havana, Cuba; HJAABE La Voz de Antioquia, Hotel Europa, Medellin, Colombia; (23) HJIABB, Barranquilla, 62.75 m.; HJ3ABO, Bogotá, 61.9 m.; HJ3ABH, Bogotá, 61.22 m.; HJ3ABO, Bogotá, 61.9 m. HJ3ABH, Bogotá, 61.22 m.; HJ3ABO, Bogotá, 61.9 m. and HJ7ABD, Bucaramanga, 62.24 m., according to the latest official list. (24) there is no Nicaraguan broadcasting station advertised to work on that wavelength; possibly news bulletin from TIEP, San José (Costa Rica) on 44.71 m. D-EXER (E.4): (1) ZMA is a coastal telegraphy station at Apia (Samoa) working on 800 m.; (2) HB9D, Zürich, 31.46 m.; (3) HH2S, Port-au-Prince (Haiti) on 50.85 m.; (b) do not understand your query; the International amateur prefix for Jamaica is VPS. SIX PIPS: (2) if Venezuela, either YVIRM, Maracaibo on 46.15 m. or YVIRI, Coro on 48.31 m.; the details you give do not permit identification; (3) vague; possibly Radio Quito (HCJB); (4) 12RO3, Rome on 31.13 m. and IRF, Rome-Torrenova on 30.52 m.; YV5RQ, Caracas, La Voz de la Philco, Venezuela, on 47.85 m.; GYZ3, Rinella (Malta) on 38 m. is a wireless telegraphy station. S.N. (Irthlingborough): Regret cannot trace such a transmitter in Paraguay of which the International prefix would be ZB; if CPP was heard it would

Nacional, Guatemala City. HIGH FREQUENCY (Wareham): COBC, Apartado Postal 139, Hayana, Cuba, on 31.97 m. ONDA CORTA JAIME (S.W.11): HCETC, Teatro Bolivar, Quito, Ecuador, on 43 m.; HC2RL. Apartado Postal 759, Guayaquil, Ecuador, on 45.13 m.; H17P, Calle José Reyes 35, Ciudad Trujillo, Dominican Republic, on 44.12 m.; HIH, San Pedro de Macoris, Dominican Republic, on 44.25 m.; HI3C, La Voz de la Feria, La Romana, Dominican Republic, on 44.61 m.; HIT, Apartado Postal 1105, Ciudad Trujillo, on 45.25 m.; PMH; Posts and Telegraphs Department, Bandoeng, Java, on 44.62 m.; YVQ, Servicio Radio Telegrafico, Maracay (Venezuela), on 46.55 m.

AMATEUR TRANSMITTERS

The identity of amateur transmitters may be found in the "Radio Amateur Call Book." The Spring Edition (price 6s. post free) is obtainable from the BBC Publications Management Offices, 35, Marylebone High Street, London, W.1. The 1938 Edition of the "Radio Amateur Handbook," price 6d. post free, is now available from the above address

WAVELENGTH DEVIATIONS

The following list shows the deviations of stations, as measured at the Tatsfield Checking Station, during the past week:

Cork (Eire) ... 1238.4 242.2

IDENTIFICATION COUPON (No. 488) This coupon is valid for ONE QUESTION only and should be cut out and attached to a separate sheet, upon which the following questions should be answered in the order shown. No coupon more than one month old is valid. A coupon is not required from readers living in countries outside Europe who desire identification of transmissions.

Time and date of reception.

Approximate frequency in kilocycles (or, for short waves, in megacycles) per sec. (or wavelength in metres).

Nearest known stations, above and below. Call or interval signal, if heard.

Language.

Type of receiver in use and strength of signals. Details of programme or signal received.

Name and address.

Nom de plume. (Proprietary names must not

be used.)

Esperanto Transmissions

Sunday: Barcelona, 377 m. and 42 m. 00,30 a.m. Parolado. Hilversum (1) 11.40 p.m. Romkatolika Prelego. Monday: Sottens, 6.20 p.m. Leciono de S-ro Bouvier. Rome (2) and 2RO, about 10 p.m. Informoj. Paris (PTT), 10.45 p.m. Unuakta Komedio—"Rozalio." Tuesday: Kaunas, 9.20 p.m. Nia Anguleto. Estonian stations, 10 p.m. Facetoj de Estona Kulturo. Wednesday: Mexico (50.17 m.) 2.45 a.m. Parolado kaj Informoj. Paris (PTT) and relays, 2 p.m. Elementa Kurso. Saturday: Lille, 1.45 p.m. Leciono kaj Informoj. Hilversum (2) 4.10 p.m. Esperantaj Kantoj. Hilversum (1) 5.10 p.m. Informoj por Romkatolikoj kaj aliaj. Rome (1) and 2RO, 7 p.m. Turismaj Notindajoj.

"DO YOU KNOW ... ?"-13

Answers to Questions on page 5

(a) in 1920. (b) 718 ft. high. (c) Cincinnati WLW; 428.6 metres, 500 kW.

Johann Sebastian Bach conducted the famous "Thomanerchor," or St. Thomas's Church Choir, of Leipzig. It was founded by monks in 1212.

W2XE.

PCJ, Huizen.

John Barrymore.

66 ft.

Boston, W1XAL.

GEORGE STEPHEN KEMP

(Continued from page 6)

in all this work was a large one, but such was his attachment to Marconi, apart from the commercial necessity of adding renown to the name of Marconi himself, that Kemp, like many of Marconi's later assistants, willingly gave up his personal claims in the work. Without such men as Kemp, however, men who are willing to sink their personal claims and interests for the sake of the common good, the world would indeed be a poorer place,

All-World Short-Wave Review

A record of reception during MAY at a listening post near NEWCASTLEupon-TYNE. A home-constructed three-valve "straight" receiver was used.

A SPLENDID recording of the May Day demonstration in Red Square, Moscow; was the first item of interest heard. This was radiated by Moscow on 25 m. at 22.15 on May 1. "Mickey Mouse's Theatre," heard at 22.45 from W2XAF was also enjoyed, strength R5. Thirty minutes later, DJD repeated a special May Day broadcast consisting of speeches by prominent Ministers, and music. At 23.20, CB1170 was R6 with orchestral music; and at 23.30, W1XAL was just signing off (R7). Shortly after, a comic version of "The Blue Danube" waltz emanated from W2XE (25.36 m.); and CD1190 was R5, with the bolero, typical of South America, at midnight.

Portuguese songs and a news bulletin were heard through CR7BH, Mozambique (25.6 m.), at 18.15 on May 3; and, at 18.20, "Let's all play geography" was sung with gusto at station W3XAL (16.87 m.). Three further items were: W1XAL (19.67 m.) with "I've got my eye on you," at 19.00; W2XAD at 19.50 with the song "The Nightingale" and selections by the Conservatoire orchestra; and W1XAL (25.45 m.) with a news review at 23.10

At 19.55 on the 5th, W2XE (19.65 m.), re-broadcasting one of the Tokio programmes, was R7 with the song, "The Emperor's Daughter." Latest Japanese song hits came over at R9 from JZJ at 21.20, the sister station JZI being rather weak. Brazilian music followed from PRA8 at 22.25; while at 22.45, LRX broadcast a sketch in Spanish. At 00.30 (6th), on 25.26 m., came the words: "This is the Voice of Westinghouse. the name that means everything in Electricity.' Then followed the song, "Serenade to the Stars," then the call-sign "W8XK"—in Spanish and English. At 00.55, both HP5A and CB1170—on the same frequency—were distinguishable. At 01.00, COCX was R7 with Cuban orchestra, and in addition to hearing the call and chime interval signal, the listener was treated to a good, hearty laugh! News from the Spanish war front was obtained through EAQ (30.43 m.) at 01.50; the final "catch" being COCQ with an amusing item: a Spanish lady singing familiar love songs in English.

Late Night Reception

Topical news came from W2XE (19.65 m.) at 23.00 on the 7th, and ten minutes later two Mexican ladies in the "El Chico" revue sang from W2XAD. At 23.20, W8XK (19.72 m.) broadcast "The Star Spangled Banner," and "My Old Kentucky Home;" a sports com-mentary following Between 00.25 and 00.45 fine Cuban music was heard from COGF (25.42 m.) and COCH (31.8 m.); and, at 01.30, HJ1ABP (31.21 m.) was quite good with orchestra, while LRX was outstanding with tangos and rhythmic dancing to castanets. W2XAD (31.4 m.) was R5, with Ralph Valentine and his orchestra; and at 03.00, VUD2, Delhi (31.28 m.)—with native music and singing -was powerful, but rather badly heterodyned.

On the 9th, HS8PJ (15.77 m.) was audible at 15.30 with Siamese songs and orchestra (R4). Between 19.00 and 20.15, VQ7LO, Nairobi, entertained with native music and records at quite good strength. By 22.55, W1XK was heard with dance music and world-wide news. More news from America was obtained through W2XAF, and, around 23.20, a talk on "Colorado Springs" was very interesting. minutes after midnight PMN, with organ tunes, was R6, while PSH, with Brazilian orchestra, was at similar strength.

VQ7LO, Nairobi, provided a news bulletin at 19.00 the same day; and at 21.15, "The Voices of Tokio"—JZK and JZJ—were heard with "Yankee Doodle," "La Marseillaise," selections by the K A.U. University band, and a programme in French. News from Spain came from EAR at 22.55 and, near 23.20, VP3MR, Georgetown, was R5 with call and music. A little later, a supposed new Latin-American on 31.4 m. turned out to be W2XAD with a programme for South America! COCH was next identified at 01.25 (11th) with a news bulletin in Spanish. At 01.45, COBC (30.12 m.)—with frequent reference to "General Electric" and a cock-crow identification signal-was really good. Lastly, W2XE (49.02 m.) was heard at 02 20, with a brief programme sponsored by a tobacco firm. A lady impersonator named Elaine caused much amusement

Listening was resumed on the 14th at 21.45, when details of various sports events between Yale and Harvard Universities were given over W2XE (19.65 m.). At 22.00, W2XAD greeted me with the song, "Goodnight, I'll see you in



South American singers at W2XAF during one of the Spanish broadcasts.

the morning," and, at 22.15, it was learned, through DJD, that a temperature of 68 degrees Fahrenheit had been registered in the surrounding districts of Germany. At 22.30, W1XAL (25.45 m) was really interesting with a recorded talk on "Radio in Education," a Boston professor and an Argentinian lady taking part in the discussion

Sydney, VK2ME

From VK2ME, Sydney, at 07.15 next day, there came over the ether, "Old Man River" (organ), songs by Richard Tauber, and "The Hungarian Rhapsody" (pianoforte). At 14.05, W2XE (13.94 m.) was just finishing a relay from medium-wave station WABC, N.Y., after which an organ recital was given. PMN was very strong in the afternoon with native music and songs, when weird Javanese instruments were played. At 19.45, TFJ began his broadcast with music by the "Icelandic orchestra," followed by a talk on, "Lee Ericsson, the first white man born in America." The speaker said that Lee was born in A.D 1008. At 01.20 (16th), W8XK (25.26 m.) broadcast the cowboy sketch "Moonshine;" and, ten minutés later, child singers were heard from XEW1, Mexico City (25.21 m.). At 01.35, CD1190, Valdivia, was quite strong but spoilt by morse; and by 01.40, W2XE (25.36 m.) was R6 with the foxtrot "My

heart is taking lessons." From 02.00-03.50, all the following stations were well heard: COBC (30.12 m.), bugle call; XEWW, Mexico City (31.58 m.), political news; W2XAF, Jean Dickinson singing "The Last Rose of Summer;" W1XK, "Boston's Problems" (talk); CXA8, Montevideo (31.21 m.), news and orchestra; LRX, with beautiful mandoline music; and COCQ with bolero.

At 20.50 on May 17, W3XAL (16.87 m.) was at fair strength with orchestral music by Sir Edward German. YV4RB, Valencia on 46 m. was strong at 23.00 with South American news; and a few minutes later VP3BG, Georgetown, concluded with songs. Three other "catches" after midnight were COCX, will chimes and cuckoo calls on 25 55 m; PSH (29.35 m), "Radio Balzil"—with interval signal, a note on a stringed instrument and three chimes-broadcasting opera music; and the Cuban COCD.

Early-Morning Listening

On the 19th, the following were heard at strengths varying from R7-9. At 02 10_t HJ1ABG (49.67 m.) broadcast versions of popular tunes; while violi. solos were heard through HJ4ABP (49.75 m.). A few minutes later I picked up W3XAU (49.5 m.) in the midst of a "Spelling Bee" tournament final By 03.00, HJ6ABB, "Radio Manizales" (49.1 m.), was quite loud

with American dance tunes; and at 03.45, COCD (48.92 m), was busy praising a certain brand of tobacco. Near 04.00, YV5RD (48.78 m.), was heard with band marches, and HJ6ABU (48.81 m.), "La Voz de Pereira," with concertinas.

Recordings of music by the London Symphony Orchestra, and dance tunes, were heard over W8XK (48.83 m.) at 04.20. W2XE (49.02 m.), W3XAL (49.18 m.), and W1XK were busy between 04.50 and 05.30 with commentaries of the boxing tournament held by the International Golden Club at the Chicago stadium. Station W2XE signed off at 05.30. At this time TGWA (30.97 m.), was just closing down with the words: "We hope you enjoyed our

- Guatemala now bids you goodprogramme night," the station "leaving the air" until 06.30. At 06.00, Mexico City, was visited through XEWW (31.58 m.), when a Mexican orchestra and some mouth-organ tunes were enjoyed. Finally, at 07.00, VLR, Lyndhurst, was calling on 31.32 m., and, after an interval signal of three chimes and turf news, the announcer said: "Good afternoon, ladies and gentlemen ... There will be songs and melodies at eight o'clock and a comic opera to-morrow night." Then followed foxtrots.

COCM (30.51 m.) was heard on May 24 with cabaret music and songs, and call, in English, at 06.30. ZRD (48.8 m.), Durban, was just audib'e near 19.50. At 20.00, HVJ gave a talk in English on "Whitsuntide," the station broadcasting simultaneously on two wavelengths (announced) of 50.26 m. and 49.75 m. Early in the morning (25th), YV4RB, YV6RC, YV5RH, YV4RC, YV1RH, YV4RD, YV5RP, YV5RJ, and YV5RD—on the 46/49 m band were at good strength. W8XK (13.93 m.) supplied a news bulletin and song at 13 35; and between 16.30 and 17.30, VUD2, Delhi (31.28) m.) with Indian music and weather report, and news in English, was R7.

Fascinating Russian music came over RKI (19.89 m.) at 20.00 on the 26th. After mid-

(Continued at foot of col. 2, page 11)

Short-Wave News-Reel

Compèred by "RANGER"

The facility with which short waves enable which listeners cared to send or bring. The teners to keep in touch with sporting events sum of five dollars is paid to anyone who asks listeners to keep in touch with sporting events in different parts of the world, is well illustrated by our first item this week.

SATURDAY SPORT

SPORTING broadcasts on the short waves provided thrilling listening on Saturday, June 11. Through the facilities of VLR, at 07.30, I was taken to the Melbourne race-track for a commentary on the race then in progress. After a very close and exciting duel Emerald proved to be the winner, passing the winning post a neck in front of Dandy.

From the same station during the afternoon the thrills of the Test Match between England and Australia were conveyed by a ball-by-ball commentary given by W. A. Oldfield and others. Descriptions of Paynter's great innings, Bradman's dismissal, etc., made it possible to enjoy these thrills simultaneously, with the Trent Bridge spectators, in spite of the broadcast's

20,000-miles journey.

A final sporting broadcast came from Denver, Colorado, at 23.00, when W2XAD broadcast a description of the U.S. National Open Golf Championship. At that time (15.00 "Mountain Time") Dick Metz, of Chicago, was leading with a total of 211; Jimmy Hines (214) was second; and Ralph Goodall, the defending champion, third with 215

F. J. R. Yate, Glos.

RADIO AMATEUR HONOURED

The story of the part played by radio including amateur radio—in the American floods of 1937 was told, briefly, in WORLD-RADIO. It is certainly a pleasure to learn of the presentation described below.

On Thursday, June 9, W2XE broadcast the proceedings at a luncheon arranged for the purpose of presenting the 1937 William F. Paley Award to the American amateur Mr. Robert Anderson, of Illinois, for radio rescue work in the 1937

floods on the Ohio River.

Mr. William F. Paley presented the award and told us that Mr. Anderson had achieved a very great honour and his work was to be remembered as displaying both bravery and ingenuity. He then told us that Mr. Anderson had taken his transmitter and equipment in an open boat upon very dangerous flood waters, rigged up his set and an aerial, and maintained contact with rescuers on the river banks for 40 hours, thus helping materially in the rescue of stranded people.

The American Coastguards, the American Red Cross Association, the American Navy, and the A.R.R.L. (the amateurs' association) were also

represented.

Before the luncheon, Mr. Anderson had been speaking to fellow "hams" from an adjoining room which had been furnished to represent a "ham shack."

Leeds.

INFORMATION PLEASE!

Here is an account of another form of "radio contest" in which the questioner may win and a board of experts lose at the rate of five dollars per unanswered question.

A worthy rival to the "spelling bees" appeared in the W8XK programme at 01.30 on June 7, an item known as "Information, please!" and conducted by Mr. John Erskine.

Four well-known men, experts in various professions, were prepared to answer any questions

a question which the experts cannot answer. Such questions as, "Name four living exkings;" "Is an oxygen tank needed by airmen when in the troposphere?;" and, "Who hears the speaker first, people in the rear of the hall, or people listening by radio 3,000 miles away? -were answered correctly.

Eventually a question proved too hard for the experts; it was "What well-known boxer has a name appropriate to his profession?"
The answer was "Armstrong" (John Henry) and the questioner collected his five dollars. I recommend this item to other listeners.

A. W. Pontefract.

THE PRESIDENT'S WITTICISM

Finally, a brief account of an address given to graduates at the U.S. Naval Academy by President Roosevelt.

An interesting broadcast took place on Thursday, June 2, at 17.00, from W3XAL (16.87 m.). Listeners were taken to the U.S. Naval Academy Annapolis, where the issue of diplomas for 1938 was to take place.

Rear-Admiral Wilson Brown, speaking briefly, opened the ceremony. Then President Roosevelt was introduced and addressed the graduates. He advised those about to enter the U.S. Navy to take an intelligent interest in world events. "To reach the top," he said, "you must have a well-rounded knowledge of modern civilisation." "Before you His final words caused laughter: actually become Bachelors of Science let me stress that in the years to come you do not place too much emphasis on the 'bachelor'! Good luck, and happy voyage!" Deafening applause and three hearty cheers for the President followed. Mayor McClaren, of St. John, Newfoundland, also spoke.

The President then began to present the diplomas, bound in blue, yellow, and white ribbon, first to the 23 graduates with honours, then to the remaining 435 in alphabetical order. Afterwards they left for Memorial Hall to receive their commissions in the U.S. Navy.

J. E. O. Bristol.

ALL-WORLD SHORT-WAVE REVIEW

(Continued from opposite page)

night (27th), HJ1ABP, "Cartagena" (31.21 m.), broadcast violin solos; and HJ7ABD, "Radio Bucaramanga" was identified. HH3W, Port-au-Prince (31.1 m.), was fairly good at 01.30 with music and announcements in French. Then HJ6ABH (31.51 m.), "The Voice of Armenia," supplied dance tunes; and COBZ (33.2 m.), "Radio Sallas," COJK (34.62 m.), relaying CMJK, and COBX (33.1 m.) were logged. "No more millionaires for me" was heard from Philadelphia (49.5 m.) at 03.00. Soon after W3XAL (49.18 m.) entertained with selections from Mozart and Beethoven. During his broad-cast (from New York), Sîr Adrian Boult was guest conductor."

The special programme dedicated to WORLD-RADIO and the British Short-Wave League from T14NRH (30.89 m.), "The Voice of Costa Rica," between 03.00 and 04.00 on the 28th, came over The hearty greetings to WORLD-RADIO and the S.W. League, as well as the President's message, the beautiful tangos "Margarita " and " Serenade of Love," and song about the Great Nation with peoples all over the world," were much appreciated.

Below 100 Metres By "NORTHERNER"

(7une 5-11)

THE week under review was again favourable here in the Tyne district, and there was plenty of choice for the DX enthusiast. Signal strengths

here in the Tyne district, and there was plenty of choice for the DX enthusiast. Signal strengths from distant stations during the daytime, however, were often poor, splendid results being again obtained during the early morning periods.

At 05.30 on Sunday, the 49 m. American stations, W8XK, W2XE, and W3XAL were all R7. TGWA, Guatemala City (30.97 m.) attained R7 at 06.05, and COCQ was R8 at 06.30. VK2ME was at fair strength (R4-5) for a short period after 07.00. W2XE maintained R8-9 throughout his afternoon transmission, and VUD2 (31.28 m.) was R6. W3XAL was R4 at 20.00, and around 21.30, W2XAD and W8XK were quite strong. Conditions were rather poor during Monday, and little was heard until 17.30 when W3XAL was R4. At 20.00, W2XAD was R5, W2XE R6, and W8XK rather weak. Reception improved after 21.00 when there were fewer atmospherics. W8XK was R7 soon after midnight and much superior to W2XE, while CB1170 was R6. The 31 m. U.S. stations were just audible and HJ1ABP, LRX, and COCQ were also heard.

At 07.20 and for some time after, on Tuesday, VLR, Lyndhurst, was R6, a big improvement on previous performances. During the afternoon.

At 07.20 and for some time after, on Tuesday, VLR, Lyndhurst, was R6, a big improvement on previous performances. During the afternoon, VUD2 was R6, and the "locals" on 19 and 31 m. compensated for the lack of DX thrills. After 18.10, CR7BH was R3-4; and from 19.45 to the close VQ7LO was decidedly good (R7). At 22.20, W2XAD, W2XE, and W8XK were R8, R7, and R6 respectively. and R6 respectively.

and R6 respectively.
On Wednesday, nothing was heard until 14.25, when W8XK (19.72 m.) put in a surprising appearance (R4). W3XAL was R4 at 18.00, and was more reliable after 20.30. At 20.45, W2XAD was R8, and W8XK, W2XE, and JZK were all R6.
A special early morning search on all bands between 03.00 and 04.30 on Friday, revealed the following 21 stripps, when phenomenal conditions

between 03.00 and 04.30 on Friday, revealed the following 21 stations, when phenomenal conditions were evident: W8XAL, Cincinnati, with a "Radio Artists" programme (R6); W4XB, Miami, slightly heterodyned, but quite good (R5); W2XAD (R7); W2XAF (R7); W1XK (R8); W3XAU (31.32 m.), R5; W8XK (48.83 m.), R8; W2XE (49.02 m.), R8; W3XAL (49.18 m.), R9; T14NRH (R6); HJ1ABP (R7); HP5J (R5); HJ7ABD (R4); TGWA (30.97 m.), R8; COCQ (R7); COCM (R7); COCD (R6); OAX4Z (R6); COCH (R6); XEWW (R5); and COCX (R8).

At 00.30 on Saturday, W8XK was R8, W2XE R4, and CB1170 and CD 1190 were at good strength. The 31 m. Americans W2XAD and W1XK were R5 and R7 before 01.00; and PSH were of entertainment value. On the 46-49 m. band, many Latin-Americans were heard.

band, many Latin-Americans were heard.

Familiar hymns were heard over ZRH, Pretoria (50 m.) at 17.35 on Sunday, the 29th; and at 16.00 the next day, HS8PJ (15.77 m.) concluded the programme with a piece by Schubert on the piano. EA1BO, Burgos (28.93 m.) was R5 at 23.15. CXA2, Montevideo (49.96 m.), was splendidly heard at 23.30 with Tipica music.

Five minutes after midnight (the 31st), seven chimes were heard from PMN, PLP, and YDC, when all were busy giving instructions for "the daily dozen." By 02.40, HP5B (which sounded like HP5P on one occasion), Republic of Panama, on an announced frequency of 11,780 kc/s, or 25.47 m., was at excellent strength. The station signed off about 04.00.

After 04.15, TGWA, Guatemala City, on an announced frequency of 9,685 kc/s (30.97 m.) was heard with a selection from "William Tell," played by the band of the Guatemala garrison. At this time W8XK, W2XE, and W3XAL on 49 m. were all radiating dance music; and tuning a little higher, to 49.33 m., I was thrilled to hear OAX4Z, Lima (Peru), also with fine dance music, the announcer bidding listeners "Good night" (Buenas noches) at approximately 06.00—thus concluding a month of very interesting short-wave listening.

C. A. R.

BBC ENGINEERING SERIES

The Principles of the Pentode Valve

By H. D. McD. ELLIS, M.A., A.M.I.E.E., of the Research Department, BBC

This article describes the fundamental differences fluctuation in the electron stream which flows between triode and pentode valves. It is shown that the pentode, having a high internal impedance, can be regarded as a constant-current ginerator, whereas the triode is essentially a c instant-voltage generator. The high impedance of the pentode is by no means a disadvantage, since it is accompanied by a high amplification factor. Equivalent circuits are given to illustrate the working of the pentode as a constant-current generator. Typical characteristic curves show that in practice the triode tends to introduce some second harmonic, whereas the pentode causes mainly third harmonic.

WHEN the pentode and its forerunner the tetrode were first introduced they were accepted as a tremendous advance in valve design. Subsequently, however, enthusiasm waned when it was found that amplifiers employing pentode valves frequently introduced large values of harmonic distortion, the cause of the excessive distortion being attributed to the

The stigma on the pentode was both unjustified and unfortunate, since the cause of the trouble lay not in the valve itself, but in the fact that it was often operated under unfavourable conditions. Subsequent investigation has shown that the pentode does, after all, represent something approaching the optimum in valve design. Since the early days the behaviour of the valve has become more thoroughly understood, and when used under the correct conditions it is capable of a better performance than any other type of valve. It is hoped that this article will clear away various misconceptions and indicate the lines of thought which make its behaviour understandable.

HIGH IMPEDANCE OF THE PENTODE

The differences in structure between the pentode and the triode are well known, the screen-grid being originally introduced to screen the anode from the control grid, and so reduce the gridto-anode capacity, while the third or suppressor grid serves to deflect the secondary emission which would otherwise flow from the anode to the screen.

An extremely important result of these structural alterations was somewhat unexpected by the early research workers, though it is now fully understood and is, in fact, the fundamental difference between the triode and the pentode. It is that, in the triode, the anode potential has a large effect upon the anode current, while in the pentode, owing to the presence of the screengrid, the effect is negligible. Or, in other words, the pentode has a very high internal impedance. while that of the triode is relatively low.

Before passing on to consider the effects of this difference in impedance it might be of interest to examine exactly how the high impedance of the pentode comes about. It should be remembered that a high anode impedance means that the anode current is but little affected by changes of anode potential, while a low impedance signifies that the current is controlled by the anode voltage. The impedance has no connexion whatever with the D.C. conditions; it is entirely with the changes about the mean state that we are concerned.

In the triode, since the control grid is of relatively coarse mesh, the electric field due to the anode potential is felt at the cathode, and

through the grid to the anode. The triode. therefore, has a relatively low anode impedance, the precise value of which depends on the distance between anode and cathode, the grid mesh or "pitch," and other factors.

In tetrode and pentode valves, however, a screen of close mesh is included between the anode and the control grid. If this were a perfect shield held at a constant potential the electric field inside it-i.e. between it and the cathode-would be unaltered by variations of anode potential. In actual fact it is a gauze structure held at a constant positive potential, which accelerates electrons from the cathode. Most of these electrons shoot through the screen mesh and arrive at the anode. An anode current is therefore obtained which is largely independent of anode voltage, the current arriving at the anode being chiefly determined by the screen potential

In passing, it might be of interest to mention why the pentode has in addition a "suppressor" grid of extremely coarse mesh held at cathode potential. The heavy bombardment of the anode by the electron stream liberates what are called secondary" electrons from the anode, which,

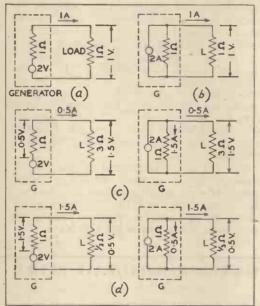


Fig. 1—Equivalent circuits illustrating how a generator may be regarded either as a source of constant current or constant voltage.

when the anode potential falls below the screen potential, are collected by the screen, thereby reducing the net anode current. The suppressor grid prevents these secondary electrons going anywhere but back to the anode, so that in a pentode the anode potential may fall well below the screen potential with little effect upon the anode current.

The high internal impedance of the pentode is no disadvantage, as is commonly supposed; on the contrary, it is entirely due to this characteristic that the pentode can be designed to give results superior to those available from a triode. It is frequently argued that the pentode suffers by reason of its high impedance on account of the loss of amplification implied by the classic equation:

$$G = \frac{Z}{R_a + Z} \mu$$

(where G is the overall gain, Z the load variations of anode voltage therefore cause a impedance, Ra the internal valve impedance,

and μ the amplification factor), the argument being that, for a given value of Z, G must decrease as R_a increases. In point of fact, however, there is no loss of amplification—as will be readily seen when it is realised that μ/R_a (the mutual conductance), which is stantially the same whether the valve is a pentode or a triode, so that as R_a increases so also does μ , and G tends therefore towards a finite maximum value. Other things being equal, therefore-in particular G_m and Z—the pentode gives a higher gain than the triode

The mutual conductance is the basic parameter of a valve since within wide limits it is independent of the valve structure outside the control grid, and is determined solely by the grid structure and potential, and the cathode current. (In this argument the conductance of the total cathode current path is referred to; in the case of a pentode the conductance to the anode is reduced by the proportion of the cathode current which is intercepted by the screen-grid.) That is to say, the performance of a triode and a pentode will be truly comparable if they have similar values of mutual conductance, since this parameter is the real figure of merit for any type of valve.

The ultimate basis of calculations, therefore, especially on pentode valves, should be the parameter G_m and not μ , or, in other words, the valve should be regarded essentially as a constant current generator. In the classic valve equations where the valve parameter μ is employed, the valve is really being represented as a constant voltage generator. These statements may raise doubts regarding the interchangeability of the two conceptions-namely, that of a constant current or of a constant voltage generator-so that the following exposition may be helpful.

EQUIVALENT CIRCUITS

Any electrical generator of given internal impedance may be regarded from two points of view; either as an ideal constant-voltage generator in series with its internal impedance, or as an ideal constant current generator in shunt with its impedance; either conception gives the same result, as an example will show.

Consider a generator whose internal impedance is, for simplicity, say 1 ohm. Suppose that when a load of 1 ohm is connected a power of 1 watt is delivered—i.e., 1 volt is developed across the load. Taking one point of view, the generator may be considered as a source of constant E.M.F. of 2 volts, whatever the load, in series with its internal impedance, as in Fig. 1a. Alternatively, it may be considered as a source of constant current of 2 amps. in shunt with its impedance as in Fig. 1b. It will be observed that, in either case, if the load is short-circuited, a current of 2 amps. will flow in the load circuit, while if the load is open-circuited a potential of 2 volts will exist across the generator terminals. Further, any value of load resistance may be chosen and the two circuits will yield the same result for power in the load, as shown in Figs. 1c and 1d.

It will be seen, therefore, that the two conceptions give identical results, and it is purely a matter of convenience which is employed in any particular circumstances. It has been usual in classical valve theory, as has been stated, to consider the valve as a constant voltage generator and, indeed, when the load impedance is greater than the valve impedance this is perhaps the most suitable line of thought. This conception came to be adopted naturally enough in the days when only triodes were available (whose amplification factors were easily measured) and when load impedances considerably higher than the valve impedances were usually employed. In cases where the valve impedance considerably exceeds that of the load, however, as is frequently the case in pentode valve circuits, the conception of a constant voltage generator may easily lead to misconceptions and tends to give less accurate results.

For example, neither the amplification factor nor the internal impedance of a pentode can be measured accurately, yet both must be known before the voltage gain can be determined if the valve is considered to be a constant voltage device. If, however, the valve is assumed to be a constant current generator, the important parameter is the mutual conductance which can be measured with great precision, and errors in the assumed value of internal impedance have negligible effect. Thus if R_m , μ , and G_m are the valve parameters, the conception of a constant voltage generator gives for G, the overall gain,

$$G = \frac{Z}{R_a + Z}$$

where Z is the load impedance.

If $R_a \gg Z$, as in many pentode circuits, we may write

$$G = \frac{Z}{R_a} \mu$$

But
$$\frac{\mu}{R_a} = G_m$$
; hence $G = ZG_m$.

This result, however, is obtained directly if we consider the valve as a generator of constant current G_m amps, per grid volt, and neglect the current which flows through the shunt R_a in comparison with the load current (just as we neglected Z in comparison with R_a in the equation above). The gain of a pentode valve stage may therefore be calculated mentally merely with a knowledge of Z and G_m . This alternative conception is stressed, not only on account of the simplicity of the calculations and the elimination of errors, but because it enables the behaviour of the pentode to be more clearly understood.

According to our particular preference for either conception it is tempting to argue that in actual physical reality the valve conforms to one type of generator or the other. But since we have access only to the two output terminals of our generator we can do no more than measure the effect it produces, and it has been shown that both types of generator are identical in this respect. The physical equivalent is, however, of no immediate importance, since we are only interested in the effects produced and not in what may or may not be happening within the valve in order to produce these effects.

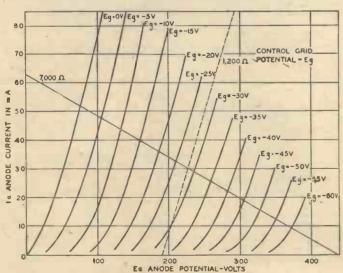


Fig. 2—Typical triode characteristics

TRIODE AND PENTODE CHARACTERISTICS

difference fundamental between a triode and a pentode is shown up very clearly in the anode - voltage - anode - current < characteristics. Figs. 2 and 3 are typical characteristics for a triode and a pentode respectively; anode current being shown a plotted against anode voltage for various constant values of grid various constant values of grid by potential. The internal anode impedance, being the change in anode current for a given change of anode voltage, may be determined at any working point by measuring the slope of the characteristic at that point. It will be seen that, for the particular valves represented, the working impedance is of the order of 1,200 ohms and 100,000

ohms respectively, these values being indicated by the slope of the dotted lines shown.

LOAD-LINES

A few remarks may not be out of place here on the subject of load-lines and valve characteristics, for the benefit of those readers who have not had occasion to deal with this subject.

The current which flows to the anode of a valve is determined at any instant by the values of the grid and anode potentials. If there is no impedance in the anode circuit, the anode potential equals the H.T. supply voltage whatever the anode current may be. The anode current under these conditions may be read from the diagrams shown in Figs. 2 and 3, point where the vertical ordinate corresponding to the supply potentials (and hence anode potentials) intersects the grid potential contour. But if there is a resistance between the anode and the H.T. supply, the anode current will drop the anode potential below that of the supply, and since this voltage drop is directly proportional to the current, the anode resistance may be represented by a straight line (the load-line) passing through the horizontal axis at the point corresponding to the supply voltage (438 volts in the case of the 7,000-ohms load drawn in Figs. 2 and 3).

It will be evident that, since the current through the valve and that through the anode resistance are one and the same, the actual values of anode potentials and anode current for any particular grid voltage are given by the point where the line corresponding to the anode resistance cuts the corresponding grid contour. Further, as the grid voltage varies, this operating point travels up and down the load-line.

In all circuits where a choke or transformer winding is used to carry the D.C. anode current, the impedance of the anode circuit to the rapid variations of anode current caused by the signal may be high, while the resistance to D.C. is very low. Thus, the mean voltage will be nearly equal to the supply voltage and the signal will cause the anode potentials to swing above and below this value, instead of being always left at the supply voltage as in the case of a resistance feed.

The load-line not only provides a rapid means of determining the anode current and anode voltage swing, and therefore the power output, but also gives some indication of the distortion introduced by the valve, as will be seen by reference to Figs. 2 and 3.

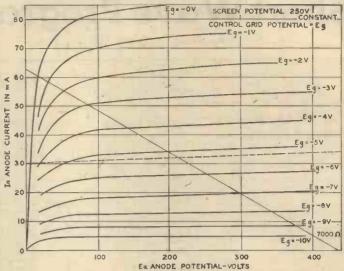


Fig. 3—Typical pentode characteristics

A load-line representing 7,000 ohms has been drawn on each diagram assuming an operating point in each case of $I_a = 34$ mA $V_a = 200$ volts. Then, when a signal is applied to the grid, the instantaneous values of anode current and anode potential are given by the point of intersection of the load-line and the contour corresponding to the grid potential at that instant. If all the intercepts made on the load-line by the contours of grid potential are equal it will be evident that the variations of anode potential will be an exact copy of the variations of grid potential and there will, therefore, be no distortion. If, however, the intercepts are not equal, non-linear distortion will be introduced.

HARMONIC DISTORTION

It is found that normal valve circuits produce a preponderance of either second or third harmonic distortion; the former when the output wave is flattened on one side only, that is the intercepts on the load-line close up at one end only, and the latter when both sides of the wave are flattened, or the intercepts close up at both ends of the load-line.

It will be seen that the triode always produces second harmonic distortion whatever the slope of the load-line, while in the case of the pentode with the load-line shown, the distortion will be chiefly third harmonic because the wave is flattened on both sides. With other values of load the pentode produces second harmonic in addition, and it will be seen that the optimum load is very nearly the one indicated, which extends into the "knee" of the curve. It may safely be said that it was the failure to appreciate the importance of maintaining the load near the optimum value which formerly caused the pentode to be regarded as a potential source of harmonic distortion.

In a later article is is proposed to deal with the causes of distortion in more detail, to indicate the precautions necessary to obtain the best results from a pentode valve, and to show how the characteristics of a triode may be reproduced by using a pentode and negative feedback, with a considerable reduction of harmonic distortion.

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

Most of the articles are by engineers of the BBC. Next week's article will deal with the subject of

"PROGRAMME METERS"

Short-Wave Programmes

All times, including EMPIRE, in B.S.T.

* Electrical Recordings. † Gramophone Records ‡ A second transmitter and aerial working on the same frequency.

SUNDAY, June 19

EMPIRE FREQUENCIES

GSA		6.05	Mc/s		49.59	m.
GSB		9.51	22		31.55	
GSC		9.58	12		31.32	2.2
GSD		11.75	2.2		25.53	11
GSE		11.86	11		25.29	2.2
GSF		15.14	22		19.82	22
GSG		17.79			16.86	9.00
GSH		21.47	2.0		13.97	2.2
GSI		15.26	11		19.66	
GSJ		21.53	12		13.93	T1
GSL		6.11			49.1	2.2
GSN		11.82	3.3		25.38	2.1
GSO		15.18	11		19.76	22
GSP		15.31	3.2		19.6	
GST		21.55	2.2		13.92	2.7
The	En	nire	Prog	ram	mes :	a re

printed in outline for the con-venience of overseas readers.

EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB)

06.00—Big Ben; Empire Service from St. Paul's Cathedral, London.*

06.50—Songs and Duets.

07.15—" Gibraltar."*.

07.45-08.15 — Newsletter, Sports Summary.

Summary.

Transmission 2 (GSJ, GSH, GSG, GSF)
11.45—Big Ben; British Light Music.*
12.30—The Trout Fisherman at Work.*
12.45—Ralph Downes (Organ).
13.15—Jan Berenska's Orchestra.
13.55—Service (R.C.).*
14.30—Big Ben; Newsletter, Sports Summary.

Summary. 14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡, a second transmitter until 17.00 GSF)

15.00—Big Ben; Molly Mooney (Soprano).

15.15 — BBC Military Band; Gladys Palmer (Contralto).

16.00—" Made in Great Britain—Cheshire Cheese."*

16.30—Negro Spirituals.†

16.40—Appeal on behalf of British Empire Leprosy Relief Association.

tion. 16.45—Big Ben; Newsletter, Sports

Summary. 17.10-18.00—Empire Service from St. Paul's Cathedral.*

Transmission 4 (18.20 - 22.00 GSG, GSI, GSD; 18.45-22.00 GSG; 19.30-22.00 GSB; 22.15-00.00 GSG, GSP, GSO, GSF, GSS)

00.00 GSG, GSP, GSO, GSF, GSB, 18.20—Newsletter, Sports Summary. 18.40 — Reginald Foort (BBC Theatre Organ): Gwladys Garside (Contralto); Bernard Ross (Baritone). 19.15 — Mantovani's Tipica Orchestra

19.15 — Mantovani's Tipica Orchestra.
19.35—See 16.40.*
19.40—Talk for Sailors.*
19.50—Bible Sunday Service.
20.45—Amy Evans (Soprano).*
21.05 — Recollections of Lord's
Cricket Ground.
21.35-22.00—Beatrix Marr (Violin).
22.15—Big Ben; Newsletter, Sports
Supmary

Summary.

22.35—BBC Military Band: Gladys
Palmer (Contratto).

7. Wade in Great Britain—
Cheshire Cheese."

23.50-00.00—Epilogue.*

Transmission 5 (GSG, GSO, GSP, GSD, GSB) 00.20—Service (Methodist).* 01.10—Fred Hartley's Sextet.* 01.40—Newsletter, Sports Summary. 02.00-02.30 — Big Ben; BBC Theatre Organ.

Transmission 6 (GSI, GSD, Transmission 6 (GSI, GSD, GSC, GSB)
03.20—Etienne Amyot (Pfte.).
03.40—Bible Sunday Service.*
04.30—Big Ben; Newsletter, Sports Summary.
04.50—See 16.40.*
04.55—Orchestral Music.†
05.05-05.20—Talk for Sailors.*

Arabic Transmission (GSP) 18.20-19.15.

Spanish and Portuguese News (GSO, GSB) 02.30-03.00.

ROMBAY

(31.41 m.)
07.00—Indian Programme; Songs of Orchestra; A Play.
08.30-09.30—European Music.

BOUND BROOK (16.87 m.; 49.18 m.) Programme not received.

(19.83 m.)
15.00—Chimes; First Church of Christ, Scientist. (25.45 m.)
20.00 — Goodwill . Programme

20.00 — Goodwill . Program (Greek). 21.00—Music. 21.30—Goodwill Programme

Scandinavia. 22.00-22.30—First Church of Christ,

(19.52 m.) 15.00-16.00 — Hungarian Music; Talk (Eng.); Messages; Anthem. (32.88 m.) 01.00-02.00 (Mon.)—See 15.00.

(49.18 m.)
18.00—Radio City Music-Hall.
21.00—National Vespers.
06.05—Dance Band.

(31.28 m.) 02.30-04.30—Music; For Youth, 07.30—Film Music, 08.30-09.30 — Sunday Programme (European).

(16.87 m.)

12.25-13.25—For Asia.

13.25-15.30—For the Dutch Indies:
Music; News; at 14.00—Rotterdam Philharmonic.
(31.28 m.)

20.00-21.00—For Africa.

01.15-02.15—For the West.
02.25-03.25—For Latin America.

LYNDHURST

(31.32 m.)
09.00—Choir; Talk: London.
09.50—News; Music.
11.30—Foreign Affairs; Music.
12.10—Play; Octet.
13.15-13.30—News; Epilogue.

(31.35 m.) 19.00—Magic Key, 02.30—Walter Winchell.

MOSCOW

MOSCOW
(25 m.)
(2.00—Talks, etc. (Eng., Ger.).
14.00—Talks (Dutch, Fr.).
16.00—Programme in English.
18.15—Talks, etc. (Ger.).
(19.89 m.)
19.00—Programme in German.
(25 m.)
21.00—Talks, etc. (It.).
22.00—Talks (Eng., Ger.).
(31.25 m.)
00.00—Programme in Spanish,
(19.89 m.; 31.25 m.)
01.00—Programme in English.
(25 m.)
02.30—Programme in French.
04.15—Programme in French.

PARIS-MONDIAL

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng.); Concert.
13.30—News; Talks; Records.
(16.88 m.; 19.68 m.)
14.30-16.00—To be announced.
(25.24 m.; 31.41 m.)
16.15—Records; at 16.40—News
(Arabic).
17.15—News; Records.
19.35—News (Arabic).
19.50-20.30—News (Eng., It.).
22.30—Sports; News (Port.).
(19.83 m.; 25.6 m.)
00.00—Records.
01.00—News (Fr., Sp., Port.).
01.50-02.15—Records; Talk (Sp.).
(25.24 m.; 25.6 m.)
02.30—Records; at 03.15—News.
04.00—News (Eng.); Records.
04.25—Talk (Eng.).
04.40-05.00—News (Ger.).

PITTSBURGH

(13.93 m.)
12.00—Trails to Happiness (19.72 m.)
14.00—Coast to Coast on a Bus.
15.00—Russian Melodies.
15.30—Easy to Remember.

15.48—Dot and Pat.
16.00—First Pres. Church,
17.00—Southernaires.
17.30—Radio City Music-Hall.
18.30—Concert Hall of the Air.
18.45—Melody Master.
19.00—RCA Magic Key.
20.00—Rollini Trio.
20.15—Silver Strings.
20.30—Three Cheers,
20.45—Mischa Mischräkoff.
21.00—Bernie Armstrong (Organ),
21.30—Vespers—Shadyside Church.
22.00—Silhouettes of the West.
22.15 — Baseball Resumé — Philadelphia v. Pittsburgh.
22.30—Jean Sablon,
22.45—Don Hirsch.
23.00—Music—Sports.
23.15—Melody Time.
23.30—A Tale of Today.
(25.26 m.)
00.00—Popular Classics.
00.30—Ozzie Nelson's Orchestra.
01.00—Spy at Large.
01.30—Songs we remember.
02.00 — Hollywood Playhouse —
Tyrone Power.
02.30—Walter Winchell.
02.45—Irene Rich.
03.00—You Don't Say.
03.30—Cheerio.
(48.83 m.)
04.00—Music; News.
04.15—Missionary Broadcast.
05.00-06.00—Orchestras.

PODEBRADY

FOR Europe. (25.34 m.; 25.51 m.) 19.55-22.30—News; Variety; Concert; Central European Review (Eng.); Czech Music; at 20.40—News (Ger.); and at 22.00—News (Fr.). 22.30-22.40—News (Eng.).

RADIO-NATIONS

(16.23 m.)
16.45-17.30—Music; League of Nations and International Labour Office Reports (Eng.).
(20.64 m.; 44.94 m.)
19.45-20.30—See 16.45.
(26.31 m.)
01.00-01.45 and 07.00-07.15 (Mon.)
—See 16.45.
(20.64 m.)
07.30-07.45 (Mon.)—See 16.45.

REYKJAVIK

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

(25.4 m.)

11.00-14.45 — News; Music; at 12.00—News (Eng.), 16.00—News; Opera; News (Eng.); Chamber Music; News.
18.10-19.00—Music; Talk (Arabic).
19.19—News and Talk (Eng.), 19.37—News (It., Serb., Fr.).
20.36—News and Talk (Ger.).
21.00—From Rome (No. 1); Notes (Fr., Eng., Ger.). 23.30—Prom Rome (No. 1); Notes (Fr., Eng., Ger.) 23.30—News (Sp., Greek); Music. 00.00—For Latin America: News; Music; Talk; News (Sp., Port.). 01.30-03.00 — For U.S.A.: News (Eng.); Opera; News.

SCHENECTADY

SCHENECTADY
(13.95 m.)
16.00-17.00—News; Music.
(19.57 m.)
17.15—Variety; Music.
19.30—Fannie's; Variety.
20.30—Sunday Drivers.
(19.57 m.)
21.48 m.)
21.00—Romance Melodies.
21.30—The World is Yours; Songs.
22.30—Radio Newsreel.
23.00—R.C. Hour; A Tale.
(31.48 m.)
00.00-05.00 — For Latin America:
Music; Variety; at 00.30—
Baseball; at 03.30 — Chicago
University Talk.
04.30-05.00—News; Orchestra.
(31.44 m.) (31.4 m.) 00.15-04.00—For Latin America.

TOKIO

(19.79 m. 25.42 m.)
For Europe.
20.30—News and Talk (Eng.);
Folk Songs.
21.05—News (Ger.); Samisen and
Nagauta Music.
21.35-22.00—News (Fr., Jap.).

VATICAN CITY

(19.84 m.) 11.60—For Invalids (Latin, Fr.).

WARSAW

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.); Songs. 01.00—For Children. 01.20—Women's Vocal Trio. 01.50—Talk (Eng.). 02.00-03.00 — Rynas Ensemble;

WAYNE

WAYNE
(13.94 m.)
13.00—Organ; Music.
13.45—Radio Spotlight; Organ.
14.30—Aubade for Strings.
14.55—News.
15.00—Church of the Air.
15.30—For Children.
16.30 — Major Bowes' Capitol Family.
17.30-18.00—Choir and Organ.
(19.65 m.)

17.30-18.00—Choir and Organ.
(19.65 m.)
19.30—To be announced.
20.00—Everybody's Music—Columbia Symphony Orchestra: Conductor: Howard Barlow.
21.00—The Castilians.
21.30—Winnipeg Chorus.
22.00—The Texas Rangers.
22.30-23.00—Dance Music.
(25.36 m.)

22.30-23.00—Dance Music. (25.36 m.) 23.30-04.00 — For S. America Variety; at 00.45—News (Sp.). 03.30-04.00—International News, (49.02 m.) 04.30-05.30 — For S. America Dance Music.

ZEESEN

(19.85 m.)

12.00-14.00—Light Music.
(19.85 m.; 25.49 ya.; 49.83 m.)

16.40—Call (Ger., Eng.); Music.

17.15—Songs by Girls.

17.30—Sunday Programme; Music.

18.45—News; Sunday Concert.

20.00—News (Eng.); Music and

20.00—News (Eng.); Music and Poetry.
21.00—Eastmark Programme.
21.45—Sports.
22.00-22.25—News (Ger., Eng.).
(19.74 m.)
17.10-18.25—Symphony Concert.
(19.74 m.); 25.49 m.)
22.50—Call (Ger., Eng.); Songs.
23.15—Violin Sonata (Medmer).
23.45—News; Sunday Programme.
00.15—Concert; Sports; Greetings.

MONDAY, June 20

EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB)
06.00—Big Ben; "In Town Tonight."*
06.30—Talk on Astronomy.*
06.45—Orchestral Concert.
07.50-08.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG†)
11.45—Big Ben; Sir Harry Lauder 11.45—Big Ben; Sir Harry Lauder (Songs).†
12.00—BBC Scottish Orchestra.
13.00—Maria Donska (Pfte.).
13.50—"The Adventures of Jack and Jill."
14.30—Big Ben; News.
14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG*, a second transmitter until 17.00 GSF)
15.00—Big Ben; "In Town Tonight."*
15.30 — Recollections of Lord's Cricket Ground.*
16.00—Bryan Gipps (Violin); Helene Gipps (Pfte.).
16.30—Vest-pocket Vaudeville.
17.00—Big Ben; News.
17.20-18.00—"It Happens Every Day: " revue.

Transmission 4 (18.20 - 22.00 GSG, GSI, GSD; 18.45-22.00 GSG, GSI, GSD; 18.45-22.00 GSG, GSF, GSB)

00.00 GSG, GSP; GSO, GSF, GSB)
18.20—News.
18.40—" Empire Exchange."*
18.55—Bruce Boyce (Baritone);
Arthur Catterall (Violin).
19.30—" The Open Road."*
20.00—George Edwardes Memories.*
21.00—Welsh Guards Band.
21.30-22.00—Peter Yorke's Orches—

22.15—Big Ben; News. 22.35—David Buchan (Pfte. improvisations).*
22.45—Dance Music.
23.25-00.00—"Topical Gazette."

Transmission 5 (GSG, GSO, GSP, GSD, GSB)
00.20—Dvořák's Chamber Music.
01.00—"It Happens Every Day:" revue.*
01.40—News.
02.00-02.30—Big Ben; BBC Empire

Orchestra. Transmission 6 (GSI, GSD,

GSC, GSB) 03.20—" Music-Hall."* 04.20—Drinking Songs.

04.30—Big Ben; News. 04.50-05.20—"Topical Gazette."*

Arabic Transmission (GSP) 18.20-19.15

Spanish and Portuguese News (GSO, GSB) 02.30-03.00

BOMBAY

(31.41 m.) 03.30-04.30—Indian Music.

ROSTON

(19.67 m.)
19.30—Monitor Views the News.
(25.45 m.)
21.30—World News.
21.50—Science; Music; Talks.
22.55—URSIgram.
23.00—Monitor Views the News.
(49.67 m.)
00.00—Dinner Hour Music.
00.30—June Reveries.
01.00—Sails and Sailors: Racing Etiquette. Etiquette, (25.57 m.)
02.00-04.00—For Latin America.

CHICAGO

(49.18 m.) 22.30—Johnnie Johnston. 23.30—Sports Column.

(31.28 m.) 02.30—Light Music. 04.10-04.30—News (Eng., Hindu.). 07.30—Indian Music. 08.30-09.30—European Music.

(16.88 m.) 13.25-15.30—News; Talks; Music. (31.28 m.) 02.15-03.45—For Latin America,

LYNDHURST

(31.32 m.)
03.25—Stocks; Music; News.
06.00-08.00—History; Music.
09.30—News; Music; Discussion.
11.00—Serial; "Maison Rouge."
12.00—Revue; Jazz; Travel.
13.10—Music.
13.30—News; Australia or Lancashire Cricket Score.
14.00-14.30—Records.

(31.35 m.) 16.45—Edward MacHugh, 23.45—Lowell Thomas,

(25 m.)
12.00 and 18.15—Talks (Ger.).
21.00—Talks, etc. (It., Ger.).
22.00—Talks (Eng., Hung.).
(31.25 m.)
00.00—Programme in Spanish.
(19.89 m.; 31.25 m.)
01.00—Programme in English.
(25 m.)
02.30—Programme in Portuguese.
04.15—Programme in English.

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng.); Concert,
13.30—News; Talks; Records,
(16.88 m.; 19.68 m.)
14.30—Delmon Orchestra, Songs,
15.55-16.00—Exchange; Markets,
(25.24 m.; 31.41 m.)
16.15—Records; at 16.40—News
(Arabic).
17.15—News; Records; Talk,
19.00—News; Records,
19.35—News (Arabic),
19.50-20.30—News (Eng., It.),
22.30—Markets; News (Port.),
(19.83 m.; 25.6 m.)
00.00-02.15—Records; at 01.00 —
News (Fr., Sp., Port.),
(25.24 m.; 25.6 m.)
02.30—Records: Chamber Music,
03.15—News; Records,
04.00—News (Eng.); Records,
04.00—News (Eng.); Records,
04.40-05.00—News (Ger.), PARIS-MONDIAL.

PITTSBURGH

PITTSBURGH
(13.93 m.)
11.45—Trail Blazers.
12.15—Musical Clock,
13.15—News; Musical Clock,
13.45—Lucille and Lanny,
(19.72 m.)
14.00—Kitty Keene:
14.15—Linda's First Love,
14.30—The Editor's Daughter,
14.45—Shopping Circle,
15.00—Just Neighbours,
15.15—Asher and Little Jimmie,
15.30—Josh Higgins of Finchville,
15.45—Ma Perkins,
16.00—Mary Marlin,
16.15—Vic and Sade,
16.30—Pepper Young's Family,
16.45—Getting the Most out of
Life, 16:43—Getting Life. 17:00—News; Dan Harding's Wife. 17:30—Farm and Home. 18:30—Utility Hall. 18:45—Thomas Conrad Sawyer.

JUNE 17, 1938

19.00—Berty and Bob,
19.15—Arnold Grimm's Daughter.
19.30—Valiant Lady.
19.45—Hymns of all Churches.
20.00—Attorney at Law.
20.15—KDKA Home Forum,
20.30—To be announced,
20.45—WHK Revue,
21.00 — Dale McFeatters, News
Reeler.
22.00—Neighbour Nell,
22.15—Baseball,
22.30—Singing Lady,
22.45—Movie Magazine,
23.00—News; Sports,
23.15—Melody Master,
23.30—Sports Column,
23.45—Lowell Thomas,
(25.26 m.)
00.00—Alias Jimmy Valentine,
00.30—Tap Time,
01.00—If I had a Chance,
01.30—Those We Love,
02.00—Now and Then,
02.45—Paul Martin's Music,
03.00—Magnolia Blossoms,
03.30—Radio Forum,
(48.83 m.)
04.00—News; Music You Want,
05.00-06.00—Orchestras. **PODEBRADY**

FODEBRADT
For Europe
(25.34 m.; 25.51 m.)
19.55-22.30 — News; Music; Central European Review (Fr.)
Music; Children's Choir; Fucik
Music; at 20.40—News (Ger.)
and at 22.00—News (Fr.)
22.30-22.40—News (Eng.).

(25.4 m.)

11.00-14.45—News; Music; Talks; at 12.00—News (Eng., Chin.).

16.00—News; Music; Talk; News (Eng.); Arias; News.

18.10 — News, Music, Talk (Brg.); Arias; News. Music, (Arabic).

19.01—Talk (Fr.).

19.19—News (Eng., It.).

19.56 — News and Italian Lesson (Serb., Fr., Ger.).

21.00—From Turin (No. 1); Talks (Fr., Eng., Ger.).

23.30—News (Sp., Greek).

00.00—For Latin America: News; Music; Italian Lesson (Port.); News (Sp., Port.).

13.0-03.00—For U.S.A.: News (Eng.); Songs; Talks; News.

SCHENECTADY (13.95 m.)

14.40-17.00—News; Music.
(19.57 n.).

17.15—Tenor; Farm Programme.

18.00—News; Variety; Music.
19.30—U.S. Navy Band; Talk 19.30—U.S. Navy Band; Talk (Fr.).
20.30—Variety. (19.57 m.; 31.48 m.)
21.00—Variety; at 22.00—News.
23.00—Craig Mathues (Tenor).
23.15—Top Hatters.
23.25—News; U.S. Travel Talk.
(31.48 m.)
00.00-05.00—For Latin America:
News (Eng., Sp.); Music; at 03.00—Marek Weber's Orchestra.
(31.4 m.)

(31.4 m.) 00.15-04.00—For Latin America.

10.10 For Europe. (19.79 m.; 25.42 m.) 20.30—News and Talk (Eng.) 4. 21.05—News (Ger.); Choir. 21.35-22.00—News (Fr., Jap.).

VATICAN CITY (19.84 m.) 16.30-16.45—Church Notes (It.). (50.26 m.) 20.00-20.15—Church Notes (It.).

WARSAW WARSAW
(22 m.; 26.01 m.)
00.00 — News (Pol., Eng.); Talk
(Eng.).
00.15 (Tues.); Music; Talk.
02.00-03.00—Polish Dances; Notes.

(16.89 m.)
12.30—Daily Almanac—Phil Cook.
12.55—News; Music; Mail.
14.25-15.00—News; Music. 14.25-15.00—News; Music.
(19.65 m.)
18.00—Popular Music.
18.30—News; Stocks; Music.
20.30—News; Stocks; Music.
21.00—Dance Music; Songs.
21.00—News; Dance Music.
22.00—News; Dance Music.
22.50-23.00—News; Stocks.
(25.36 m.)
23.30-04.00 — For S. America:
News; Variety; Music.
(49.02 m.)
04.30-05.30 — For S. America:
Dance Music.

17.30—Records; Concert; Topical. 18.30—Trenkner Songs. 18.45—News; Folk Songs. 20.00—News (Eng.); Topical. 20.30—Harpsichord; Records. 21.45-22.25—Talk; News (Ger.,

Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.).
23.00—Nusic and Poetry.
23.45—News; Light Music; Talk.
01.30—Records.

TUESDAY, June 21

. EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB)

06.00—Big Ben; Music-Hall.*

07:00—"Topical Gazette."*

07:30—"Why Greek?" talk.

07.45—Musical Interlude.†

07:50-08.13—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡)
11.45 — Big Ben ; Jack Wilson's Versatile Five.
12.15—"Soho." Versatile Five.
12.15—" Soho."
12.45—BBC Military Band: Gladys Palmer (Contralto).*
13.30 — "Escape:" first-hand accounts by prisoners of war.
14.00—Irish Dance Music.*
14.30—Big Ben; News.
14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡, a second transmitter until 17.00, GSF)
15.00—Big Ben; Nina Milkina

15.00—Big Ben; Nina Milkina (Pite.).
15.30—"Gibralter."*
16.00—Geraldo's Concert Orchestra.*
17.00—Big Ben; News.
17.20—Variety.†
17.40-18.00—Talk on Astronomy.*

17.40-18.00—Talk on Astronomy.*

Transmission 4 (18.20-22.00 GSG, GSI, GSD; 18.45-22.00 GSG; 19.30-22.00 GSB; 22.15-00.00 GSG, GSP, GSD, GSF, GSB)

18.20—News.

18.40 — BBC Empire Orchestra:

Margaret Roux (Soprano).

19.40 — North American-Indian Music.*

20.00 — "The Silver Spoon,"

20.00 — "The Silver Spoon," comedy.
21.00 — Seventeenth-Century Court Leet.*
21.20 — "My Best News Story."*
21.40-22.00 — "Men Who Make The Shows," 22.15—Big Ben; News.
22.15—Big Ben; News.
22.35—"The Adventures of Jack and Jill." 23.15—Jehanne Chambard (Pfte.).
23.30-00.00 — Recollections of Lord's Cricket Ground.*

Transmission 5 (GSG, GSP, GSO, GSD, GSB) 00.20—"Topics of the Day." 00.35—The Trout Fisherman at

00.50—Ywork.*
00.50—Vest-pocket Vaudeville.*
01.20—Seventeenth-Century C Leet.*

01.40—News.

02.00-02.30 — Big Ben;

Makanovitzky (Violin).

Makanovitzky (Violin).

Transmission 6 (GSI, GSD, GSC, GSB)
03.20—" My Best News Story."*
03.40 — Northfleet Silver Band:
Eric Starling (Tenor).
04.30—Big Ben; News.
04.50-05.20 — "Escape:" firsthand accounts by prisoners of war.*

Arabic Transmission (GSP) 18.20-19.15.

Spanish and Portuguese News (GSO, GSB) 02.30-03.00. BOMBAY

(31.41 m.) 03.30-04.30—Indian Music. BOSTON

(19.67 m.)
19.30—Monitor views the News.
(25.45 m.)
21.30—World News.
21.50—Science; Music; Talks.
22.55—URSIgram.
23.00—Monitor views the News.

CHICAGO (49.18 m.) 23.45—Concert.

(31.28 m.)
02.30—Katha from the Ramayana.
02.45—Vocal and Instrumental.
04.10-04.30—News (Eng., Hindu.)
07.30—Devotional Moods (Indian)
08.30-09.30—Variety (European).

ZEESEN
(19.85 m.; 25.49 m.; 49.83 m.)
(19.85 m.; 26.49 — Call (Ger., Eng.); Music.
17.15—Talk (Eng.); Hitler Youth.
(19.71 m.)
(19.71 m.)
(19.71 m.)
(19.71 m.)
(19.71 m.)
(19.71 m.)

(31.28 m.) 19.45-21.40—For Africa. 01.00-04.15—For Latin America.

LYNDHURST (31.32 nt.)
(31.32 nt.)
(32.5-Stocks; Music; News,
(06.00-08.00—Talk; Music; Racing,
(09.30—News; Music; Talk,
12.45—Topical; Dance Band,
13.30-14.30—News; Australia v.
Lancashire Cricket Score;

MILLIS
(31.35 m.)
14.30—Breakfast Club.
23.30—Sports Column.

MOSCOW

(25 m.)
12.00 and 18.15—Talks (Ger.).
21.00—Talks, etc. (It., Ger.).
22.00—Talks, (Dutch, Port.).
(31.25 m.)
00.00—Programme in Spanish.
(19.89 m.; 31.25 m.)
01.00—Programme in English.
(25 m.)
02.30—Programme in French.
04.15—Programme in English.

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng.); Concert.
13.30—News; Talks; Records.
(16.88 m.; 19.68 m.)
14.30—" Carmosine" (de Musset).
15.55-16.00—Exchange; Markets.
(25.24 m.; 31.41 m.)
16.15—Records; at 16.40—News (Arabic).
17.15—News; Records; Shipping.
19.00—News; Records.
19.35—News (Arabic).
19.35—News (Arabic).
19.35—News (Arabic).
19.35—News (Port.).
(19.83 m.; 25.6 m.)
00.00—Records.
01.00—News (Fr., Sp., Port.).
01.50-02.15—Records; Talk (Sp.).
(25.24 m.; 25.6 n.)
02.30—Records; at 03.15—News.
04.00—News (Eng.); Records.
04.25—Talk (Eng.).
04.40-05.00—News (Ger.). PARIS-MONDIAL

PITTSBURGH

(13.93 m.)

11.45—Farm Markets.

12.00—Trail Blazers.

12.15—Musical Clock.

13.15—News; Musical Clock.

13.45—Cowboy Slim.

(19.72 m.)

14.00—Kity Keene.

14.15—Linda's First Love.

14.30—The Editor's Daughter.

14.45—Shopping Circle.

15.00—Just Neighbours.

15.15—Asher and Little Jimmie.

15.30—Josh Higgins of Finchville.

15.43—Ma Perkins.

16.00—Mary Marlin.

16.15—Vic and Sade.

16.30—Pepper Young's Family.

16.45—Getting the Most Out of Life.

17.00—News: Dan Harding's Wife. PITTSBURGH

16.45—Getting the Most Out of Life.
17.00—News; Dan Harding's Wife.
17.30—Farm and Home.
18.30—Cookie Jar Boys.
18.45—Armchair Quartet.
19.00—Betty and Bob.
19.15—Arnold Grimm's Daughter.
19.30—Valiant Lady.
19.45—Hymns of All Churches.
20.00—Attorney at Law.

19.30—Valiant Lady.
19.45—Hymns of All Churches.
20.00—Attorney at Law.
20.15—KDKA Home Forum.
20.38—U.S. Army Band.
21.00—Club Matinée.
22.15—News Reeler.
21.30—Club Matinée.
22.00—The Four Of Us.
22.15—Baseball Resumé—Brooklyn
v. Pittsburgh.
22.30—The Singing Lady.
22.45—Movie Magazine.
23.00—News; Sports.
23.15—Silhouettes of the West.
23.39—Sports Column.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Easy Aces.
00.15—Mr. Keen.
00.30—Time Out—For Fun.
01.30—Information, Please.
02.00—Horace Heidt's Brigadiers.
12.30—Federal Symphony Orchestra.
103.00—NBC Jamboree.

tra.
03.00—NBC Jamboree.
03.30—Music All Our Own.
(48.83 m.)
04.00—News; Music You Want.
05.00-06.00—Orchestras.

PODEBRADY For Europe. (25.34 m.) 19.55-22.30—News; Music; Concerto (Spohr); at 20.40—News (Ger.); and at 22.00—News

22.30-22.40—News (Eng.).

(25.4 m.) 11.00-14.45—News; Music; Talks; at 12.00—News (Eng.).

18.10—News, bic).
19.01—Talk and News (Eng.).
19.37—News (It.).
19.56—News, Talks (Serb., Fr., 19.56—News, Talks (Serb., Fr., Ger.).
21.00—From Turin (No. 1); Notes (Fr., Eng., Ger.).
23.30—News (Sp., Greek).
00.00—For Latin America: News; Opera; Talk; News (Sp., Port.).
01.30-03.00—For U.S.A.: News (Eng.); Music; News.

SCHENECTADY

SCHENECTADY
(13.95 m.)
14.55-17.00—News; Variety.
(19.57 m.)
17.15—Tenor; Farm Programme.
18.00—News (Eng., Fr.); Music.
20.30—U.S., Marine Band.
(19.57 m.; 31.48 m.)
21.00—Variety; at 22.00—News.
22.30—Your Family and Mine.
22.45—Little Orphan Annie.
23.00—Science; Top Hatters.
23.05—News; Mail; Programmes.
(31.48 m.)
00.00-05.00—For Latin America:
English Lessons (Sp.); News
(Eng., Sp.); Variety; at 03.00
—Ripley.
(31.4 m.)
00.15-04.00—For Latin America.

TOKIO 10 HO For Europe. (19.79 m.; 25.42 m.) 20.30—News and Talk (Eng.) Japan Invites You. 21.05—News (Ger.); Song Hits. 21.35-22.00—News (Fr., Jap.).

VATICAN CITY (19.84 m.)
16.30-16.45—Church Notes (Eng.).
(50.26 m.)
20.00-20.15—Church Notes (Eng.).

WARSAW
(22 m.; 26.01 m.)
00.00—News (Pol., Eng.); Talk,
00.15 (Wed.)—Light Music.
00.50—Talk (Eng.).
01.00 — Choir; at 01.20—Talk
(Fr.) 02.00-03.00-Chopin Music; Notes.

WAYNE

WAYNE
(16.89 m.)
12.30—Phil Cook's Almanac,
12.55-15.00—News and Music,
(19.65 m.)
18.00—Popular Music,
18.30—News; Stocks; Music,
19.30—U.S. Marine Band,
20.00—Music; Talk; Variety,
21.45 — Questions before
House; Variety,
22.50-23.00—News; Stocks,
(25.36 m.)

22.50-23.00—News; Stocks.
(25.36 m.)
23.30-04.00 — For S. America;
News (Eng., Sp., Port.); Variety;
at 01.30—Al Jolson; at 03.45—
American Viewpoints.
(49.02 m.)
04.30-05.30—For S. America.

ZEESEN
(19.85 m.; 25.49 m.; 49.83 m.)
16.40—Call (Ger., Eng.); Concert.
17.15—The Happy Family; Violin.
17.50—Concert.
18.45—News; Songs; Talk.
20.00—News (Eng.); Topical.
20.30—Wagner and Verdi Music.
21.45—Light Music.
21.45—Light Music.
21.45—Light Music.
21.60—Call (Ger., Eng.); Talk.
(Eng.); Hitler Youth; Songs.
23.30—Talk (Eng.); News.
00.00—Dance Music; Talks.

WEDNESDAY, June 22

EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB)
06.00 — Big| Ben; "Empire Exchange."*
06.15—Handel's Music.
06.50—For Australian listeners.
07.10—Harp Solos.†
07.20—Peter Yorke's Orchestra.*
07.50-08.15—News. 07.50-08.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF)
11.45 — Big Ben; Seventeenth-Century Court Leet.*
12.05—Light Music from Sweden.
12.30—Music-Hall.*
13.30—"Topical Gazette."*
14.00—Mozart's Chamber Music.
14.30—Big Ben; News.
14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡, a second transmitter until 17.00, GSF)
14.55—Northumberland Plate commentary.

16.00 — News; Music; News.

(Eng.); Music; News.

18.10—News, Music; Talks (Arabic).

19.01—Talk and News (Eng.).

19.37—News (It.).

15.15—BBC Empire Orchestra.

16.00—Big Ben; Sousa Marches.

16.15—" Take Your Choice."

17.00—Big Ben; News.

17.20—Al Collins' Dance Orchestra.

17.40-18.00—" World Affairs." 17.40-18.00—" World Affairs."

Transmission 4 (18.20-22.00 GSG, GSI, GSD; 18.45-22.00 GSG; 19.30-22.00 GSB; 22.15-00.00 GSG, GSP, GSO, GSF, GSB)

18.20—News.

18.45—Act I, "Don Giovanni" (Mozart), from Glyndebourne.

20.35—" World Affairs."*

20.50—" It Happens Every Day: "revue." 20.30—11 Trapped revue, "21.30-22.00—" Escape:" first-hand accounts by prisoners of war, " 22.15—Big Ben; News, 22.35—Northumberland Plate com-22.35—Norman mentary,* 22.45—British Songs,* 23.40-00.00—" World Affairs."* 23.40-00.00—" World Affairs."*

Transmission 5 (GSG, GSP, GSO, GSD, GSB)

00.20—" Empire Exchange."*

00.35—Peter Yorke's Orchestra.*

01.05—Bruce Boyce (Bartione);

Arthur Catterall (Violin).*

01.40—News.

02.00-02.30 — Big Ben; Frank

Biffo's Brass Quintet. Transmission 6 (GSI, GSD, GSC, GSB) 03.20—" World Affairs."* 03.35—Northumberland Plate com-03.35—Normuniocram.
mentary.*
03.50—"The Adventures of Jack
and Jill."*
04.30—Big Ben; News.
04.50-05.20 — Isidore Schwiller Sextet.
Arabic Transmission (GSP)
18.20-19.15.

Spanish and Portuguese News (GSO, GSB) 02.30-03:00.

BOMBAY

(31.41 m.) 03.30-04.30—Indian Music.

BOSTON
(19.67 m.)
19.30—Monitor views the News.
(25.45 m.)
21.30—World News.
21.50—Science; Music; Talks.
22.55—URSIgram.
23.00—Monitor views the News.
(49.67 m.)
00.00—Dinner Hour Music.
00.30—Radio Reception.
00.45-01.45—Modern Radio Course—Automatic Frequency Control.
(25.57 m.)
02.00-04.00—For Latin America.

BUDAPEST (32.88 m.) 01.00-02.00 (Thurs.)—Orchestra j News; Folk-Music; Talks.

DELHI

(31.28 m.) 02.30—Vocal and Instrumental. 04.10-04.30—News (Eng., Hindu.). 07.30—Old Favourites (Indian). 08.30-69.30—Old Favourites (Euro-

(19.71 m.) 15.30-17.00—For the East. (31.28 m.) 01.15-02.15—For the West.

LYNDHURST

(31.32 m.)
03.25—Stocks; Music; News.
04.30-08.15—Concert; Racing.
09.30—News; Music; Talk.
11.00—Inauguration of the Tasmanian Transmitter 7ZR.
11.15—Legend of the Bush.
12.05—Play; Band; Male Quartet.
13.30-14.30—News; Dance Band.

(31.35 m.) 14.55—News. 23.45—Lowell Thomas.

MOSCOW

(25 m.)
12.00 and 18.15—Talks (Ger.); at 12.30—Talks, etc. (Eng.).
21.00—Talks (It., Ger., Fr.).
(31.25 m.)
00.00—Programme in Spanish.
(19.89 m.; 31.25 m.)
01.00—Programme in English.
(25 m.)
02.30—Programme in Dutch.
04.15—Programme in English.

PARIS-MONDIAL

(19.68 m.)
12.00—News (Eng.); Concert.
13.30—News; Talks; Records.
(16.88 m.; 19.68 m.)
14.30—Symphony Concert.
15.55-16.00—Exchange; Markets.

(25.24 m.; 31.41 m.) 16.15—Records; at 16.40—News 16.15—Records; at 16.40—News (Arabic).
17.15—News; Records; Talk.
19.00—News; Records.
19.35—News (Arabic).
19.50-20.30—News (Eng., It.).
22.30—Markets; News (Port.).
(19.83 m; 25.6 m.)
00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.).
(25.24 m.; 25.6 m.)
02.30—Records; at 03.15—News.
04.00—News (Eng.); Records.
04.40-05.00—News (Ger.).

PITTSBURGH

PITTSBURGH

(13.93 m.)

11.45—Farm Markets.

12.00—Trail Blazers.

12.15—Musical Clock.

13.15—News; Musical Clock.

13.45—Lucille and Lanny.

(19.72 m.)

14.00—Kitty Keene.

14.15—Linda's First Love.

14.30—The Editor's Daughter.

14.45—Shopping Circle.

15.00—Just Neighbours.

15.15—Asher and Little Jimmie.

15.30—Josh Higgins of Finchville.

15.45—Ma Perkins.

16.00—Mary Marlin.

16.15—Vic and Sade.

16.30—Pepper Young's Family.

16.45—Getting the Most Out of Life. 16.30—Pepper Young's Family.
16.45—Getting the Most Out of Life.
17.00—News; Dan Harding's Wife.
17.30—Farm and Home.
18.30—Voice of the Farm.
18.46—Thomas Conrad Sawyer.
19.00—Betty and Bob.
19.15—Arnold Grimm's Daughter.
19.30—Valiant Lady.
19.45—Betty Crocker.
20.00—Attorney at Law.
20.15—KDKA Home Forum.
20.30—Orchestra.
21.00—News Reeler.
21.15—Club Matinée.
22.00—Kiddies Klub.
22.16—Baseball Résumé—Brooklyn v. Pittsburgh.
22.30—The Singing Lady.
22.45—Movie Magazine.
23.30—News; Melody Master.
23.30—Sports Column.
23.46—Lowell Thomas.
(25.26 m.)
00.00—Easy Aces.
00.15—Mr. Keen.
00.30—Let's Celebrate.
00.45—Orchestra.
01.00—Roy Shield's Revue.
01.30 — Harriet Parsons, Commentator.
01.45—Betty Louise Myers. 01.30 — Harriet Parsons, Commentator.
01.45—Betty Louise Myers.
02.00—Tune Types.
02.30—Boston Pop Concert.
03.30—KDKA Round-Up.
(48.83 m.)
04.00—News; Music you Want.
05.00-06.00—Orchestras.

PODEBRADY

FOR Europe.
(25.34 m.; 25.51 m.)
19.55-22.30—News; Dance Music; Czech Music; Light Music; at 20.40—News (Ger.); and at 22.00—News (Fr.).
22.30-22.40—News (Eng.).

(25.4 m.) 11.00-14.45—News; Music; Talks (11., Jap.); at 12.00—News (It., Jap.); a. (Eng.); (Eng.). 16.00—News; Opera; News (Eng.);
Music; News.
18.10—News, Music, Talk (Arabic).
19.01—Talk (Ger.).
19.19—News (Eng., It.).
19.56—News and Italian Lessons (Serb., Fr., Ger.).
21.00—From Rome (No. 1); Notes (Fr., Eng., Ger.).
23.30—News (Sp., Greek); Music.
00.00—For Latin America: News; Music; Talk; News (Sp., Port.).
01.30-03.00 — For U.S.A.: News (Eng.); Music; Talk (Eng.);

SCHENECTADY

(13.95 in.)
14.40-17.00—News; Variety,
(19.57 m.)
17.15—Variety; Farm Programme.
18.00—News (Eng., Fr.); Music.
(19.57 m.; 31.48 m.)
21.00—Variety; at 22.00—News.
23.00—America's Schools.
23.15—Top Hatters.
23.25—News; Alma Kitchell.
23.45—Sports Review.
(31.48 m.)
00.00-05.00—For Latin America:
News (Eng., Sp.); Variety,
01.00—Latin-American Concert.
02.00—Town Hall; Music Class.
04.00-05.00—For Latin America:
News (Eng., Sp.); Variety; at 02.30—Boston Pop Concert.

TOKIO TONIO
For Europe.
(19.79 m.; 25.42 m.)
20.30—News and Talk (Eng.); Orchestra.
21.05—News (Ger.); Choir.
21.35-22.00—News (Fr., Jap.).

VATICAN CITY (19.84 m.) 16.30-16.45—Church Notes (Sp.). (50.26 m.) 20.00-20.15—Church Notes (Eng.).

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.). 00.15 (Thurs.)—For Scouts. 00.50—Y.M.C.A. Talk. 01.00—Peasant Wedding (Rybicki). 01.50-03.00 — Reading; Music;

(16.89 m.) 12.30—Phil Cook's Almanac. 12.55-15.00—News and Music. 12.55-10.00—News and Andrews (19.65 m.) 18.00—Popular Music, 18.30—News; Stocks; Variety, 20.30—News; Variety, 22.00—Pfte.; Variety, 23.00-23.05—News; Stocks, 23.00-23:05—News; Stocks. (25.36 m.)
23.30-04.00—For South America: News (Eng., Sp., Port.); Variety; at 01.00—Cavalcade of America; at 02.00—Grace Moore. (49.02 m.) 04.30-05.30—For South America.

ZEESEN
(19.85 m.; 25.49 m.; 49.83 m.)
16.40—Call (Ger., Eng.); Concert.
17.15—Books; Folk Music.
17.50—Concert; Folk Music.
18.90—Talk (Eng.): Labour Service.
18.45—News; Sailor ahoy!
20.00—News (Eng.); Topical.
20.30—Press Review; Operettas.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Greetings.
23.46—News; Operetta Music.
23.45—News; Operetta Music.
13.45—News; Operetta Music.
13.45—News; Operetta Music.
13.40—Hitler Youth Midsummer Festival; Hitler Youth Songs. ZEESEN

THURSDAY, June 23 **EMPIRE**

Transmission 1 (GSG, GSO, GSF, GSD, GSB)

66.00—Big Ben; "Take Your Choice."*

06.45—"World Affairs."*

07.00—Northumberland Plate commentary.* mentary.*
07.15—BBC Empire Orchestra.
07.50-08.15—News.

07.50-08.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF)
11.00—Boxing commentary: Louis v. Schmeling.*
12.00—Big Ben; Sidney Torch (Cinema Organ).
12.30—"At the Black Dog."
13.00—Light Classical Concert.
13.45—Vest-pocket Vaudeville.*
14.15—"World Affairs."*
14.30—Big Ben; News.
14.50-15.00—Interlude.†

14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡, a second transmitter until 17.00 GSF)
15.00—Isig Ben; BBC Singers.
15.30—"Soho."*
16.00—International Horse Show.
17.00—Big Ben; News.
17.20—Tak for listeners in India.
17.35-18.00—"Men Who Make the Shows."*

17.35-18.00—" Men who Make the Shows,"*

Transmission 4 (18.20 - 22.00 GSG, GSI, GSD; 18.45-22.00 GSG; 19.30-22.00 GSB; 22.15-00.00 GSG, GSP, GSD, GSF, GSB)

18.20—News.

18.40—" At the Black Dog,"*
19.10—Fred Hartley's Sextet.
19.45—Talk on Astronomy.
20.00—" Topical Gazette,"*
20.30—David Buchan (Pite. Improvisations).*
20.40—" Hungaria Gipsy Party."
21.20-22.00 — Abracadabra: programme of rites and spells.
22.15—Big Ben; News.
22.35—Yehudi Menuhin (Violin).†
22.50—Topical talks.
23.10-00.00—"Take Your Choice."*

Transmission 5 (GSG, GSP,

Transmission 5 (GSG, GSP, GSO, GSD, GSB) 00.20—"Why Greek?" talk.* 00.35—Music from "Martha."* 01.40—News. 02.00-02.30—Big Ben; Maurice Winnick's Orchestra.

Transmission 6 (GSI, GSD, GSC, GSB)

03.20—Topical talks.*
03.40—BBC Empire Orchestra:
Walter Widdop (Tenor).
04.30—Big Ben; News.
04.50-05.20—"At the Black Dog."

Arabie Transmission (GSP) 18.20-19.15.

Spanish and Portuguese News (GSO, GSB) 02.30-03.00.

BOMBAY (31.41 m.) 03.30-04.30—Indian Music.

BOSTON (25.45 m.) 19.00-21.00—From Harvard Uni-

versity.
21.30—World News.
21.50—Science; Music; Talks.
22.55—URSIgram.
23.00—Monitor views the News.

CHICAGO (19.18 m.)
22.30—Edward Davies (Baritone),
23.30—Sports Column.

(31.28 m.) 02.30—Music, Variety. 04.10-04.30—News (Eng., Hindu.). 07.30—Old Favourites (Indian). 08.30-09.30—European Music.

HUIZEN

(16.87 m.) 13.25-15.30—For the Dutch Indies. LYNDHURST

(31.32 m.)
03.25—Stocks; Music; News.
04.30-08.00—Concert; Racing.
09.30—News; Music; Talk:
11.00—Play; Ensemble.
12.45—Choir; Foreign Affairs.
13.15-14.30—Dance Band; at 13.30

MILLIS

(31.35 m.) 16.45—Edward MacHugh. 23.30—Sports Column.

MOSCOW

(25 m.) 12.00 and 18.15—Talks (Ger.). 21.00—Talks (It., Ger., Fr.). 23.00—Programme in Spanish. (31.25 m.)

(31.25 m.) 00.00—Programme in Spanish (19.89 m.; 31.25 m.) 01.00—Programme in English. (25 m.) 02.30—Programme in French. 04.15—Programme in English.

PARIS-MONDIAL

(19.68 m.)

12.00—News (Eng.); Concert.

13.30—News; Talks; Records.

(16.88 m.; 19.68 m.)

14.30—Albert Wolff Songs.

15.00—Chamber Music, Songs.

15.55-16.00—Exchange; Markets.

(25.24 m.; 31.41 m.)

16.15—Records; at 16.40—New (Arabic). 16.40-News

16.15—Records; at 16.40—News (Arabic).
17.15—News; Records; Poems.
19.40—News; Records.
19.35—News (Arabic).
19.35—News (Arabic).
19.35—News (Arabic).
19.38—News (Bng., It.).
22.30—Markets; News (Port.).
(119.88 m.; 25.6 m.)
00.00—Records; at 01.00—News (Fr., Sp., Port.).
(25.24 m.; 25.6 m.)
02.30—Records; at 03.15—News.
04.00—News and Talk (Eng.).
04.35—Records.
04.40-05.00—News (Ger.).

PITTSBURGH

PITTSBURGH
(13.93 m.)
11.45—Farm Markets.
12.00—Trail Blazers.
12.15—Musical Clock.
13.15—News; Musical Clock.
13.45—Vass Family.
(19.72 m.)
14.00—Kitty Keene.
14.18—Linda's First Love.
14.30—The Editor's Daughter.
14.45—Shopping Circle.
15.00—Just Neighbours.
15.15—Asher and Little Jimmie.
15.30—Just Neighbours.
16.16—Asher and Little Jimmie.
15.45—Ma Perkins.
16.00—Mary Marlin.
16.15—Vic and Sade.
16.30—Pepper Young's Family.
16.45—Getting the Most Out of Life.
17.00—News; Dan Harding's Wife.
17.30—Farm and Home.
18.30—Voice of the Farm.
18.46—To be announced.
19.00—Betty and Bob.
19.15—Arnold Grimm's Daughter.
19.30—Valiant Lady.
19.34—Valiant Lady.
19.35—Hymns of all Churches.
20.00—Attornéy at Law.
20.15—KDKA Home Forum.

Orchestra:

21.00—News Reeler.

22.15—Club Matinée.
22.00—The Four of Us.
22.16—Baseball Resumé—Brooklyn
v. Pittsburgh.
22.30—The Singing Lady.
22.46—Movie Magazine.
23.00—News; Silhouettes.
23.30—Sports Column.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Easy Aces.
00.15—Mr. Keen.
00.30—Let's Celebrate.a
00.45—To be announced.
01.46—Choir Symphonette.
01.30—Rhythm School.
01.45—Choir Symphonette.
03.00—Pulitzer Prize Plays.
(48.83 m.)
04.00—News; Music You Want.
05.00—66.00—Orchestras.

PODEBRADY

FOT EUrope. (25.34 m.; 25.51 m.) 19.55-22.30—News; Wind Band; Concert; Dance Music; Sonatina (Dvořák); at 20.40—News (Ger.); and at 22.00—News (Fr.). 22.30-22.40—News (Eng.).

ROME

ROME
(25.4 m.)
11.00-14.45—News; Music; Talks; at 12.00—News (Eng.).
16.00—News; Music; Talk; News (Beng., Eng.); Opera; News.
18.10—News, Music, Talk (Arabic).
19.01—Talk in Czech.
19.19—News and Talk (Eng.).
19.37—News (It., Serb.).
20.15—News, Talks (Fr., Ger.).
21.00—From Rome (No. 1); Notes (Fr., Eng., Ger.).
23.30—News (Sp., Greek).
00.00—For Latin America: News; Music; Italian Lesson (Sp.); News (Sp., Port.).
01.30-03.00 — For U.S.A.: News (Eng.); Opera; Talk; News.

SCHENECTADY

(13.95 m.)
(14.55-17.00—News; Variety.
(19.57 m.)
17.15—Songs; Farm Programme.
18.00—News (Eng., Fr.); Variety.
(19.57 m.; 31.48 m.)
21.00—Variety; at 22.00—News.
22.30—Science Forum; Comments.
23.15—Three Manhattanites.
23.25—News; Tune Twisters. 23.15—Three Manhattanites,
23.25—News; Tune Twisters,
23.25—News; Tune Twisters,
23.45—Orchestra,
(31.48 m.)
60.00-05.00—For Latin America:
News (Eng., Sp.); Variety,
01.00—Rudy Vallee,
02.00—Good News of 1938,
03.00—Bing Crosby; Sports,
04.15-05.00—Orchestras,
(31.4 m.)
60.15-04.00—For Latin America:
News; Music; at 02.00—
Toronto Symphony Orchestra,

TOKIO

(19.79 m.; 25.42 m.) 20.30—News and Talk (Eng.); Western Music. 21.05 — News (Ger.); Popular Music. 21.35-22.00-News (Fr., Jap.).

VATICAN CITY

(19.84 m.) 16.30-16.45—Church Notes (Fr.). (50.26 m.) 20.00-20.15—Church Notes (Fr.).

WARSAW

WARSAW (22 m.; 26.01 m.) 00.00—News (Pol., Eng.); Talk Music. 00.50-03.00 (Fri.)—Talk (Eng.) Music; Notes.

WAYNE
(16.89 m.)
12.30—Phil Cook's Almanac,
12.55-15.00—News and Music,
(19.65 m.)
18.00—Popular Music,
18.30—News; Stocks; Dances,
19.30—Salon Orchestra; Music;
at 20.30—U.S. Army Band;
Books,
21.45—Questions before Senate,
22.00—Revue; Ben Bernie,
23.00-23.05—News; Stocks,
(25.36 m.)

23.00-23.05—News; Stocks.
(25.36 m.)
23.30-04.00 — For S. America:
News (Eng., Sp., Port.); Variety;
Music; at 02.00—Major Bowes'
Amateurs.
(49.02 m.)
04.30-05.30—For S. America.

ZEESEN (19.85 m.; 25.49 m.; 49.83 m.) 16.40—Call (Ger., Eng.); Concert, 17.15—Talk; Brahms Pfte, Music. 17.45—Greetings (Afrikaans), 17.50—Concert; Hitler Youth Midsummer Festival.

18.45—News; Band. 20.00—News (Eng.); Topical. 20.30—"The Pied Piper"—Play; 20.30—"The Pied Piper"—Play ;
Music.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Books.
23.15—Lora Music (Songs, Violin and Pfte.)—the Composer at the Pfte.
23.45—News; Band.
01.00—Folk Music; Topical.
01.30—Variety Music.

FRIDAY, June 24 EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB)

06.00—Big Ben; "The Adventures of Jack and Jill."

06.40—"My Best News Story."*

07.00—BBC Military Band: Gladys Palmer (Contralto).*

07.45—"Next Week's Programmes."

07.50-08.15—News.

07.50-08.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSP)
11.25—England v. Australia.
11.40—Violet Carson (Songs).
11.55—Willie Walker Octet.
12.30—England v. Australia.
12.40—Topical talks.*
13.00—Big Ben; Popular tunes.†
13.20—England v. Australia.
13.35—'Next Week's Programmes."
13.45—Reginald Foort (BBC Theatre Organ).

13.45—Reginald Foort (BBC 1 heatre Organ).
14.15—England v. Australia.
14.30—Big Ben; News.
14.50-15.00—Interlude.†
15.00 - 16.30 GSP; 16.45 - 18.40 GSD—Test Match Commentary.

GSD—Test Match Commentary.

Transmission 3 (GSJ until 16.30, GSH, GSG, GSG‡, a second transmitter until 17.00; GSF from 16.45)

15.00—Big Ben; Music-Hall.*

16.20—David Buchan (Pfte. improvisations).*

16.30—England v. Australia.

16.35—"In and Out of Rhythm."

17.00—Big Ben; News.

17.20—"Next Week's Programmes."

17.30—England v. Australia.

17.40—Light Orchestral Music.†

17.55—"Topical Gazette."*

18.25-18.40—England v. Australia.

Transmission 4 (19.00 - 22.00

18.25-18.40—England v. Austraha.

Transmission 4 (19.00 - 22.00 GSG, GSI, GSD, GSB; GSG; 22.15-00.00 GSG, GSP, GSO, GSF, GSB)

19.00—Big Ben; News.
19.20—Topical talks.*
19.40—Bassoon Solos.†
19.50—"Next Week's Programmes."
20.00 — "The Old-Time Music-Halls."

Halls,"

21.00—Helen Just ('Cello).

21.15—22.00—"Take Your Choice."*

22.15—Big Ben; News.

22.35—Dance Music.

23.05—England v. Australia.

23.20—"At the Black Dog."*

23.50-00.00—"Next Week's Programmes."

grammes."

Transmission 5 (GSG, GSP, GSO, GSD, GSB)

00.20—Orchestral Music.†

00.30—Talk on Astronomy.*

00.45—British Light Music.

01.30—"Next Week's Programmes."

01.40—News.

02.00-02.30—Big Ben; Songs and Duets.

Duets.

Transmission 6 (GSI, GSD, GSC, GSB)
03.20—"Take Your Choice."*
04.05—Frank Mannheimer (Pfte.).
04.30—Big Ben; News.
04.50—Operatic Music.†
05.10-05.20—"Next Week's Programmes."

Arabic Transmission (GSP)
18.20-19.15

Spanish and Portuguese News (GSO, GSB) 02.30-03.00

ROMBAY (31.41 m.) 03.30-04.30—Indian Music,

BOSTON

BOSTON
(25.45 m.)
16.30—Phi Beta Kappa—Oration from Harvard University.
(19.67 m.)
19.30—Monitor Views the News.
(25.45 m.)
21.30—World News.
21.50—Science; Music; Talks.
22.55—URSIgram; World News.
(49.67 m.)

22.55—URSIgram; World News. (49.67 m.) 00.00—Dinner Hour Music. 00.45—Pathways to Peace; Music. 01.30—Mail.

(25.57 m.) 02.00-04.00—For Latin America.

CHICAGO (49.18 m.) 23.45—Vagabonds' Quartes.

DELHI

(31.28 m.)
02.30—Recitation.
02.45—Vočal and Instrumental.
04.10-04.30—News (Eng., Hindu.).
07.30—Indian Music (Recorded).
08.30-09.30—The Three B's (Euro-

HUIZEN

(16.87 m.) 13.25-15.30—For the Dutch Indies.

LYNDHURST

(31.32 m.) 03.25—Stocks; Music; News, 06.00-08.00 — For Schools; Concert.

09.30—News; Music; Talk.

11.00—Second Test Match, Australia v. England, at Lord's.

13.30-18.30 — News; Test Match

MILLIS

(31.35 m.) 14.55—News. 23.45—Lowell Thomas.

MOSCOW

(25 m.)

12.00 and 18.15—Talks (Ger.).

21.00—Talks, etc. (It., Ger.).

22.00—Talks (Eng., Ger.).

(31.25 m.)

00.00—Programme in Spanish.
(19.89 m.; 31.25 m.)

01.00—Programme in English.
(25 m.)

02.30—Programme in Portuguese.
04.15—Programme in English.

PARIS-MONDIAL

PARIS-MONDIAL

(19.68 m.)

12.00—News (Eng.); Concert.

13.30—News; Talks; Records.

(16.88 m.)

14.30—Delannoy Music.

15.55-16.00—Exchange; Markets.

(25.24 m.; 31.41 m.)

16.15—Records; at 16.40—News (Arabic).

17.15—News; Records; Talk.

19.00—News; Records.

19.35—News (Arabic).

19.35—News (Arabic).

22.30—Mexes (Fr., 1t.).

22.30—Markets; News (Port.).

(19.83 m.; 25.6 m.)

00.00—Records.

01.00—News (Fr., Sp., Port.).

01.50-02.15—Records; Talk (Sp.).

(25.24 m.; 25.6 m.)

02.30—Records; at 03.15—News.

04.00—News (Eng.); Records.

04.25—Talk (Eng.).

04.40-05.00—News (Ger.).

PITTSBURGH

(13.93 m.)

11.45—Farm Markets.

12.00—Trail Blazers.

12.15—Musical Clock.

13.45—Jerry Sears' Music Makers.

(19.72 m.)

14.00—Kitty Keene.

14.15—Linda's First Love.

14.30—The Editor's Daughter.

14.45—Shopping Circle.

15.00—Just Neighbours.

15.15—Asher and Little Jimmie.

15.30—Josh Higgins of Finchville.

15.45—Ma Perkins.

16.00—Mary Marlin.

16.15—Vic and Sade.

16.30—Pepper Young's Family.

16.45—Getting the Most out of Life. **PITTSBURGH** 16.45 — Getting the Most out of Life.
17.00—News; Harding's Wife.
17.30—Farm and Home.
18.30—Voice of the Farm.
18.45—Jack and Loretto Clemens.
19.45—Betty and Bob.
19.15—Arnold Grimm's Daughter.
19.30—Valiant Lady.
19.45—Betty Crocker.
20.00—Baseball Game—Boston v. Pittsburgh 20.00—Baseball Game—Boston v. Pittsburgh.
22.00—News Reeler.
22.15—Attorney at Law.
22.30—Novie Magazine.
22.45—Dog Heroes.
23.00—News, Sports.
23.15—Melody Master.
23.30—Daily Sports Column.
23.45—Lowell Thomas.
(*5.26 m.)
00.00—Dot and Pat.
00.15—Music is my Hobby.
00.30—Let's Celebrate.
00.45—Variety Items.
01.00—Maurice Spitalny's Orchestra. 01.00—Matrice Spitainy's Ctra.
01.30—Variety.
02.30—Royal Crown Revue.
02.30—NBC Spelling Bee.
03.00—Paul Martin's Music.
03.30—Variety.
(48.83 m.)
04.00—News.
04.15—Music You Want.
05.00—Orchestra.
05.15—DX Club.
05.30-06.00—Orchestras.

PODEBRADY

FOR Europe. (25.34 m.; 25.51 m.)
19.55-22.30—News; Light Music; Concert; Quartet (Kromer-Kramar); Slovak Songs; at 20.40—News (Ger.), and at 22.00—News (Fr.).
22.30-22.40—News (Eng.).

(25.4 m.)

11.00-14.15—News; Music; Talks; at 12.00—News (Eng.).

16.00 — News; Music; News (Eng.); Sports; News.

18.10—News, Music, Talk (Arabic)

18.10—News, Music, Talk (Arabic).
19.01—Talk (Dutch).
19.19—News (Eng., It.).
19.56—News and Italian Lessons (Serb., Fr., Ger.).
21.00—From Turin (No. 1): Talks (Serb., Fr., Eng., Ger.).
23.30—News (Sp., Greek); Music.
00.00—For Latin America: News; Music; News (Sp., Port.).
01.30-03.00—For U.S.A.: News (Eng.); Music; News.

SCHENECTADY

(13.95 m.)
16.00—Viennese Ensemble.
16.30—Sweethearts of the Air.
16.45-17-00—Hollywood Brevities.
(19.57 m.)
17.15—Edward Gamage (Tenor).
17.30—Farm Programme.
18.00—News; Escorts and Betty.
18.30—Words and Music.
19.00—News (Fr.).
19.15—The New World Salutes the Old.

19.15—The New World Salutes the Old.
19.30 — Portraits of Famous Americans.
19.45—Recorded Programme,
20.00—Radio Guild.
(19.57 m.; 31.48 m.)
21.10—What's Ahead.
21.15—There was a time when.
21.30—Matinée Melodies.
22.00—American News Tower.
22.15—Church in the Wildwood.
22.30—Your Family and Mine.
22.45—Little Orphan Annie.
23.00—Education in the News.
23.15—Piano Time.
23.25— News; Home Programme (Sp.).

(Sp.).
(31.48 m.)
(90.00-05.00—For Latin America.
00.00—Dance Music (Sp.).
00.15—Uncle Ezra.
00.30 — Stocks; Sports; News

00.15—Uncle Ezra.

109.30 — Stocks; Sports; News
(Sp.).
11.00—Lucille Manners (Soprano).
10.100—Lucille Manners (Soprano).
10.100—Farm Forum.
102.00—Waltz Time.
102.30—Literature (Sp.).
103.00—The First Nighter.
103.30—Hollywood Gossip.
103.45—Dorothy Thompson; Variety.
104.30-05.00—Orchestra.
(31.4 m.)
109.15-04.00—For Latin America.
109.15—Variety Musicale (Port.).
109.30—Stocks; Sports.
109.30—Stocks; Sports.
109.30—The Portuguese Hour.
102.00—Dance Music.
102.30—Comments on Electricity.
102.45—Concert Master.
103.30—04.00—Dance Music.

(19.79 m.; 25.42 m.) For Europe. 20.30—News and Talk (Eng.). 21.05—News (Ger.); Songs Work. 21.35-22.00—News (Fr., Jap.).

VATICAN CITY

(19.84 m.) 16.30 16.45—Church Notes (Ger. or It.)
(50.26 m.)
20.00-20.15—Church Notes (Ger.).

WARSAW

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.); Songs Talk. 01.00—Polish Dances; Talk (Fr.). 02.00-03.00—Light Music; Notes.

WAYNE
(16.89 m.)
12.30—Daily Almanac—Phil Cook.
12.55—News; Music; Variety.
14.25-15.00—News; Music.
(19.65 m.)
18.00—Popular Music.
18.00—News; Stocks; Variety.
20.00—Buffalo Summer Theatre.
20.30—Variety; Music; at 21.45,
World Economic Co-operation.
22.50-23.00—News; Stocks.
(25.36 m.)
23.30-04.00—For S. America: News,
Music, Talks, etc.
(49.02 m.)
04.30-05.30—For S. America:
Dance Music.

ZEESEN

ZEESEN
(19.85 m.; 25.49 m.; 49.83 m.)
16.40—Call (Ger., Eng.); Concert.
17.15—Schubert Pfte. Duet; Music.
18.15—Talks (Afrikaans, Ger.).
18.45 — News; "Waxworks"—
Sequence.
20.00—News (Eng.); Topical.
20.30—Markets; Music.
21.30—Symphony Concert.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Music.
23.45—News; "The Pied Piper"
—Play.
00.45—Symphony Concert; Topical.
01.30—Music.

SATURDAY, June 25

EMPIRE

Transmission 1 (GSG, GSO, GSF, GSD, GSB) 06.00—Big Ben; "At the Black Dog.''*

66.30—Trumpet Solos.†

66.40—Music from "Martha.''*

77.40—'London Log."

77.50-08.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG\$, GSP)

11.45 — Big Ben; "Take Your Choice."

12.30—England v. Australia.

12.40—Gershom Parkington Quin-

12.40—Gershom Parkington Quintet,
13.20—England v. Australia,
13.35—BBC Theatre Organ,
14.05—"London Log,"*
14.15—England v. Australia,
14.30—Big Ben; News,
14.50-15.00—Interlude.†
15.00-16.30—GSP,
16.45-18.40—GSD; Test Match commentary.

commentary.

Transmission 3 (GSJ until 16.30, GSH, GSG, GSG±, a second transmitter until 17.00; GSF from 16.45)

15.00—Big Ben; "Monologues in Melody."

15.15—"At the Black Dog."*

15.45—Polo Champion Cup.

16.15—Banjo Music.†

16.25—Fred Hartley's Sextet.*

17.30—Big Ben; News.

17.30—England v. Australia.

17.40—Sid Millward's Band.

18.25-18.40—England v. Australia.

Transmission 4 (19.00-22.00

18.25-18.40—England v. Australia.

Transmission 4 (19.00-22.00
GSG, GSG+, GSI, GSD, GSB;
22.15-00.00 GSG, GSP, GSO,
GSF, GSB)
19.00—Big Ben; News.
19.25—Musical Interlude.†
19.30—"In Town Tonight."
20.00—"Palace of Varieties."
21.00—"London Log."*
21.15-22.00 — Excerpt from
"Pleasure on Parade."
22.15—Big Ben; News.
22.40—BBC Theatre Orchestra.
23.15—England v. Australia.
23.30-00.00—"Soho."*

Transmission 5 (GSG, GSP,

23.30-00.00—"Soho."*

Transmission 5 (GSG, GSP, GSO, GSD, GSB)

00.20—Excerpt from "Pleasure on Parade."
01.10—"In Town Tonight."*
01.40—News.
02.05-02.30—Harriet Cohen (Pfte.).

02.05-02.30—Harriet Cohen (Pfte.).
Transmission 6 (GSI, GSD, GSC, GSB)
03.20—"Rhythm Express."*
04.10—Harry Brindle (Bass).
04.30—Big Ben; News.
04.55—"London Log."*
05.05-05.20—"Fireside Music."
Arabic Transmission (GSP)
18.20-19.15.

Spanish and Portuguese News (GSO, GSB) 02,30-03.00.

BOMBAY (31.41 m.) 03.30-04.30—Indian Music.

BOSTON

(19.67 m.)

19.30—Monitor views the News. (25.45 m.)

21.50—Science; URSIgram.

22.00—World Youth speaks.

23.00—Monitor views the News.

BUDAPEST

(32.88 m.) 00.00-01.00 (Sun.) — Serenades Folk-Music; Orchestra; News.

CHICAGO (49.18 m.) 21.00—Club Matinée—Variety. 06.05—Dance Band.

131.28 in.)
102.30—Vocal and Instrumental.
104.10-04.30—News (Eng., Hindu.).
17.30—For Women.
18.00—Indian Music.
18.30-09.30 — European Dance Music.

(16.87 m.) 13.25-15.30—For the Dutch Indies.

LYNDHURST

(31.32 m.)
03.25—Stocks; News; Music.
04.15-08.30—Racing; Music.
09.30—News; Music; Talk.
11.00 — Second Test Match at
Lord's—Australia v. England.
14.00-18.30—News and Test Match

(31.35 m.) 14.30—Breakfast Club. 02.00—National Barn Dance.

MOSCOW

(25 m.)
12.00 and 18.15—Talks (Ger.).
21.00—Talks (It., Ger., Fr.).
23.00—Programme in Spanish.
(31.25 m.)
00.00—Programme in Spanish.
(19.89 m.; 31.25 m.)
01.00—Programme in English.
(25 m.)
02.30—Programme in French.
04.15—Programme in English.

PARIS-MONDIAL (19.68 m.)

11.00—Records; Talk (Yugoslav).
12.00—News (Eng.); Music.
13.30—News; Talks; Records.
(16.88 m.; 19.68 m.)
14.30—Sketch, with Orchestra.
15.40-16.00—Songs.
(25.24 m.; 31.41 m.)
16.15—Records; at 16.40—New (Arabic) (25.24 m.; 51.44 m.)
61.15—Records; at 16.40—News (Arabic).
17.15—News; Records; Talk.
19.00—News; Records.
19.35—News (Arabic).
19.50-20.30—News (Eng., It.).
22.30—Markets; News (Port.).
(19.83 m.; 25.6 m.)
00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.).
(25.24 m.; 25.6 m.)
02.30—Records; at 03.15—News.
04.00—News (Eng.); Records; Talk.
04.40-05.00—News (Ger.). 16.40—News

04.40-05.00—News (Ger.),

PITTSBURGH
(13.93 m.)

11.45—Farm Markets.
12.00—Musical Clock.
12.15—Trail Blazer,
12.30—Musical Clock,
13.15—News; Musical Clock,
13.45—Jack and Loretto Clemens.
(19.72 m.)

14.00—Breakfast Club; News.
15.00—Sweethearts of the Air.
15.15—Viennese Ensemble.
15.30—The Child Grows Up.
15.45—Swing Serenade.
16.00—Vaughn de Leath.
16.15—Radio City Four.
16.30—Our Barn.
17.00—News.
17.15—Carol Weymann.
17.30—Farm and Home.
18.30—Hotel Lexington Orchestra.
19.00—Jean Ellington (Songs).
19.15—Kidoodlers.
19.30—Bill Krenz's Orchestra.
20.00—Baseball Game—Boston v.
Pittsburgh.
22.00—News Reeler.
22.15—Trio Time.
22.30—Paul Sabin's Orchestra.
22.45—Rakov's Orchestra.
22.45—Rakov's Orchestra.
(25.26 m.)
00.00—Message of Israel.
00.30—Uncle Jim's Question Bee.
01.00—Design for Music.
01.30—Nano Rodrigo's Orchestra.
(48.33 m.)
04.00—News.
94.15—Music You Want.
05.00-06.00—Orchestras. **PITTSBURGH**

PODEBRADY

PODEBRADY
For Europe.
(25.34 m.; 25.51 m.)
19.55-22.30—News; Dance Music;
Revue; Orchestra; Carnaval
(Schumann); Light
Prague Teachers' Choir; at 20.40
—News (Ger.); and at 22.00—
News (Fr.).
22.30-22.40—News (Eng.).

(25.4 m.)
11.00—News; Opera Music.
12.00-13.20—News (Eng., Fr.);
Songs; News (Jap., It.).
13.30-14.45—Talk; Opera Music;
Talk; News (Hindu, Eng.).
17.15—Sports; Trio; News.
18.10—News, Music, Talk (Arabic).
19.01—Talk (Esp.).
19.19—News (Eng., It., Serb.).
20.15—News and Talk (Fr.).
20.36—News and Mail (Ger.).

21.00—From Turin (No. 1). In the intervals, Talks (Ger., Fr., Eng.).
23.30—News (Sp., Greek).
00.00—For Latin America: News; Opera; Talk; News (Sp., Port.).
01.30-03.00—For U.S.A.: News (Eng.); Chamber Music; Music Talk; News.

SCHENECTADY

(13.95 m.)

13.00—Children's Stories; Variety.

14.40—News; Trio; Variety.

15.30—Music International.

16.00—Forum; Variety.

16.45-17.00—Serving the Consumer.

(19.57 m.)

17.15—Carol Weymann (Soprano).

17.30—Farm Programme; Music.

18.30—Your Host is Buffalo.

19.00—Music; Campus Capers.

20.00—Melodies; Swingology.

(19.57 m.; 31.48 m.)

21.00—For Stamp Collectors.

21.15—Men of the West.

21.30—Top Hatters.

22.00-22.30—Orchestra.

23.00—El Chico.

23.25—News; Sports.

23.45—Religion in the News.

(31.48 m.)

00.00-05.00—For Latin America.

00.00—Kaltenmayer's Kindergarten.

00.30—Stocks; Sports; Baritone.

01.00—Madriguera's Orchestra.

02.00—NBC Symphony.

03.30—Rhythm; Variety.

04.35-05.00—Lou Breeze's Orchestra.

(31.4 m.) 04.35-05.00—Lou Breeze's Orchestra.
(31.4 m.)
00.15-04.00—For Latin America.
00.15-04.00—For Latin America.
00.30—Stocks; Sports; Serenade.
01.30—There was a time when.
01.45—Harmony Hall.
02.00—Musical Clock.
03.00—Design for Music.
03.00—Design for Music.
03.30-04.00—Dance Music.

TOKIO
(19.79 m.; 25.42 m.)
For Europe.
20.30—News and Talk (Eng.);
Variety.
21.05—News (Ger.); Folk-Songs.
21.35-22.00—News (Fr., Jap.).

VATICAN CITY

(19.84 m.) 16.30-16.45—Church Notes (Polyglot). (50.26 ni.) 20.00-20.15—Church Notes (Polyglot).

WARSAW

WARSAW
(22 m.; 26.01 m.)
00.00-News (Pol., Eng.); Songs.
00.50-Talk (Eng.): Polish Musicians in America.
01.00-Polish Pfte. Music.
01.30-Polish Sea Shanties.
02.00-03.00-Music; Notes; Recitations

WAYNE
(16.89 m.)
13.00—Poetic Strings; Music.
14.15—Richard Maxwell (Sacred 14.15—Richard Maxwell (Sacred Songs).
14.30—Fiddler's Fancy—Music,
14.55—News.
15.00—Lew White (Organ).
15.30—The Jewel Cowboys (Songs).
16.00—Orientale—Music,
16.15—Melody Ramblings,
16.30—Junior Musical Comedy.
17.00—Columbia Concert Hall—String Quartet.
17.45-18.00—Dance Music.
(19.65 m.)
19.30—Melodies.
20.00 — Merrymakers — Music;
Songs.

Songs.
21.00—Brooklyn Handicap from the

Songs.
21.00—Brooklyn Handicap from the Aqueduct Race Track.
21.30—The Dancepators.
21.45—The Four Clubmen.
22.00—Columbia Concert Orchestra. Conductor: Leon Goldman.
22.30-23.00—Swing Session.
(23.36 m.)
23.30—Artie Shaw Orchestra.
00.00—Syncopation Piece; Music.
00.45—News (Sp.).
01.00—Swing Session; Music.
02.00—Professor Quiz.
02.30—Rhythm Rendezvous.
03.00—Hit Parade.
03.45-04.00—Capitol Opinions.
(49.02 m.)
04.30-05.30—For S. America.

ZEESEN
(19.85 m.; 25.49 m.; 49.83 m.)
16.40—Call (Ger., Eng.); Music.
18.45—News; Variety.
20.00—News (Eng.); Topical.
20.30—Dance Music.
22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Variety.
23.45—News; Variety; Talk.
01.30—Transylvanian Music.
02.00—Recond

What Would You

	SUNDAY, June 19	MONDAY, June 20	TUESDAY, June 21				
Symphony Concerts Operas	 2.40 Hilversum 2: From Scheveningen. 6.0 Deutschlandsender: "Lohengrin" (from Vienna Opera). 6.0 National: The Seasons (Haydn). 8.0 Brussels 2: Flemish music. 8.0 Munich: From Russian operas. 8.0 Vienna: German opera music. 8.30 Radio-Paris: Mozart, Albeniz. 9.0 Rome group: "The Barber of Seville." 9.35 National: "Martha" (Flotow). 	8.0 Berlin: "A Masked Ball" (rec.). 8.0 Radio-Paris: "Samson and Delilah" (Saint-Saëns). 8.30 Lille, etc.: Russian music. 9.15 Prague, Paris (PTT): Baroque period music. 9.30 Rome group: From the Basilica di Massenzio. 9.35 National: Leslie Heward. 9.50 Budapest: Jerger, Bayer.	 6.0 Regional: "Martha" (Flotow). 8.0 Brussels 1: Wagner, French prog. (9.15). 8.0 Vienna: Orchestra, violin. 8.10 Oslo: Beethoven No. 2. 8.15 Rennes, Nice: Chabrier operetta and "La Bohème." 8.30 Budapest: Rimsky-Korsakov. 8.30 Eiffel Tower: Orchestra, pfte. 8.30 Strasbourg: "Faust" (Berlioz). 9.0 Turin group: "The Barber of Seville." 				
Chamber Music Recitals	3.20 Kalundborg: Choirs (folk tunes). 3.30 Leipzig: Quintet (Kleemann). 5.25 Deutschlandsender: Song cycle. 6.30 Breslau: Two pianofortes. 7.10 Vienna: 'Cello, vln., pfte. 8.30 Oslo: Community Singing. 9.10 Hilversum 2: Tino Rossi (tenor). 9.15 Oslo: Song (Schumann, Schubert). 10.15 Kalundborg: Serenades. 10.30 Stockholm: Pianoforte, song.	1.55 Hilversum 1: Pianoforte. 2.40 Kalundborg: Vocal duets. 4.0 Paris (PTT): Organ. 7.10 Königsberg: Pfte., baritone. 7.10 Vienna: Quintet (Schubert). 8.5 Prague: Vln., pfte. sonata. 8.15 Paris (PTT): Quartet, song. 8.45 Stockholm: Münz (pfte.). 9.15 Deutschlandsender: Grieg, Wolf. 9.30 Kalundborg: Vln., pfte. Sonata (Beethoven). 9.45 Hilversum 1: Trio (Dvořák). 10.20 Turin group: Pianoforte.	5.0 Radio-Paris: Nadia Boulanger, choir, etc. 6.30 Paris (PTT): Soëtens (violin). 7.15 Oslo: Brahms's Zigeunerlieder. 8.0 Kalundborg: Two violoncellos. 8.15 Radio-Paris: Rameau, Pierné. 9.50 Beromünster: Max Reger prog. 10.0 Warsaw: Ada Sari (soprano). 10.15 Stockholm: Church organ. 10.30 Kalundborg: Trios. 10.30 National: Griller String Quartet. 10.35 Prague: Suk pfte. music.				
Plays and Feature Programmes	4.30 Radio-Paris: "Les Compatriotes" (Monnier). 6.40 Regional: "Dr. Faustus." 8.30 Paris (PTT): "Le tragique mystère de Verdun." 9.0 Beromünster: "Spiel im Schloss" (Molnar).	 8.0 Hamburg: "Afrikanische Hochzeit." 8.30 Naples group: "Felicita Colombo" (Adami). 8:30 Strasbourg, etc.: "Les Femmes savantes" (Molière). 11.15 Paris (PTT): Esperanto plays. 	8.0 Berlin: "Zille Martha." 8.40 Munich: "Faustina Hasse." 8.45 Radio-Paris: "Le Corsaire." 9.10 Rome group: "La figlia di Jorio." 10.35 Breslau: "Hill Fires," Summer Solstice play.				
Light Orchestral Bands Operettas	12.0 Kalundborg: Popular orch. 2.10 Radio-Paris: Children's operetta. 4.0 Saarbrücken, etc.: Pop. prog. 4.15 Kalundborg: Open-air concert. 6.0 Warsaw: "The Land of Smiles." 7.30 Budapest: Orchestra. 7.50 Hilversum 2: Kovacs Lajos. 8.0 Berlin: Tresi Rudolph (soprano) and orchestra. 8.5 Beromünster: Folk music—choirs. 8.10 Brno, Prague: Folk music. 8.10 Hilversum 1: "Melody and Rhythm." 8.15 Kalundborg: Operetta music. 8.30 Lille: Orchestra, baritone. 9.10 Hilversum 1: Military Band. 10.10 Brussels 1: Restaurant orch. 10.15 Bucharest: Serenade. 10.30-3.0 a.m. German stations: Serenade.	12.0 Kalundborg: Louis Preil's Ensemble. 12.10 Hilversum 1: Light music. 4.0 Frankfurt, etc.: Pop. orchestral. 4.0 Warsaw: Optta. exc., waltzes. 5.0 Brussels 1: Radio Orchestra. 5.0 Radio-Paris: Popular orchestral. 7.10 Breslau: "Princess Nefertiti." 7.30 Radio Eireann: Orchestra, soprano. 7.30 Stockholm: Light orchestral. 7.55 Hilversum 1: Military Band. 8.0 Brussels 1: English music. 8.0 Brussels 2: Light music, dances. 8.0 Kalundborg: Danish music. 8.30 Lyons (PTT): "Les Saltimbanques" (Ganne). 9.0 Cologne: Contemporary music. 9.30 Swiss stations: For Swiss abroad. 10.15 Kalundborg: Popular orchestral. 10.15 Oslo: Balalaika orchestra. 10.30-3.0 a.m. German stations: Serenade.	12.0 Kalundborg: Restaurant orch. 2.55 Hilversum 1: Russian orch. 7.15 Cologne: Italian opera music. 7.30 Stockholm: Swedish orch., etc. 7.55 Hilversum 1: KRO Symphony Orchestra. 8.0 National: "The Silver Spoon." 8.0 Sottens: Orchestra, violin. 8.30 Paris (PTT), etc., Sottens: "Ciboulette" (Hahn). 8.55 Beromünster: Scandinavian music. 9.0 Kalundborg: Contemporary Danish. 9.5 Prague: Czech music. 10.0 Rome group: Old and new dances. 10.15 Oslo: Bergen Radio Orchestra. 10.30 Hamburg, etc.: Light music, dances. 11.10 Hilversum 2: Cigány Band. 12.0-3.0 a.m. German stations: Serenade.				
Talks (including News in English) Commentaries	1.20 Stockholm: Denmark v. Sweden (football). 5.0 Paris (PTT): Final Round International Football Cup. 7.19 Rome 2: News in English. 10.0 Moscow: English programme.	 5.0 National: All-England Lawn Tennis. 7.10 Lille: Talk in English. 10.30 Sottens: International Labour Bureau Report. 11.0 Budapest: News in English. 	4.0 Regional: International Horse Show. 5.0 National: Lawn Tennis Championships. 7.19 Rome 2: News in English. 11.0 Prague: News in English.				
Variety Cabaret	8.0 Cologne: Variety. 8.0 Stuttgart, Frankfurt: Variety. 8.30 Eiffel Tower: Variety. 10.0 Poste Parisien: Cabaret.	7.0 National: "The Bungalow Club." 8.20 Regional: "Radiolympus." 9.10 Turin group: Revue. 10.30 Poste Parisien: Cabaret.	8.10 Hilversum 2: Variety: "The Tuesday Night Train." 9.0 Stockholm: Cabaret. 9.20 Regional: Variety. 10.30 Poste Parisien: Cabaret.				
Dance Music	6.40 Hilversum 2; 10.0, Budapest; 10.15, Oslo, Warsaw; 10.30, Sottens; 11.0, Radio-Paris, Strasbourg; 11.15, Kalundborg, Rome, Turin groups.	7.35 Budapest; 10.25, Regional; 11.0, National; 11.15, Kalundborg, Turin group; 11.25, Budapest.	6.40 Hilversum 2; 8.30, Cologne, Deutschlandsender; 9.0, Stuttgart; 9.45, Budapest; 10.20, Hilversum 1; 10.25, Regional; 10.30, Sottens; 11.10, Budapest, Kalundborg; 11.15, National, Rome group.				

_18

Like To Hear?

WEDNESDAY, June 22	THURSDAY, June 23	FRIDAY, June 24	SATURDAY, June 25
 6.40 National, 9.45 Kalundborg (Act 2): "Don Giovanni" from Glyndebourne. 8.0 Brussels 1: Liége composers. 8.0 Frankfurt: French and Belgian music. 8.30 Berlin, Paris (PTT): Graener, Strauss, etc. 8.30 Lille: Mozart, Pierné, etc. 9.10 Hilversum 2: Mahler No. 4. 10.5 Warsaw: Opera music; Palester, Saint-Saëns. 	 7.15 Munich: "Die Meistersinger." 7.25 Vienna: "I Pagliacci." 8.15 Cologne: University Jubilee concert. 8.30 Radio-Paris: Rivier, Mussorgsky, Fauré, etc. 9.0 Brussels 2: Orchestra, baritone. Rome group: "La via della finestra" (Zandonai). 9.10 Hilversum 2: Italian opera music. 10.0 Sottens: Beethoven, Brahms. 	5.5 Stockholm: Mendelssohn No. 4. 8.0 Frankfurt: Pfitzner programme. 8.30 Berlin: Brahms No. 1, etc. 9.0 Prague: Phil. Orch., choir, etc. 9.10 Hamburg: "The Flying Dutchman" (excerpts). 9.30 Turin group: From the Basilica di Massenzio. 10.0 Warsaw: French music, etc. 11.0 Radio-Paris, Strasbourg: Symphony (Dittersdorf) etc.	 4.30 Hilversum 2: Orch., soprano, viola. 8.30 Eiffel Tower, etc.: "Carmen" (Bizet) from the Opéra-Comique. 8.45 Brussels 1: Ysaye, Dubois, etc. Turin group: "La via della finestra."
1.40 Hilversum 1: Soprano songs. 5.40 Hilversum 2: Organ, tenor. 6.15 Königsberg: Choir. 6.20 Prague: Folk songs. 6.30 Paris (PTT): 'Cello, pfte., sonatas. 6.55 Warsaw: Violin. 7.0 Brussels 2: Flemish songs. Hilversum 1: Sacred organ music. 8.0 Kalundborg: Two pianofortes. 8.15 Bucharest: Violin. 10.10 Rome group: Pianoforte.	6.10 Deutschlandsender: 'Cello, pfte. 6.20 Leipzig: Beethoven pfte. music. 6.40 Hilversum 2: Quartet. 7.3 Brussels 2: Organ. 7.50 Hilversum 2: Choir, soprano, organ. 8.0 Eiffel Tower: Song, pfte. 9.5 Oslo: Norwegian music. 9.10 Kalundborg: Danish songs. 9.20 Budapest: Vln., pfte. sonatas. 9.30 Prague: Two pianofortes. 10.0 Warsaw: Trout Quintet (Schubert), Quintet (Hummel).	3.55 Hilversum 1: Chamber orch. 5.20 Prague: The Ondřiček Quartet. 6.5 Königsberg: Organ. 6.30 Cologne: Pianoforte (Schubert). 6.30 Paris (PTT): The Danish Quartet. 7.30 Oslo: Accordion. 7.40 Hilversum 2: Song, pfte. 8.0 Eiffel Tower: Sonata, quartet, 9.10 Hilversum 2: Organ, pfte., etc. 9.15 Beromünster: Folk songs. 10.0 Strasbourg: Guitar. 10.30 Deutschlandsender: Quartet.	4.0 Brussels 2: Violin, 'cello. 4.30 Beromünster: Songs to the Lute. 5.30 Stockholm: Pianoforte. 6.15 Brussels 2: Song. 6.30 Stockholm: Accordions. 7.0 Budapest: Hungarian songs. 7.0 Warsaw: Mme. Adamska ('cello). 8.0 Kalundborg: Vln. duet (Haydn). 8.10 Paris (PTT): Vocal duets.
 7.55 Beromünster: Lope da Vega comedy. 8.20 Stuttgart: "Botschaft des Herzens." 8.30 Eiffel Tower, etc.: "Le beau métier" (Clerc). 9.0 Regional: "Parnell" (Schauffler). 	5.0 Radio-Paris: "Le Menteur." 8.0 Deutschlandsender: "Augsburg." 8.30 Paris (PTT): "Le véritable Vercingetorix" (Carel). 9.30 Kalundborg: "Midsummer Eve." 11.0 Stockholm: "Midsummer Eve."	7.40 Warsaw: Midsummer's Day programme. 8.30 Radio-Paris: "Un cœur tout neuf" (Vialar). 8.30 Naples group: One-act comedy.	8.30 Radio-Paris: "Les Plaideurs" (Racine). 8.30 Strasbourg: "The Midnight Sun." 9.0 Rome group: "Biraghin." 11.0 Paris (PTT): "Les Amants de Sazy."
12.0 Kalundborg: Louis Preil's Ensemble. 12.10 Hilversum 1: Light orchestral. 12.15 Radio-Paris: Garde Républicaine Band. 5.0 Brussels 2: Salon orchestra. 5.5 Oslo: Bergen Radio Orchestra. 6.0 Berlin: Hans Bund Band. 7.30 Warsaw: Waltzes. 7.45 Stockholm: Naval Band. 7.55 Hilversum 2: VARA Orch. 8.0 Brussels 2: Studio operetta. 8.0 Prague: Old-Prague operetta. 8.0 Vienna, etc.: Mandolines, tenor. 8.25 Oslo: Conductor, Hugo Kramm. 8.30 Cologne: Rhapsodies, dances. 8.30 Rennes: Exotic music, etc. 9.30 Strasbourg: "Rose et Colas." 9.55 Budapest: Popular orchestral. 10.10 Turin group: Operetta music. 10.30 Breslau, etc.: "Melody and Rhythm." 12.0 Stuttgart, Frankfurt: Overtures, ballet music, etc.	12.0 Kalundborg: Louis Preil's Ensemble. 12.20 Radio-Paris: Cantrelle Orch. 12.50 Hilversum 1: Light orchestral. 4.0 Stuttgart: From Baden-Baden. 5.5 Oslo: Stavanger Orchestra. 5.10 Hilversum 2: Kovacs Lajos. 6.0 Berlin: Hans Bund Band. 6.20 Prague: Salon orchestra. 7.5 Radio Eireann: Orchestra, songs. 7.10 Cologne: Light opera music. 8.0 Brüssels 1: Light orchestral. 8.10 Frankfurt, etc.: Operetta music. 8.20 Kalundborg: Danish and Swedish programme. 8.30 Eiffel Tower: "Beau Brummel" (Hahn). 9.45 Beromünster: New German music. 9.45 Bucharest: Restaurant orch. 10.30 Stuttgart, etc.: Folk and light music. 10.50 Hilversum 2: Gipsy music.	12.0 Kalundborg: Restaurant orch. 2.10 Oslo: Bergen Radio Orchestra. 2.30 Kalundborg: Louis Preil's Ensemble. 4.55 Hilversum 1: KRO Orchestra. 5.0 Brussels 1: Light orch., songs. 6.20 Prague: Band concert. 7.10 Munich: Operetta and film music. 7.30 Prague: Operetta selections, etc. 8.0 Brussels 1: Military Band. 8.0 Deutschlandsender: Popular prog. 8.30 Paris (PTT): Orchestra, pfte. 8.30 Stockholm: Studio operetta. 8.30 Strasbourg: Alsatian evening. 9.0 Rome group: Midsummer's Day Festival. 10.10 Kalundborg: Opera and Operetta programme, etc. 10.30 Leipzig, etc.: Light music. 11.10 Budapest: Cigány Band. 12.0 - 3.0 a.m., German stations: Serenade.	12.0 Kalundborg: Louis Preil's Ensemble. 12.15 Radio-Paris: Popular orchestral. 4.0 Cologne, etc.: Popular tunes. 4.25 Hilversum 1: KRO Orchestra. 7.30 Stockholm: Marches, waltzes. 7.35 Bratislava, Prague: "A Summer Night in Bratislava." 7.55 Oslo: Popular orchestral. 8.0 Brussels 2: Radio Orchestra. 8.0 Hilversum 2: Operetta music. 8.0 Hilversum 2: Operetta music. 8.10 Hamburg: Operetta prog. 8.15 Cologne: "The Merry Widow." 8.15 Hilversum 1: Variety concert. 8.30 Paris (PTT): Orchestra, songs. 9.10 Warsaw: Light orchestral. 10.5 Radio-Paris: Orchestra, songs. 10.30 Berlin, etc.: Light music and dances. 10.40 Hilversum 2: Accordions. 10.45 Budapest: Popular orchestral. 11.0 Brussels 2: Restaurant orch.
 5.0 National: Lawn Tennis Championships. 6.32 Radio-Paris: "French Opera from 1900 to to-day." 7.10 Lille: Talk in English. 11.0 Budapest: News in English. 	2.45 (a.m.) National: Joe Louis v. Max Schmeling. 4.0 Regional: International Horse Show. 5.0 National: Lawn Tennis. 11.0 Prague: News in English.	At intervals Regional: Test Match. 5.0 National: Lawn Tennis. 8.0 Paris (PTT): M. Calvocoressi: "La musique russe en France." 10.30 Prague: Sokol Exercises.	At intervals National: Test Match. 3.0 Prague: From the Sokol Stadium. 3.45 National: Polo — Champion Cup. 7.10 Lille: Talk in English.
9.0 Radio-Paris: Variety. 9.10 Poste Parisien: Max Regnier.	8.0 Lille: Variety. 8.15 Poste Parisien: Music-Hall. 8.15 Stockholm: Midsummer Cabaret. 8.40 Regional: "Follies of 1938."	2.40 Hilversum 2: Variety. 7.55 Hilversum 1: Musical variety. 8.0 National: "The Old Music Halls." 8.50 Sottens: Cabaret.	8.0 Deutschlandsender: Musical variety. 8.0 National: Palace of Varieties. 8.0 Sottens: Variety. 10.30 Kalundborg: Cabaret.
10.10 Brussels 1; 10.25, Regional; 10.30, Sottens; 10.45, Hilversum 2; 11.0, National; 11.10, Budapest; 11.15, Rome, Turin groups; 11.20, Kalundborg.	8.20 Vienna; 10.5, Stockholm; 10.10, Brussels 1; 10.25, Regional; 10.55, National; 11.10, Budapest; 11.15, Oslo, Rome, Turin groups.	5.0 Warsaw; 6.0, Hilversum 1; 9.40, Hilversum 2; 10.15, Budapest; 10.25, Brussels 1, Regional; 10.30, Sottens, 10.40, National; 11.10, Kalundborg; 11.15, Rome group.	8.15 Bucharest; 8.35, Radio Eireann; 9.0, Leipzig: Radio Ball; 10.10, Brussels 1; 10.15, Oslo, Stockholm; 10.30, Brno, Prague, Regional, Sottens; 11.0, Radio-Paris, Strasbourg; 11.15, Kalundborg, National.

Long and Medium Wave Programmes

WORLD-RADIO

SUNDAY JUNE 19

National

Time Signals: Big Ben, 12.30, 10.45 p.m. Greenwich, 10.30 a.m., 4.0, 9.0 p.m. D = a.m., 4.0 Droitwich

9.30-10.5 a.m. (D)—Service (R.C.). 10.30 (D)—Weather Forecast. 10.45 (D)—Eugene Pini's Tango

Orchestra.

11.15 (D)—London Palladium Or-

chestra.

12.15 p.m. (D)—Florence Marks (Diseuse).

12.30 (D)—Ghost Spelling: Wives v. Husbands.

1.15 (D)—Jan Berenska's Orchestra.

2.0 (D)—In Your Garden: C. H. Middleton and F. H. Grisewood,

2.20 (D) — Medvedeff's Balalaika Orchestra. 2.45 (D)—Records.

3.15 (D)—BBC Military Band: Gladys Palmer (Contraito).

4.9—"The World Congress of Faiths:" Sir Francis Younghusband.

Faiths: 'Sir Francis Young-husband.

20—Alfredo Campoli's Salon Or-

chestra.

O-" Great Books of Christendom: " The Rev. C. H. Dodd.
20 — Ruth Naylor (Soprano);
Rudolph Dolmetsch (Harpsi-

Rudolph Dolmetsch (Harpsichord).

5.45 — The Fortnight's
Andrew Rice.
6.0 — Summer, from
Sensons (Haydn):
Suddaby (Soprano);
Nash (Tenor); Keith
(Bass); BBC Chorus
chestra, Conductor, Sir Adrian
Boult.

6.40—Reginald Foort (BBC Theatre
Organ).

6.40—Reginald Foort (BBC Theatre Organ).
7.15—Mantovani's Tipica Orchestra.
7.55—Bible Sunday Service.
8.45—Appeal on behalf of the British Empire Leprosy Relief Association by Christopher Stone, D.S.O., M.C. 8.50—The News.
9.5—Recollections of Lord's Cricket Granufe

Ground.

9.35—"Martha," an opera by Friedrich von Flotow, with Lorely Dyer, Freda Townson, Frank Titterton, Stuart Robertson, Dick Francis.

10.35—Epilogue.

London Regional

Time Signals: Big Ben, 12 10.45 p.m. Greenwich, 4.0,

9.30 a.m.—National.
4.0 p.m.—Philip Whiteway Ensemble.
4.30—"The Open Bible," by Alec

Macdonald.

D—Horsham Borough Band:
Francis Russell (Tenor).

D—Walford Hyden's Magyar Or-

6.0—Walford Hyden's Magyar Orchestra.

'Dr. Faustus," a tragical
history of the Renaissance by
Christopher Marlowe.

7.55—Service (Methodist).

8.45—National.
9.5—BBC Midland Orchestra, conducted by Eric Warr: Ballet
music, Prometheus (Beethoven).

9.50—"The Lunch and the
Launch," short story by John
Gloag.

Launch," short story by John Gloag. 10.5—Charles Ernesco's Quintet, with Anne Ziegler. 10.35—Epilogue.

Midland

4.0 p.m.—Nottinghamshire British Legion Annual Rally. 5.0—Regional. 7.55—Sunday School Anniversary Service (Methodist) from

45—National.
5.—Regional.
50—New Coventry Hippodrome
Orchestra, 10.35—Epilogue

9.30 a.m.—National. 4.0 p.m.—Regional. 5.0—Brighouse and Rastrick Band Harold Bradbury (Tenor). Harold Bradbury (Tenor).
6.0—Regional.
6.40—"Not very long ago;"
J. L. Hammond.
6.55—"My Week-end out of Doors:"William Aspden.
7.10—National Rally of Choirs,

Skegness.
7.55—Service (Presbyterian).

8.45—National, 9.5—BBC Northern Orchestra Harry Mortimer (Trumpet). 9.50-10.35—Regional.

4.0 p.m.—Regional. 8.0—Service (C.E.) from the studio. 8.45—National. 9.5-10.38—Regional.

Welsh
9.30 a.m.—National.
4.0 p.m.—J. H. Johns (Baritone);
Frederic Clements (Clarinet).
4.40—Y Beible Yng Nghymru:
T. H. Parry-Williams.
5.0—Regional.
6.0—Garfield Phillips Quintet.
6.30—Records of Chopin's Pfte.
Solos, 6.40—Regional.
7.55—Service from Holy Trinity
Church, Aberystwyth.
8.45—National.
9.5—"Y Ficer: "Welsh play by
Rhys Dafys-Williams.
10.5-10.35—Regional.

N. Ireland
9.30 a.m.—National.
4.0 p.m.—Regional.
6.40—Irish Poetry reading by
Shelah Richards.
6.55—Service (Methodist) from
Carlisle Memorial Church,
7.55—Opening 6

Belfast.
7.55—Opening Service of the Port-stewart Convention.
8.45—National.
9.5—BBC N. Ireland Orchestra.
10.5-10.35—Regional.

Scottish
9.30 a.m.—National.
2.0 p.m.—"At the Exhibition:"
The Services Pavilion and the Physical Fitness Pavilion.
2.20—National.
4.0—Scots Songs: Margaret Allan (Soprano); Philip Malcolm (Baritone), 4.30—Regional.
7.55—Service (C. of Scotland) from Edinburgh, 8.45—National.
9.5-10.35—Regional.

Hours of Transmission in British Summer Time.

RERLIN

BERLIN

841 kc/s (356.7 m.); 100 kW.
6.0 a.m.—Call; Weather; Gym.
6.30—Hamburg Harbour Concert.
8.0—Gym; Records.
8.55—Chimes and Service from
Potsdam Garrison Church.
9.30—For Hitler Youth.
10.0—Weather.
10.5—Light Music by the Krepela
Sextet and the Küster-Kiermeier
Pite. Duo.
11.20 — Records: The Seasons
(Glazunov). Conductor: The
Composer.

Pfte. Duo.

11.20 — Records: The Seasons (Glazunov). Conductor: The Composer.

12.0 noon—Light Music. Airmen's Band. Conductor: Böhm. Bund Band. Heinz Klink (Saxophone).

2.0 p.m.—Greetings.

2.5—Classical Records. Academic Festival Overture (Brahms). Conductor: Fiedler. Songs (Brahms) by Gerhard Hüsch: (a) Feldeinsamkeit, (b) Wie bist du, mein Königin. Excerpts from the Ballet Suite (Reger). Conductor: Zaun. Sigfrid Grundeis (Pfte.): (a) Leggierezza (Liszt), (b) Hungarian Rhapsody (Liszt). Songs (Wagner) by Maria Müller: (a) Im Treibhaus, (b). Träume. Romeo and Juliet (Tchaikovsky). Conductor: Mengelberg.

3.0—Reports: The Folk Festivals in Schneidemühl.

3.30—Records.

in Schneidemühl.
3,30—Records.
4,0—See Saarbrücken; at 5,0—Report from Mariendorf: The German Trotting Derby.
6,0—Willi Stanke Band. Gallop (Pauch). Kegeltanz (Strecke). Fantasia on "Gerde Marie" (Kowalski), Puppenparade (Czernik). Annabella (Vasata). Sonne die brauch' ich zum Leben (Kallies). Fräulein Mandarin (Pichelmann), Ländler and Tango (Stanke). Träume der Chrysantheme (Capelle). Aus aller Welt (Buder). Bergfrühling (Freundorfer).
7,0—News; Sports; Records.

7.0-News; Sports; Records.

SERVICES—SACRED MUSIC

A.M. 10.0 Kalundborg : Service. 11.0 Italian stations : Mass. 12.0 (noon) Radio-Paris: Address.

Hilversum 1 : Service. Stockholm : Evensong. Brussels 1 : Address. —Sottens : Church choir.

8.0—Station Orchestra, Conductor:
Kähler, Berlin Pfte, Trio, Tresi
Rudolph (Soprano).
10.0—News; Sports.
10.30 — Serenade. Kallies Band.
Olschewski Quintet.
1.0-3.0 a.m. (Monday) — Music
from Hamburg.

BEROMÜNSTER

BEROMUNSTER

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

9.30 a.m.-12.0 noon—From Basle.

9.30—Records: Violin Concerto in
D (Mozart), by Yehudi Menuhin,
10.0—Roman Catholic Service.
10.45—Concert by the "Schola Cantorum Basiliensis."

11.30—Maria Modena reads.
12.0 noon—Zürich Radio Orchestra. Conductor: Bernhard; at
12.30 p.m.—News.
1.50-3.0—From Basle.
1.50—Music.
2.0—Dialect Talk.
2.20—Folk Songs by the Oberwil
Male Voice Choir from the
"Sans - Souci." Conductor:
Hartmann.
3.0—Commentary by Werner Hausmann on the "Round the
Houses" Motor-Cycle Races at
St. Gall.
3.40-7.45—From Basle.

Houses" Motor-Cycle Races at St. Gail.
3.40-7.45—From Basle.
3.40-Reading and Records.
5.0—Talk: The Clarinet.
5.30—Records: Ticino Songs.
6.0—Talk.
6.20—Concert by the Stradella Club of Aarburg. Conductor:

Däster.

O — Countries and Peoples –

7.0 — Countries and Peoples — Readings. 7.35—Records. 7.45—News; Sports. 8.5 (from Berne)—Folk Songs—The 1938 Swiss Choral Festival at Berne.

1938 Swiss Choral Pestron.
Berne.
9,0-10,30—From Basle.
9,0—" Spiel im Schloss "—Comedy (Molnar).
10.15—Music.
10.25—Announcements.

BRATISLAVA

BRATISLAVA

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

Transmits at intervals from 6.30 a.m.
6.0 p.m.—Hungarian Transmission:
Talk: Trio for Violin, 'Cello,
and Pfte. (Albrecht).
6.45—Record.
6.50—News in German.
7.0-8.10—See Prague.
8.10—See Prague.
8.45—Talk from Kosice.
9.0-11.30 — Orchestra; at 10.20 —
News in Hungarian.

BRESLAU

950 kc/s (315.8 m.); 100 kW.
Relayed by Gleiwitz and Görlitz,
1,231 kc/s (243.7 m.).
5.0 a.m.—Records.
6.0—See Hamburg.
8.0—Motto; Records.
8.50—Time; News; Greetings.
9.0 (from Gleiwitz) — Roman Catholic Service.
9.30—Herbert Reichert (Harpsichord).
10.0—Emil Roosz Band.
11.0—Hitler Youth Choir.
11.55—Weather.
12.0 noon—See Berlin.
12.0 noon—See Berlin.
12.0 noon—See Berlin.
12.0 p.m.—Weather.
12.0 p.m.—Weather.
12.0 p.m.—Weather.
12.0 p.m.—Weather.
12.0 p.m.—Weather.
12.0 — "Superstitions" — Radio Scenes (Kuhlmann).
4.0—To be announced.
6.0 — "Happy Childhood"—Sequence (Sattler).
6.30—Luise Fietz and Willie Kopmann (Pftes.). Sonata in G (Bach) Variations on a Haydn Theme (Brahms).
7.0—News; Sports.
7.30—Wind Band Conductor: Humpert.
9.0 — Song of Love — Variety Concert. Fierke Quintet. Anita Spada (Entertainer). Wladimir Pogorelow (Balalaika), Schuricke

Trio, Horst Preusker (Compère). In the intervals, Records. 10.0—News; Sports. 10.30—See Deutschlandsender, 12.0 mt.-3.0 a.m. (Monday)—See Hamburg.

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.30 a.m. 10.0 a.m.—Opening of the Pro-vincial Exhibition at Velké-

vincial Exhibition at Velké-Mezirici.

10.30 a.m.-1.50 p.m.—See Prague.
1.50—For Farmers.
2.5-2.30—For German Farmers.
3.10—Folk Songs by a Girls' Choir.
3.30-5.35—See Prague.
5.35—German Transmission: Talk:
Mikulov Castle; For Farmers.
6.10—Orchestra from Moravská-Ostrava.

Mikulov Castle; For Farmers.
6.10 — Orchestra from MoravskáOstrava.
6.50—News in German.
7.0-8.10—See Prague.
8.10—Folk Music. Station Orchestra.
Conductor: Bakala. Brno Vocal
Quartet. Pek (Bagpipes).
8.45—Talk.
9.0-11.0—See Prague.

BRUSSELS (No. 1) 620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m. — Homing-Pigeon

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

5.0-5.10 a.m. — Homing-Pigeon Notes.
6.30-9.0—Records; Gym; News.
9.0—Records.
10.0—Alexys Orchestra from the Théâtre de l'Alhambra.
10.30—Debussy Recital by Mme Devos-Fischbach (Pfte.). Hommage à Rameau. Mouvement.
L'isle joyeuse.
10.45—Orchestra (contd.).
11.0—Humorous Programme.
11.14—Alexys Orchestra.
11.30 — Mme Maelfeyt-Rovies (Pierné and Satie Songs).
Suite, Shéhérazade (Pierné).
11.45—Alexys Orchestra.
12.0 noon—Sketches on Records:
(a) "Le meilleur moyen" (Pauley-Lindor), (b) "Hortense, couche-toi" (Courteline), (c) "Une réunion électorale" (Quinel-Pauley).
12.10 p.m.—Orchestra. Conductor: Souris, Selection from "Show Boat" (Kern). Hallelujah (Youmans).

Boat (Rein),
mans).

12.30—Weather; Shipping.
12.35 — Records: Cabaret and
Music-Hall Artists.
12.45—Records: Light Music.
1.0—News.
1.10 — Orchestra. Conductor:
"Mozart"
"The

Orchestra, Conductor:
Souris, Overture, "Mozart"
(Hahn). Selection, "The
Prophet" (Meyerbeer), Ballet
Music, "Les Fantoccini" (Le-

(Hann). Selection, Prophet " (Meyerbeer). Ballet Music, 'Les Fantoccini" (Lecocq).

1.35—Art Notes.
1.40—For Farmers.
2.0-2.15—Goblet (Accordion).
2.30—Records: Light Music.
3.0—Records: "I Pagliacci" (Leoncavallo).
4.0—Join '(Cello). Histoires (Ibert). Berceuse (Bazelaire).
Cache-cache (Bazelaire).
4.15—'Likéke'—One-Act Play in Dialect (Evrard).
4.45—Records: "Le Bal de Béatrice d'Este" (Hahn).
5.0—Records: Light Music.
5.20—Report: The Walloon Rally at Waterloo.
6.0—For Children.
7.0—Religious Address.
7.15—Record: Brigg Fair (Delius).
7.30—News.
8.0—Théodore Botrel Songs—M. and Mme Alberty with the Salon Orchestra. Conductor: Souris. Renée Claude (Songs). Ferari (Violin). Bemers (Saxophone). Petite suite médiévale (Tomasi). Songs: (a) Parle-moi en patois (de Buxeuil), (b) Dans ma petite maison (de Buxeuil), (c) J'aime (Régnier), (d) Larmes d'amour (Lenoir). Violin and Orchestra: Valse caprice (Saint-Saëns-Ysaye). Selection, "La vie parisienne" (Offenbach). Saxophone and Pfte.: Jugglery (Macker). Songs (Misraki, Soler, Emer). Six Ukrainian Pieces (Akimenko). March, "Carmen" (Bizet).

(Bizet).
10.0—News.
10.10—Omer Orchestra from the "Boeuf sur le Toit."
11.0-12.0 m't.—At the Casino — Records. Overture, "Phèdre" (Massenet). Ninon (Tosti). Violin Concerto in A minor (Dvořák) by Ychudi Menuhin. Le pas d'armes du Roi Jean (Saint-Saěns). Ballet, "Marouf" (Rabaud).

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m. — Records; Gym;

6.30-9.5 a.m. — Records; Gym; News. 9.5 — Records: "I Pagliacci" (Leoncavallo) (Scala Recordings). 10.16—Vaes (Cinema Organ). 11.0 — Wolfaert (Flute). Two Pieces (Pessard). Concertino in D (Chaminade). Humoresque (Sarly). Sicilienne (Bach). Selection, "L'Arlésienne" (Bizet). 11.58—Review. of Reviews, 12.0 noon—Records. 12.31 p.m.—Schnyders Orchestra. 1.0—News.

12.0 noon—Records.
12.31 p.m.—Schnyders Orchestra.
1.0—News.
1.10—Schnyders Orchestra.
1.30-2.0—Film Records.
2.15—Commentary on the Floreffe Cycling Championships.
2.30—Records : Suite (Fischer).
2.45—Military Band.
3.45—Records of Vladimir Rosing : Mussorgsky Songs.
4.30—Jos Gevers (Recitations).
4.45—Commentary on the Floreffe Cycling Championships.
5.0—Records.
5.15—Sports Results.
5.0—Records.
5.15—Sports Results.
5.30—Records. Second Symphony (Beethoven) by the Belgian National Orchestra. Conductor: Kleiber. Overture, "Faust" (Gounod). Conductor: Sir Thomas Beecham.
6.15—Flemish Music. Radio Orchestra. Conductor: Douliez.
Petit ballet (Candael). Valses viennoises (Gilson). Poème (D'Haeyer).
6.45—Roman Catholic Address.

chestra. Conductor: Douliez.
Petit ballet (Candael). Valses
viennoises (Gilson). Poème
(D'Haeyer).
6.45-Roman Catholic Address.
7.0-Light Music by the Radio
Orchestra. Conductor: Douliez.
7.30-Film and Book Reviews.
8.0-Music of Flemish Composers.
I.N.R. Symphony Orchestra.
Conductor: Franz André; I.N.R.
Mixed Choir, Conductor: Gras.
Declerck (Pfte.) and Van Schoeland (Songs). Symphonic Movement (Poot). Ballad (Van Durme).
Concerto for Pfte. and Five
Clarinets (de Brabander). Concerto (Maes).
8.45 — Report from a Homing
Pigeon Cote.
9.0-Music of Flemish Composers
(cond.). Le pays (Karel Albert).
Paraphrase on "Kol Nidrei"
(Sternefeld). Solo Voice, Choir
and Orchestra: Lofzang aan de
haven (Baeyens).
9.40 — Records: Quartet in F
(Haydn) by the Pro Arte Quartet,
10.0-News.

10.0—News, 10.10—Dance Records, 11.0-12.0 m't.—Rutten Orchestra from the Brasserie Torenkelder, Antwerp.

BUCHAREST

BUCHAREST

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

7.30-8.50 a.m.—News, Music, etc.
8.55—Religious Programme.
10.30—For Peasants.
11.20—Hints for Peasants.
11.40—Strajeri Choir.
12.15 p.m.—Time; News; Sports.
12.25—Predesco Orchestra.
1.15—Time; News.
6.0 — Time; Weather; Medical Talk.

6.0 — Time; Weather; Medical Talk, 6.17—Military Band, 6.58—Sports Results, 7.0—Radio Orchestra, Conductor; Rogalsky; Aida Helta (Songs), 8.0—News.

Rogalsky; Alba 8.0—News. 8.10—Orchestra, Songs (contd.). 8.30—A Play. 9.15—Records. 10.0—Sports Results. 10.18-12.0 m't.—Concert.

BUDAPEST
546 kc/s (549.5 m.); 120 kW.
9.30 a.m.—News.
10.0—Roman Catholic Service.
11.15—Protestant Service.
12.30 p.m.— Opera Orchestra.
Conductor: Rajter. Overture.
"The Italian Girl in Algiers" (Rossini), Symphonic Poem,
Phaëton (Saint-Saëns). Lyric
Suite (Antalffy-Zsiross), Oriental
Dance (Fuchs). Finlandia (Sibelius). Siegfried Idyll (Wagner). Waltz, "Der Rosenkavalier" (Strausss).

ner). Waltz, "Der l (Strauss). 2.0—Records. 3.0—For Farmers. 3.45— Orchestra. Conductor 1

3.45 — Orchestra. Conduct Bertha. 4.30—Dr. Cecil Bognár, 5.0—Imre Völgyi Čigány Band, 6.0—Talk.

6.30—Ilonka Szabó (Songs).
7.0—Dr. Sándor Eckhardt.
7.30—Budapest Concert Orchestra.
Conductor: Fridl. Children's
Overture (Quilter). Peer Gynt
Suite (Grieg). Sunset (Sámy).
Two Arabesques (Debussy). Fantasia on Two Russian Themes
(Glinka).
8.20—Comedy (Peterdy).
9.30—News.
10.0—Buttola Jazz Band from the
Piccadilly Restaurant.
11.0—Csorba Cigány Band from
the Café Szeiflert.
12.5 a.m. (Monday)—News.

COLOGNE

COLOGNE

658 kc/s (455.9 m.); 100 kW.
6.0 a.m.—See Hamburg.
8.0—Weather; Water Level; Talk.
8.15—Ernst Kaller (Organ) from Münster University.
9.0—For Hitler Youth.
9.30—Sunday Programme.
10.15—Records.
11.20—Heinrich Lersch Songs.
11.30—Bach Choir of Cologne.
Conductor: Schneider, Villanella alla Napolitana (Donati). Barcarolle (Gastoldi), Eia (Othmayr).
Einstmals das Kind Cupido klein (Friedrici). Songs (Brahms): (a)
Von edler Art, (b) Mit Lust tat ich ausreiten, (c) Bei nächtlicher Weil, (d) In stiller Nacht, (e)
Die Wollust in dem Maien, (f)
Ich fahr' dahin.
12.0 noon—See Leipzig; at 1.01.10 p.m.—News; Greetings.
2.0—Cologne Melodies.
3.0—Orchestra. Conductor:
Hagestedt. Station Sextet and Schrammel Ensemble. Solo Accordion Band. In the intervals,
Sports Reports.
7.0—News.

Gaden Dance Band on

7.10 — Gaden Dance Band on Records.
7.35—Sunday Events and Sports.
8.0—Variety Concert. Station Orchestra. Conductor: Breuer.
Hans Salcher, Antonie Pütz-Fricke, Karl Urbach, etc.
10.0—News.
10.30—See Deutschlandsender.
12.0 m't.-3.0 a.m. (Monday)—See Hamburg

Hamburg.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW. 6.0 a.m.—See Königsberg. 8.0—Weather, Records; Talk.

191 kc/s (1,571 m.); 60 kW.
6.0 a.m.—See Königsberg.
8.0—Weather Records; Talk.
9.0—Herbert Fröhlich Band, Rolf
Heide (Bass), Curt Hosemann
('Cello), Felix Schröder and
Herbert Jäger (Pftes.), Fritz
Kröger (Duralphone) and Elmer
Bantz (Compère).
10.0—Meditation.
10.30—Dante (Liszt) by Waldo
Favre Vocal Ensemble and the
Berlin Philharmonic, Conductor:
Andreae (Recorded).
11.15—Weather.
11.30—Erwin Schreck-Berger
(Cinema Organ) from the Neue
Philharmonie, Berlin.
12.0 noon—See Munich.
12.55 p.m.—Time; Greetings.
1.10—Music from Munich.
2.0—A Fairy Play.
2.30—Portuguese Folk Songs and
Dances (Recorded).
3.0—Records: Favourite Melodies.
4.0—See Königsberg.
5.25—"Verloren an ein Saitenspiel "—Sequence after Josef
Weinheber (Melichar). Carl
Schmidt-Walter (Songs). Ludwig
Andersen (Speaker).
6.0—" Lohengrin" (Wagner) from
Vienna: Berlin State Opera cast
visiting Vienna.
10.0—News; Sports.
10.20—Report: The Cycle Tour
of Germany—Tenth Lap, Frankfurt-Cologne.
10.30 p.m.-12.55 a.m. (Monday)—
Perpetuum möbile. Kaiser Dance
Band, Krepela Sextet, The
Metropole Singers and Lisel
Koch, Records of Erwin SchreckBerger (Wurlitzer Organ); at
10.45-11.0—Weather.
12.55 a.m.—Time.
1.6-2.0—Music from Frankfurt.

FRANKFURT

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—Roman Catholic Service from
St. Emmeran's Church, Mainz.

8.50—Records: Ballet Suites,
9.30—Choral Concert from stätten. Conductor: Geisler. stätten. Conductor 10.0-See Königsberg.

10.30—Records. Overture, "Genoveva" (Schumann) by the Stuttgart Station Orchestra. Conductor: Buschkötter. Variations on a Mozart Theme (Reger). Conductor: Böhm.

11.15 (from Coblenz)—Heinrich.

tor:

a Mozart Theme
ductor: Böhm.

1.15 (from Coblenz)—HeinrichLersch—Sequence (arr. Kremer).
Hitler Youth Choir, String Quartett, Walter Lorenz (Baritone),
Emma Sagebiel (Pfte.) and Peter
Kremer and Erhard Steinke
(Speakers).

12.0 noon—See Berlin; at 1.0-1.10
p.m.—Report: The Cycle Tour
of Germany.

Ausic.

of Germany.

2.0—Sketch for Children (Frey).

2.30—Records: Light Music.

3.15 (from Freiburg)—" In the Glottertal "—Folk Programme.

4. Orchestra from Wiesbaden.

Overture,

Glottertal "—Folk Programme.

O-Orchestra from Wiesbaden.
Conductor: Vogt. Overture,
"Preciosa" (Weber). Liebeslied
and Wanderlied (Kämpf).
Habanera and España from the
Rapsodie espagnole (Chabrier).
From the Fields and Groves of
Bohemia (Smetana). Excerpts,
"Der Trompeter von Säckingen"
(Nessler). Suite, Jeux d'enfants
(Bizet). Pesther-Walzer (Lanner).
Selection, "The 'Tsarevitch'"
(Lehár). Overture, "Der Opernball" (Heuberger); at 5.0-5.20.
Sports.

(Lehár). Overture, "Der Opernball" (Heuberger); at 5.0-5.20. Sports.

6.0—"From Debreczin to Budapest"—Hungarian Dance and Light Music. Station Orchestra. Conductor: Hauck. Erwin Hartung (Refrains).

7.0—Time; News.
7.10—Hungarian Music (contd.).

7.30—Sports.

7.50—Report: The Cycle Tour of Germany, Tenth Lap, Frankfurt—Cologne.

8.0—See Stuttgart.

10.0—Time; News; Sports.

10.25—Community Singing on the Römerberg (Recorded).

10.40—Programme from Deutschlandsender.

12.0 m²t.-3.0 a.m. (Monday)—Serenade (Recorded). Part I. Light and Dance Music. Station Orchestra. Conductor: Hauck. Elfriede Draeger (Soprano) and Ottokar Smrtscheck. Part II. Light Classical Music. Conductor: Cuje.

Light Classical Music. Conductor: Cuje.

HAMBURG

904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg and Stettin, 1,330 kc/s (225.6 m.).

6.0 a.m.—Harbour Concert.
8.0—News; Talk; Gym; Records.
9.0—For Hitler Youth.
9.30—Rading Quintet.
10.15—Protestant Service from the University Church, Kiel.
11.0—Topical.
11.15—Records: Pfte. Concerto in C (Beethoven) by Walter Gieseking and the Berlin Opera Orchestra. Conductor: Rosbaud.
11.45—Meditation.
12.0 noon (from Flensburg)—Orchestra from "Deutsches Haus." Conductor: Thon, Overture, "The Daughter of the Regiment" (Donizetti). Waltz, Nordscebilder (Joh. Strauss). Preludes, "Carmen" (Bizet). Selection, "Preciosa" (Weber). Ballet Suite, "Esmeralda" (Drigo). Orientalischer Zug (v. Blon). Overture, "Die Musikanten" (Flotow). Waltz, Lustige Brüder (Vollstedt). Song, "Boccaccio" (Suppé). Selection, "Coppelia" (Delibes). Suite (Play for Children (Krönke).
2.45— (from Flensburg)—Folk Music. Flensburg Chember Choir. Conductor: Gallert. Gertud Trenktrog (Pfte.).
3.30—"Autoreisen fein, aber nur—allein!" — Humorous Play (Weissbach). Music by Keiper.
4.0—See Saarbrücken.
6.0—To be announced; at 7.0-7.10—News.
7.30—Sports; Weather.
8.0—Waltz Time and March Time—Heinemann Band. Regimental Band. Conductor: Knoch.
10.0—News.
10.15 (from Kiel)—Report: Kiel Week.

Week.

10.30—See Deutschlandsender.

12.0 m't.-3.0 a.m. (Monday)—
Serenade, Part I. Popular Music.
Station Choir and Orchestra.
Conductors: Gregor and Richard Müller-Lampertz. The Berlin Pfte. Trio and Peter Igelhoft.
Part II. Light Music. Station Orchestra. Conductor Secker.
Jungherr Accordion Band. Willi Althoff (Mandoline, Guitar and Banjo). Wolfgang Hattenbach (Pfte.).

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. Also on Jaarsveld, 722 kc/s (415.4 m.); 17 kW. 10-9.10 a.m. — KRO Refigious kc/s (4 8.10-9.10

kc/s (415.4 m.); 17 kW.
8.10-9.10 a.m. — KRO Rehgious Programme.
9.10-11.55—NCRV Programme.
9.10-Records: Sacred Music.
9.30—Service from the Evangelical Church, Leeuwarden; Records of Sacred Music.
11.55—KRO Orchestra, Conductor: van 't Woud; Wesseling (Pfte.).
March (Meyerbeer). Two Pieces for Pfte, and Orchestra. Selection, "Fidelio" (Beethoven). Ave Maria (Gounod). Czardas (Grossmann). Sons of the Brave (Bidgood). Overture, "The Black Domino" (Auber). Rundgesänge (Hellmesberger). Serenade (Davidoff). Eine kleine Dorfgeschiete (Bund). March (Friedmann); at 12.40-1.0 p.m. — Literary Talk.
1.30—Talk; Letter-box; Records.
2.30—Records and Talk.
3.10—KRO Melodists. Conductor: Lustenhouwer.
4.10—For Hospitals; Records.

1.10—KRO Melodists. Conductor: Lustenhouwer.
1.10—For Hospitals; Records.
1.45-7.25—NCRV Programme.
1.45—Herzog (Organ). Prelude and Triple Fugue in E flat (Bach). Andante (Franck). Sonata on a Choral (Lange). Choral (Franck). Fantasia.
1.40—Service from the Juliana.

Fantasia.

5.40—Service from the Juliana Church, The Hague; Records of Sacred Music.

7.25 till Close—KRO Programme.

7.25—Sports Notes; Talk.

7.50—News; Records.

8.10—Melody and Rhythm—KRO Orchestra, Conductor: van 't Woud; KRO Melodists, Conductor: Lustenhouwer; Klein (Refrains).

9.10—Royal Palace

for: Lustemouwer; Klein (Refrains)

9.10—Royal Palace Guards Band.
Conductor: Capt, Walther Boer.
March (Grieg-Linden). Polonaise
(Liszt-Bouwman). March (Lauwerijns). Selection, "The Three
Bears" (Coates). The Stars and
Stripes (Sousa). Selection, "The
Daughter of the Regiment"
(Donizetti-Blumentritt).

10.10—News.

10.20—Choral Epilogue.

10.40-11.10—Esperanto Talk.

HILVERSUM (No. 2)
995 kc/s (301.5 m.); 10 kW
until 8.40 p.m.; 60 kW from

until 8.40 p.m.; 60 kW from 8.40 p.m.; 8.00 kW from 8.35-9.40 a.m.—VARA Programme. 8.35-Records. 8.40—Homing-Pigeon Notes. 8.45—Gardening Talk. 9.10—Records. 9.20—Talk by M. Pleysier. 9.39—Homing-Pigeon Notes. 9.40-11.40—VPRO Programme. 9.40—For Children. 10.10—Service from the Mennonite House, Elspeet. 11.30—Talk by Mile. Oosting. 11.40 a.m.-4,40 p.m.—AVRO Programme.

gramme. 11.40—Time; Motto; Top Naeff

gramme.

11.40—Time; Motto; Top Naeff (Songs).

11.45—Film Review.

12.10 p.m.—Aeolian Orchestra; Cobi van der Pas Middelraad (Songs).

12.55—Records.

1.10—Palla (Organ).

1.40—Weekly Book Talk.

2.10—Male Voice Choir.

2.40—Concert from the Kurhaus, Scheveningen. The Hague Orchestra. Conductor: Ignaz Neumark; Alannah Delias (Pfte.).

Overture. "The Hebrides" (Mendelssohn). Pfte. Concerto in G (Mozart). The Enchanted Lake (Lyadov). Sclection, "The Tales of Tsar Saltan" (Rimsky-Korsakov). Letzter Frühling (Grieg). Minuet, Dance of the Sylphs and Hungarian March (Berlioz). In the interval, Records.

4.10—Records; Sports.

(Berlioz). In the interval, Records.
4.10—Records; Sports.
4.40—7.40—VARA Programme.
4.40—Records.
5.40—Orchestra. Conductor: Silbermann.
6.10—Sports Review.
6.30—Report on the International Chess Tournament at Noordwijk; Records.
6.40—"Ramblers" Dance Band, "Esmeralda" Septet and Recitations.

SUNDAY (June 19)

10.30—Chess Notes. 10.40—News. 10.50-11.40 — AVRO Orchestra, Conductor: Treep.

KALUNDBORG

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

8.0 a.m.—Gym; Weather.

8.45 — French Talk: "L'échec de Gustave Weil.

9.0—German Talk: Benzin und Gummi aus Kohle.

9.15—English Anecdotes and Conversation.

9.30—Carillon and Fanfare from Grondahl Church Tower.

10.0 — Service from Grendahl Church.

11.28—Weather: News.

12.0 noon—Radio Orchestra, Conductor: Grondahl. Overture, "Le maçon" (Auber). Zorahayde (Svendsen). Die Schönbrunner (Lanner). Cradel Song (Gislason). Polonaise, "Struensee" (Meyerbeer). Molly on the Shore (Grainger). Vid Frösö kyrka (Peterson - Berger). Sommarsang (Peterson-Berger). March, "Der arme Jonathan" (Millöcker). Symphonic Rhapsody (Ludolf Nielsen). Prelude to Act II, "Dyveke" (Bartholdy). Exterpt, "Gaucho" (Reesen). Vinterdag (Glass). I Hønsegaarden (Glass). El Capitan (Sousa); at 12.50 p.m.—Reading (Fischer).

2.0—Danish Missionary Society's Golden Jubilee. from Aalborg.

3.20—Choral Festival from Fredericia. Address by Frans Hansen. Folk Song; Vort Modersmaal er deligt. Der er et yndigt Land (Nielsen). Der vokser Skov paa Heden (Ring). Faedrelandssang (Jacobsen). Spillemaendene (Jacobsen). Frydeligt with Jubelkor (Nielsen). Hvor klart dog Stjernen ses i Nat (Hamburger). Jeg ser de bøgelyse Oer (Aagaard). Folk Songs: (a) Vaegtervers, (b) Lad vaic højt vort Kongeflag. Danmark, i tusind Aar (Nielsen). Flaget (Rygaard). Gurre (Rung). March, Prince Frederick (Schmidt). Ten minutes interval. Cadets March (Sousa). Kaiserwalzer (Strauss). Overture, "Poet and Peasant" (Suppé). Selection, "Tales of Hoffmann" (Offenbach). Polka (Kling). Lerdagsvalsen (Johanson). March of the Tin Soldiers (Jessel).

5.50—Records: "The Dubarry" (Millöcker-Mackeben).

5.50—Records: "The Dubarry" (Millöcker-Mackeben).

Viennese and Copenhagen Children.
6.50—Weather; News.
7.30—Talk: Julius Lange.
8.0—"The Hansens"—Sketch (Locher).
8.15—Radio-Orchestra, Conductor: Tuxen. Overture, "A Night in Venice" (Strauss). Mein Lebenslauf ist Lieb' und Lust (Strauss).
Ballet, "La belle Hélène" (Offenbach). Waltz, "Die Kaiserin" (Fall). Spring Suite (Coates). Selection, "Tiptoes" (Gershwin).
9.15—"An Afternoon with Johan Herman Wessel"—Sequence.
9.45—Variety with the Golden Blonde.

9.45—Variety with the Golden Blonde.
10.0—News.
10.15—Serenade. Radio Orchestra.
Conductor: Tuxen. Movements from the Serenade in D (Mozart).
Overture, "Rosamunde" (Schubert). Allegro molto and Rondo from the Serenade in D (Brahms).
11.15 p.m.-12.30 a.m. (Monday)—Petersen Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
6.0 a.m.—Börschel Bånd, Peasant Band and Heinrich-Albert Choir.
8.0—"Was eine Bäuerin einst schrieb" — Sequence (Ruth Geede)

schneb"— Sequence (Ruth Geede).
8.30—Records.
9.10—Protestant Service.
10.0—For Hilter Youth.
10.30—For Young People.
10.40—Weather; Topical.
11.0—Demonstration in Connection with the East Prussian Party Congress.

1.0 p.m.—Station Orchestra. Conductor: Brückner. 2.0—Chess, 2.30—Variety.

ductor: Brückner.

2.0—Chess,

2.30—Variety.

3.15—Fairy Story.

3.45—Topical.

4.0—Light Music. Station Orchestra. Conductor: Wilcken. March,
Gross-Deutschland (Koch). FestOuvertüre (Hartung). Waltz, Von
Land zu Land (Löhr). Suite, Im
Varieté (Scheibe). Minuet
(Eilers). Sicilian Serenade (Winkler). Selection, "The Land of
Smiles" (Lehár). Diavoletta
(Lindemann). Dance Rhapsody
(Knümann). Waltz, Deutsche
Grüsse (Jos. Strauss). March,
Schützen des Friedens (Lutz). In
the intervals, Echoes of the
Sports Contests in connection
with the East Prussian Party

Sports Contests in connection with the East Prussian Party Congress.

6.0—Topical Report.

6.30—Comrade, where are you?—Programme for Ex-Servicemen.

7.10—Records: Marches.

7.45—Echoes of the East Prussian.

Party Congress.

8.0—Station Orchestra and Börschel Band.

10.0—News; Weather.

10.15—See Hamburg.

10.20—Echoes of the Sports Contests in Connection with the Party Congress.

10.40—Programme from Deutsch-landsender.

landsender.

12.0 m't.-3.0 a.m. (Monday)—See
Hamburg.

LEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s

Relayed by Dresden, 1,283 Re/s (233.5 m.).
6.0 a.m.—See Hamburg.
8.0—Protestant Service.
8.30—Austrian Music by Georg Winkler (Organ).
9.0—Literary and Musical Programmer

gramme.
9.45—Hitler Youth Band.
10.15—Records: Light and Dance

9.45—Hitler Youth Band.
10.15—Records: Light and Dance Music.
11.30—Reports: Students' Day in Central Germany.
12.0 noon (from Dresden)—Dresden Orchestra. Conductor: Merten. Hans Richter-Haaser (Pfte.). Carnival Overture (Dvořák). Pfte. and Orchestra: Spanish Rhapsody (Liszt - Busoni). Styrian Dances (Holenia). German Dances (Schubert-v. Webern). Overture, "The Thieving Magpie" (Rossini). Overture, "A Night in Venice" (Strauss). Pfte. Hungarian Dances (Ballet Music, "Ritter Pasman" (Strauss). Waltz, "Gipsy Love" (Lehár). Overture, "The Vintager's Bride" (Nedbal). Teufelstanz (Hellmesberger).
2.0 p.m.—Time: Weather.
2.5—Classical Records. Overture, "Euryanthe" (Weber), by the Berlin Opera Orchestra. Conductor: Max v. Schillings. Ecossaises (Beethoven), by Wilhelm Kempff (Pfte.). Erlkönig (Schubert), by Heinrich Schlusnus. Moment musical (Schubert) by Casals ("Cello). Scherzo from the Third Symphony in D minor (Bruckner), by the Vienna Symphony Orchestra. Conductor: Konrath. Hungarian Rhapsody No. 2 (Liszt), by Wilhelm Backhaus (Pfte.). Fourth Movement from the Fifth Symphony (Tchairmen, Prelude to Act III, "The Mastersingers" (Wagner), by Taina Lennitz: (a) Schmerzen, (b) Träume. Prelude to Act III, "The Mastersingers" (Wagner), by the Berlin Opera Orchestra. Aria, "The Mastersingers" (Wagner), by the Berlin Opera Orchestra. Conductor: Hilmar Weber.
3.0—Quintet in D minor (Kleemann), by the Leipzig String Quartet and Theodor Blumer (Pfte.).

4.0—See Saarbrucken.
5.30—Handball Match Report.
6.0—'t Lied über Deutschland''—
Sequence (Eva Kuhn and Brnst
Kochan), by a Hitler Youth
Ensemble.

Ensemble.
6.30—Football Match Report.
6.45 (approx.)—Report: The
International Tennis Tournament
at Leipzig.

-News 7.10 — Cabaret with Annemarie Hentzschel (Songs), Fred Dömpke (Bandonion), Wladimir Pogorelow

SUNDAY (June 19)

(Balalaika), Fritz Bendel (Xylo-phone), and Heinz Munkel

(Balalaika), Fritz Bendel (Xylophone), and Heinz Munkel (Pfte.).

8.0—Leipzig Kaleidoscope. Station Choir and Leipzig Symphony Orchestra. Conductor: Kretzschmar. Edith Hasselmann (Soprano). Leonore Eichhorn (Contralto). Paul Reinecke (Tenor). Siegfried Niemann (Compère).

10.0—News; Sports.

10.30—See Deutschlandsender.

12.0 m't.-3.0 a.m. (Monday)—See Hamburg.

Hamburg.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.55 a.m.
4.45 p.m.—Concert.
5.30—Chopin Pfte. Recital from Alpes-Grenoble.
6.30—Records: Military Music and Songe

6.30—Records: Military Music and Songs.
6.50—falk: Careers.
7.6—See Paris (Radio-Paris).
7.30—Radio Journal; Weather.
8.9—Records of Clara Clairbert.
8.9—Sports; Dance Records.
8.36—Station Orchestra. Liliane Yvens (Songs). Duminy (Baritone). Overture, "Preciosa" (Weber). Canzonetta from the Concerto romantique (Godard). Suite à l'antique (de Taeye).
Ballet, "Hérodiade" (Massenet). Songs: (a) Aubade d'amour Ballet, "Hérodiade" (Massenet).
Songs: (a) Aubade d'amour
(Monti), (b) Indian Love Call,
"Rose Marie" (Friml), (c) J'ai
rêvé d'un amour (Pesse), (d)
Aria, "Le Roi d'Ys" (Lalo).
Piece (Weninger). Selection,
"Lohengrin" (Wagner). Paysages normands (Sporck). Sérénade (Soret). Baritone: (a) Aria,
"Rigoletto" (Verdi), (b) Les
trois Hussards (Liaunet), (c) Le
fou de Notre-Dame (Desmoulins).
Monôme d'étudiants (Casa-Monôme d'étudiants (Casadesus), Suite bergamasque (Debussy), Selection, "Mignon" (Thomas), Bosnian Dance (Bal-

leron). . 10.30 (approx.)—News.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
10.30 a.m.—Records, In the intervals, Commentary on the "Round the Houses" Motor-

Kound the Houses Motor-Cycle Race.

11.30—Bible Reading.
12.0 noon—Band from Chiasso; at 12.30 p.m.—News.
1.0-1.30—Records: Verdi Opera

Arias.
6.30—Nino Herschel (Harpsichord). 6.30—Nino Herschel (Harpsichord). Fantasia (Bach). Variations (Sweelinck), Suite (Handel), Sarabande and Minuet (Bach). The Egyptian (Rameau). 7.0—Sports; Records. 7.50—News. 8.0—"Passaggio a Livello"—Play (Ferial).

8.0—" Passaggio a Livello "—Play (Ferioli).
9.0—Guido Agosti (Pfte.). Two Chorals (Bach-Busoni). Pathetic Sonata in C minor (Beethoven). La soirée dans Grenade (Debussy). Feux d'artifice (Debussy); at 9.20 — Eugenio Montale reads his Poems.
9.45 - 10.15 — Records: French Sailor Songs.

MOSCOW

MOSCOW
172 kc/s (1,744 m.); 500
12.30 p.m. — Talks (Ita
Swedish).
5.0—Music; News; Talks.
9.30—News; Kremlin Chimes.
10.0—Talks (English, French).
12.0 m't.—Talks in Spanish. (Italian.

MUNICH

MUNICH
740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s
(236.8 m.).
6.0 a.m.—See Hamburg.
8.0—Roman Catholic Service.
8.30—Hans Kunz (Baritone), Günther Küsshauer (Pfte.).
9.0—Records.

8.0—Roman Catholic Service.
8.30—Hans Kunz (Baritone), Günther Küsshauer (Pfte.).
9.0—Records.
10.0—Address and Music.
10.30 (from Nürnberg) Folk Music. Military Band. Conductor: Lobenhofer. Esche Choir. Else Baumann (Contralto). Gretel Alt (Songs to the Lute). The Kriegners (Songs). Gustlengler (Accordion). The Günthers (Recorders). In the interval, Report: Rhön Woodcutters (Recorded).
12.0 noon—Military Band from the Feldherrnhalle.
12.35 p.m.—Time; Weather.
1.0 (from Augsburg) — Orchestra. Conductor: Herre. Menzel (Harp).
3.0-3.30—"Rübezahl geht einmal tanzen"—Play after an Old Silesian Legend (Dolata) (Recorded).

3.45—A Painter wanders through the Alps—Reminiscences of Ludwig Richter.
4.0—See Saarbrücken.
6.0 (from Augsburg) — Oberstdorf Guides at the Microphone.
7.0—Time; News; Weather.
7.10—Baier Instrumental Double Oparter.

7.0—Time; News; Weather,
7.10—Baier Instrumental Double
Quartet,
7.40—Sports.
7.45—Report: The Storm-Troopers'
Summer Sports at Bad Tölz.
8.0 — Russian Opera Excerpts.
Station Choir and Orchestra.
Conductor: Winter, Hans Decker,
Annemarie Bischoff, Wilhelm
Hezel, Martha Martensen, Anton
Gruber-Bauer, etc. "The Queen
of Spades" (Tchaikovsky), "The
Fair at Sorochintsy" (Mussorgsky), "Kashtchei the Deathless"
(Rimsky-Korsakov), and "Prince
Igor" (Borodin).
10.0—Time; News; Sports,
10.30—See Deutschlandsender.
12.0 m't.-3.0 a.m. (Monday)—See
Hamburg.

NAPLES GROUP

MAPLES GROUP

Maples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), 610 kc/s (491.8 m.); Rome (No. 3), Bari (No. 2), Milan (No. 2), Turin (No. 2), and Genoa (No. 2), 1,357 kc/s (221.1 m).

8.30 a.m.-2.15 p.m.—See Rome Group.

2), 1,357 kc/s (221.1 m).
8.30 a.m.-2.15 p.m.—See Rome Group.
4.30—"Don Pasquale" (Donizetti) (Recorded). In the interval, Talk and Sports. After the Opera, Sports.
7.0—Lucca Dopolavoro Mandoline Band. Overture, "Nebuchadnezzar" (Verdi). Suite marinaresca (Amadei). Selection, "Fedora" (Giordano). Overture, "Le maschere" (Mascagni).
7.25-8.30—See Rome Group.
8.30—"Il re della graticola"—Folk Play (Bonelli), Music by Cremesini.
9.0—Light Music.
9.20—"At the White Cat"—Song Revue.
10.0 (approx.)—Dance Music.

Revue. 10.0 (approx.)—Dance Music 11.0-11.55—News; Dance M

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Relayed by Fredrikstad, 722 kc/s
(415.4 m.); Hamar, 519 kc/s
(278 m.); Notodden, 1,357 ke/s
(221.1 m.); Porsgrund, 850 kc/s
(352.9 m.); Rjukan, 1,348 kc/s
(222.6 m.); and Trøndelag, 629 kc/s (476.9 m.).
4.0 p.m.—Variety Concert.
5.5—Norwegian Folk Music by Haugerud (Hardanger Fiddle) and Brekke (Songs).
5.35—Talk.
5.35—Turkish Music. Conductor: Naess.

5.35—Talk.
5.55—Turkish Music. Conductor:
Naess.
6.55—News; Talk.
7.30—Station Orchestra. Conductor:
Kramm. Overture,
"Orpheus in the Underworld"
(Offenbach). Variations on a
German Folk Song (Ochs).
Solveig's Song (Teilmann). Potpourri (Morena).
8.10—Report on Records.
8.30—Community Singing with the Station Orchestra. Conductor:
Kramm.
9.0—Play:
9.15—Waldemar Johnsen (Songs).
Songs (Schumann): (a) Widmung,
(b) Du bist wie eine Blume, (c)
Mondnacht, (d) Die beiden
Grenadiere—Schubert: Am Meere
and Ständchen.
9.49—News; Sports Notes.
10.15-10.50—Dance Music.

PARIS (Eiffel Tower)

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.

Transmits at intervals from 7.30 a.m.
3.15 p.m.—Lucien Verroust (Songs),
Maillard - Verger (Pfte.) and
Jacques Quesnel (Violin), Sonata
(Debussy). Les Saintes du
Paradis (Déré), Violin: (a) Berceuse (Moret), (b) Slav Song
and Dance (Moret), Pfte.: Two
Preludes (Tournemire), Les harmonies intimes (Lesur), Excerpts,
"A l'amie perdue" (Dupré),
4.39—Records.
4.45—See Lille.
5.30—Chopin Pfte. Recital from
Alpes-Grenoble.
6.30—Jany Delille (Songs) and
Gisèle Kuhn (Pfte.),
7.0—Orchestra from Toulouse
(PTT),
7.30—Radio Journal; News,
8.0—Janine Andrade (Violin) and
Rliane Magnan (*Cello) Il Piastor

(PTT).
30—Radio Journal; News.
0—Janine Andrade (Violin) and Bliane Magnan ('Cello), Il Piastor Fido (Vivaldi-Bazelaire). Sonatine (Rivier).

8.30—Variety Programme by Ex-Servicemen: "Parpagnol craint l'hiver" — One-Act Comedy (Baudin - Brisart); "Monsieur, l'hiver " — One-Act Comedy (Baudin - Brisart); "Monsieur, Madame et l'autre "— Sketch (José de Bérys-Léon Granier); Bouillon Band. 10.30—Records. 11.0-11.15—News; Weather.

PARIS (Poste Parisien) 959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 8.0 a.m. 45 a.m.—The French Cycling Championships — Report by Georges Briquet from Montlhery. 9.0-Records : Light Music.

11.0 — Programme presented by Jacques Breteuil.

9.0—Records: Light Music.

11.0 — Programme presented by Jacques Breteuil.

11.40—Letter-box; Announcements.

12.5 p.m.—The French Cycling Championships: The Stat——Report by Georges Briquet from Monthéry; Records.

12.30—News.

12.35—'Si je gagnais les cinq millions," with Robert Darthez.

12.52—Amusement Guide.

12.52—Amusement Guide.

12.53—The Treasure Hunt, with Pierre Dac.

1.10—Vocal Quintet, with Raymond Souplex and Jane Sourza.

1.45—Talk: Yolanda.

2.0—News; Records.

4.15—The French Cycling Championships: The Finish—Report from Monthéry.

4.30—Records: "Samson and Delilah" (Saint-Saens).

5.0—Records: Light Music.

7.0—News; Racing; Sports.

7.30—Racing; Band Records.

8.5—Les Frères Jacasse.

8.10 — Song Records—Massenet, Fauré (Duparc).

8.20—"Gibier de Potence"—One-Act Comedy (Feydau), with Charles Dechamp, etc.

8.45—"La bonne histoire."

9.0—Amateurs' Programme.

9.50—News.

10.0—Cabaret,

10.30—Records: Light Music.

11.30—News.

PARIS (PTT)

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW. 7.0 a.m.—News; Records. 7.45-8.30—News; Records.

7.0 a.m.—News; Records.
7.45-8.30—News; Records.
9.0—For Farmers; Records.
10.0—Laurent Orchestra; at 10.30
—Sound News; Sports.
11.45—Talk.
12.0 noon — Andolfi Orchestra.
Suite pittoresque (Pessard).
Extase (Ganne). Sérénade à Pausillippe (Andolfi). Negro Lullaby (Clutsam). Selection, "The Gipsy Baron" (Strauss). Entr'acte Pizzicati (Thomé). Pieces (d'Ambrosio): (a) Gavotte and Musette, (b) Rève, (c) Napoli. Scherzo (Raff). Waltz, An der schönen grünen Narenta (Komzak). Romance in F minor (Tchaikovsky). Fantasia on Hungarian Dances (Brahms-Lotter); at 12.45 p.m.—News; and at 1.15—Christiane Gaudel (Songs).
2.0 — "Boumpernikel"—Play in Three Acts (Variot).
4.0—"Street Scenes in Paris a Century Ago"—Radio Fantasy (Champigneulle), with Germaine Corney, Jane Morlet, Suzanne Perrault, Camus and René Hérent.

Perrault, Camus and Rene Hérent.

4.45—Dance Records.

5.0—Commentary on the International Football Cup Final from Colombes Stadium.

7.0—Radio Journal; News.

8.0—"Les Frères Jacques" present Grett Vernon.

8.30—Plays: (a) "Le tragique mystère de Verdun (1792); "(Lespine); (b) "La mort due Duc d'Enghien" (Hennique).

10.30—News; Dance Records

11.0—See Paris (Radio-Paris).

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
.50 a.m.—Programmes; Records.
.15 — Time; News; Gym;

6.00 a.m.—Programmes; Records.
7.15 — Time; News; Gym;
Records.
8.0—News; Press Review.
8.30—German Lesson.
8.45—Book-keeping Lessons.
9.15—Talk: China.
9.30—English Lessons.
10.10—Spanish Lesson.
10.30—Italian Lessons.
11.0—See Prague.
12.0 noon—Roman Catholic Address by the Rev. Fr. Gicqueau.
12.20 p.m.—Litaize (Organ). L'appartiton de l'Eglise éternelle (Messiaen). Intermezzo pastoral (Litaize). Stèle pour un enfant défunt (Vierne). Hymne d'actions de grâces (Langlais).

12.40-Goldy Band.

12.40—Goldy Band.
1.0—Time; News.
1.15—Goldy Band.
1.30—Yvonne Guillet (Songs).
1.45—Goldy Band.
2.0—Sound News.
2.10—For Children: "Ida la Sauvageonne "—Operetta (Marie-Antoinette de Miollis), with Félix Bellet as Père François.
3.0—Gras Orchestra. Alsatian March (Staz). Sérénade provençale (Lavagne). Oh! si les fleurs avaient. des yeux (Massenet). Selection, "Le Postillon de Longjumeau" (Adam). Scènes alsaciennes (Massenet).
3.30—Commentary on the "Grand Steeple-Chase" from Auteuil.
4.30—"Les Compatriotes"—One-Act Play (Monnier).
5.30—Sevrane (Songs).
5.45—Regor (Songs).
6.0—Records: Les Songes (Milhaud). Conductor: The Composer.
6.15—Eddie Foy Band.

poser.
6.15—Eddie Foy Band.
7.0—"Le Guet-Apens"—Detective
Play (Cossin) with the Author as

Marcel.
7.30—Radio-Paris Guignol by Bilboquet and Company: "Ur

7.30—Radio-Paris Guignol by Bilboquet and Company: "Un petit voyage d'agrément" (Crozière). In the interval, Polichinelle.
7.59—Time; Home Affairs.
8.0—Foreign Affairs.
8.15—Lyane Mayrève (Songs).
8.30—Symphony Concert. Conductor: Bruno Pleier, Denyse Bertrand (Violin), Marcelle Gérard, Souchal and Jean Hazart. Symphony in C (Mozart). Violin and



Exclusive "World-Radio" Picture

Mme. Janine Crispin, who takes the part of Fanny in "Les Compatriotes" (Radio-Paris 4.30 p.m.)

Orchestra: Ballad (Bachelet). Spanish Rhapsody (Albeniz). Edmond et Calixte (Madeleine Perissas); at 9.30—News; Press

Perissas); at 9.30—News; Press Review. 10.35—Sound News. 10.45—Time; News. 11.0—Bouillon Dance Band. 1.0 a.m. (Monday)—Programme Notes.

PRACHE

PRAGUE

638 kc/s (470.2 m.); 120 kW.
6.30 a.m.—Records; News.
7.0—Orchestra from Podebrady.
8.0—Police Messages.
8.10—Sokol Gymnastics.
8.40—Meditation; Record.
9.0—For Workers; Sketch.
9.30—Report: Sokol Olympic Games, 1938—the March through Prague.
9.45—Records.
10.0—Opening of the Provincial Exhibition at Nachod.
10.30—Czech Women and the Baroque Period — Talk and Reading.

Baroque Period — Talk and Reading.

11.0 — Mass of St. Wenceslas (Michna of Otradovice) from St. Nicholas' Church.

12.0 noon—Chimes; Press Review.

12.25 p.m. — FOC Orchestra, Sroubek (Violin), Station Choir, etc. (Recorded).

1.50—For Farmers.

2.5-2.30—Records.

3.30—Commentary from the Sokol Stadium: Sokol Olympic Games.

4.40—Brass Band Records.

5.0—One-Act Comedy (Chekhov-Kares).

5.0 — One-Act Comedy (Chekhov-Kares).
5.15—FOC Orchestra, Conductor: Parik, Station Choir, Conductor: Kühn, and the Ondricek Quartet (Recorded). Waltz, "Eugene Onegin" (Tchaikovsky). Andante cantabile from the String Quartet (Tchaikovsky). Excerpts, "The

Bartered Bride'' (Smetana). Triumphal March (Glazunov). 5.45—Talk. 6.0—Moravská-Ostrava Station Or-chestra and a School Choir

6.0—Moravská-Ostrava Station Orchestra and a School Choir (Recorded).
6.30—Brno Station Orchestra, Visvary (Violin), etc. (Recorded).
7.0—News; Weather; Topical.
7.20—Sokol Notes.
7.25 — "Harvest-time" — Music, Songs and Literature.
8.10—See Brno.
8.45—Talk: Prague Sixty Years Ago.

Ago.
9.0—Orchestra from Kosice.
9.55—News; Racing Results.
10.35-11.30—Records.

RADIO EIREANN

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.).

kc/s (242.9 m.).

1.30-3.0 p.m.—Records.
5.30—Fairview Church Choir.
6.0 — Programme of Contrasts —
Records. Hungarian Dances
(Brahms). Spanish Dances
(Granados). German Dances
(Mozart).
6.35—Variety Programme in Irish
—Cumann Liteardha Corcaigh.
7.35—Louis Lee's Accordion Band,
with Songs.
8.15—Tell us your Grievance —
Programme compèred by Roger
McHugh.
8.45—Dublin Metropolitan Ceilidhe
Band relayed from the Carnival,
Richmond Park.
9.30—Variety Programme.
10.30—News.

10.30—News. 10.45—Gaelic Sports Talk by Sean O'Ceallachain. 11.0—National Anthem.

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.

1,411 kc/s (212.6 m.); 15 kW.
7.10 a.m.—Call
7.15—Press Review; News.
7.45—Service from All Saint's Church, Rouen.
8.0—March of Mclody.
8.15—Time; Breakfast with Music.
8.30—Songs we know them by.
8.45—George Formby and Beryl with John Firman's Orchestra.
9.0—Time; Light Music.
9.15—The Music Box.
9.30—Felix Mendelssohn's Orchestra with Muriel Kirk and Ronald Sherwood.
9.45—Fun Fair, with Fred Douglas, Wyn Richmond, Barrel-Organ arrangements by Signor Pesarasi.
10.0—Waltz Time—Billy Bissett's Waltz Time Orchestra, Hugh French, Esther Coleman and the Waltz Timers.
10.15—Carson Robison and his Pioneers.

Waltz Timers.

10.15 — Carson Robison and Bioners.

10.30—Eddie Pola (Pfte.).

10.45—Family Favourites.

11.0 — Time; Donald Peers — Cavalier of Song.

11.15 — Radio Parade with Wyn Richmond, Wilfrid Thomas and Bobby Howell's Band. Compère: Eddie Reinhart.

11.45 — Report: The 24-hour Motor Cycle Race at Le Mans.

12.15 p.m.—Excerpts, "L'enfant de troupe" (Jane Bos).

12.15 p.m.—Exercipes,
troupe'' (Jane Bos).
12.30—News.
12.40—Roman Catholic Address.
1.0—Request Music.
1.30 — Les Allen, Paula Green,
Arthur Young, and Reginald
Foresythe (Pfte.).
2.0—Billy Cotton and his Band
with Fred Duprez, Peter
Williams, Alan Breeze and Jack
Dovle.

with Fred Duprez, Peter Williams, Alan Breeze and Jack Doyle.

2.30—Phil Park (Organ).

2.45—The Open Road.

3.0 — Serenade to Melody, with Jack Jackson and his Orchestra, Barbara Back and a Star of Tomorrow.

3.30 — The Gaieties, with Leslie Henson, Roy Royston, Ginger Matthews, Yvonne Ortner, George Neil, Rob Currie and the Gaiety Rhythm Boys.

3.45—Report: The 24-hour Motor Cycle Race—The Arrival at Le Mans.

4.15—Picture House with Hughie Green, Beatrix Lehmann, Vic Oliver, Georges Metaxa, Niela Goodelle, Al Bowlly, Jack Raine, the Rhythm Brothers, the Voice of Walt Disney and Orchestra. Conductor: Debroy Somers.

5.0—Backstage with Sir Seymour Hicks, Jean Colin, Denis Van Thal and his West End Theater Orchestra, etc.

Orchestra, etc. 15—Carroll Levis and his Radio

5.15—Carroll Levis and his Annual Discoveries.
5.30—Hutch—Romantic Singer.
5.45—Variety with Uncle George, Helen McKay and Johnnie Johnston.
6.0—Harold Ramsay (Organ).

6.15 — Showland Memories — A
Musical Cavalcade of Theatreland Past and Present with
Webster Booth, Olive Groves and
the Showlanders.
6.30 — Radio Revue with Jack
Hylton, etc.
7.0—The Ace of Hearts Orchestra.
7.15 — The Biggest Little Programme, with Louise Brown,
Billy Scott-Coomber, Monia Litter
and Evelyn Corry.
7.30—News; Sports Notes.
8.0—Concert.
9.0—Humorous Items.
9.50—Talk.

9.0—Humorous Items.
9.50—Talk.
10.0—Raki.
10.0—Raki.
10.0—Raki.
10.0—Raki.
10.0—Raki.
10.0—Raki.
10.0—Sandio Normandie Calling —
Alfredo and his Gipsy Band, Joe
Young and Company, Belles of
Normandy, Marie and Laura
Carson and Maisie Weldon. Compere: Roy Plomley.
10.30—John Goodwood; Music.
10.45—Bohemian Holiday.
11.45—Bohemian Holiday.
11.45—From the Hill-Billy Cabin.
11.30—Normandie Playbill — Announcements; Music.
11.45—Sweet Music.
11.45—Sweet Music.
11.45—Sweet Music.
11.40—I.0 a.m. (Monday) — Time;
Dance Music.

RENNES-BRETAGNE

RENNES-BRETAGNE
1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 7.0 a.m.
3.15 p.m. — "Quatre fois sept,
vingt-huit"—Play in Three Acts
(Coolus).
5.0—See Paris (PTT).
7.0—News; Sports; Records,
8.0—See Paris (PTT).
8.30—To be announced.
10.30 (approx.)—News; Concert.

ROME GROUP

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), 1,059 kc/s (283.3 m.); Palermo, 565 kc/s (531 m.); Bologna, 986 kc/s (304.3 m.); Naples (No. 2), 1,348 kc/s (222.6 m.).

8.30-8.50 a.m.—Time; News.

9.15—For Soldiers.

10.0—For Farmers.

11.0—Mass from the Basilica of the Annunciation, Florence.

12.0 noon—Bible Reading.

12.20 p.m.—Sports; Choir.

1.0—Time; News.

1.15—A Competition.

1.45-2.15—Records: Light Music.

5.0—Band, Conductor: Marchesini.
Overture, "Torvaldo e Dorliska" (Rossini). Selection, "Romeo and Juliet" (Bellini). The Flight of the Bumble Bee (Rimsky-Korsakov). March, 11 castello di Macallé (Marchesini); at 5.45—Sports; Weather.

6.30-6.45—Sports; Weather.

6.30-6.45—Sports; Records.

7.25—Sports; Light Music.

8.0—News; Talk; Music.

8.0—News; Talk; Music.

8.0—Chome and Naples (No. 2) —Light Music.

9.0—"The Barber of Seville" (Rossini). Conductor: Previtali. Chorus Master: Costantini. Cast: Giovanni Manurita, Luigi Bernardi, Lina Pagliughi, Carlo Tagliabue, Nicola Moscona, Agnese Dubbini. In the intervals, Topical Talk; Talk in Danish; News. After the Opera, Dance Music.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.

Dance Music.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).
6.0 a.m.—See Hamburg.
7.50—Topical.
8.0—Roman Catholic Service.
8.30—Time; Variety Records.
9.0—Beautiful Melodies—Records.
10.90—Music and Address,
10.30 — Franz Schubert — Three Scenes (Anna Müller), with Songs.
10.50—Listeners' Youthful Pranks.
11.0—Military Band.

Jose Listeners' Youthful Pranks.

11.0 — Military Band.

12.0 noon—See Berlin; at 1.0-1.5 p.m.—Time; Weather; Greetings.

2.0 — See Frankfurt.

2.30 — Konkordia Choir. Conductor: Peter Marx. Lied der Deutschen (Hensel). Deutschlands Erwachen (Stier). Songs (Lang): (a) Unser Vetter Veitl, '(b) Soldatenleben, (c) Es ritten drei Reiter, (d) Schatz mein Schatz. Five Songs (arr. Willms).

3.0 — Records: Allegro and Andantino from the String Quartet in E minor (Verdi), by the Prisca Quartet.

Quartet.

3.15—Reading.
3.30 (from Mannheim)—Trio in D
(Beethoven) by Max Kergl
(Violin), Ernst Koenig (Viola),
and Karl Müller ('Cello).
4.0—Station Orchestra. Conductor:
Hörner. Hedwig Jungkurth
(Soprano). Mimi Thoma. Friedrich Engels (Tenor). Franz Wolf
(Baritone).
6.0—"Der Weg des Helden"—
Sequence (Wenzel). Music by
Sattler.

7.0—Time; News; Weather.
7.10—Talk and Records.
7.30—Sunday Sports and Events.
8.0—To be announced.
10.0—Time; News; Weather.
10.30—See Deutschlandsender.
12.0 m't.-3.0 a.m. (Monday)—See Hamburg.

SOTTENS 677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 9.55 a.m. - 12.30 p.m. — From

Geneva.

9.55 — Chimes and Protestant Service.

Service,
11.15—Records,
12.30-2.0 p.m.—News; Weather;
Records,
3.45-4.40—Sports Commentary,
6.0-7.50—From Geneva.

6.0-Rccords.
6.0-Rccords.
6.25-Ellen Benoit (Songs-Grétry,
Scarlatti, Cavalli, Debussy,
Honegger).
6.55-Roman Catholic Address.
7.25-Gregorian Choir from the
Eglise Sainte-Croix. Conductor:
Carraz.
7.45-Announcements.

12.0 noon—Orchestra, Conductor:
Bour, March (Suppé). Russian
Song and Dance (Schulenburg).
Overture, "Les Cloches de
Corneville" (Planquette). Two
Songs without Words (Rust).

Overture, "Les Cloches de Corneville" (Planquette). Two Songs without Words' (Rust). Waltz, Mon rêve (Waldteufel). Selection, "Polenblut" (Nedbal). 12.45 p.m.—News.
1.15—Orchestra (contd.), Suite, Gitaneries (Razigade). Venetian Song and Hindu Song (Rimsky-Korsakov). Czardas, Kossuth (Michiels). Suite (Loehr). Two Slav Dances (Dvořák).
2.0—For Farmers.
2.30—Sunday Review.
2.45—Medical Talk; Records, 3.15—Excerpts from Opéra-Comique and Operetta.
4.0—Fidelia Choir of Algrange. Les paysans (Saintis). Des Sängers Sonntagsfeier (Kretschmer). Pastorale (Saintis). O grüss sie mir (Kayser).
4.30—"The Strawberry" Alsatian Folk Festival from Lingolsheim. 5.55—Commentary on the Second Half of the International Football Cup Final from the Colombes Stadium, Paris.



Photo: Paganini

Scene from "The Barber of Seville" which will be broadcast by the Rome group of stations at 9 p.m. (and from the Turin group at 9 p.m. on Tuesday).

7.50—News; Weather.
8.0 till Close Down—From Geneva.
8.0—Sunday Sports.
8.0—Sunday Sports.
9.90 Sunday Sports.
7.50—News; Weather.
7.30—Operetta Music by Viard (Saxophone).
7.45—News (German, French). 8.0 till Close Down
Geneva.
8.0—Sunday Sports.
8.20—Geneva Radio Ensemble.
8.50—Interlude.
9.0—"L'Arlésienne" (Bizet) by
the Chariot Company.
10.30-11.0—Dance Records.

STOCKHOLM

TOCKHOLM

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: Pfte. Concerto in B flat (Brahms) by Schnabel and the BBC Symphony Orchestra. Conductor: Sir Adrian Boult.

11.0—Service.

12.40 p.m.—Weather; News,
1.0—Ake Claesson (Songs to the Lute).

1.20—Commentary on the International Football Match, Denmark v. Sweden at Copenhagen.

3.15—Light Music by the Waldimir Orchestra.
4.0—Reading; Records.
5.30—Choir. Conductor: Anderson.
6.0—Evensong from Hälsingborg.
7.15—News; Weather; Talk.
8.0—Musical Guessing Competition.
Radio Orchestra. Conductor:
Lars-Erik Larsson.
9,15—Crusenstolpes kravaller"—

8.0—Musical Guessing Competition, Radio Orchestra. Conductor: Lars-Erik Larsson.
9.15—"Crusenstolpes kravaller"—Historical Play (Nerman).
10.0—News; Sports.
10.30-11.0—Henning Mankell Concert. Signe Rappe (Songs), Herbert Westrell (Pfte.). Suite in Fminor. Songs.

STRASBOURG

STRASBOURG

859 kc/s (349.2 m.); 100 kW.

6.45 a.m.—Gymnastics.

7.0-8.30—News (French, German).

9.0—For Farmers.

9.15—Schumann Records. Violin Concerto in D minor by Georg Kulenkampff and the Berlin Philharmonic. Conductor: Schmidt-Isserstedt. Dichterliebe, by Gerhard Hüsch (Baritone) and Hanns Müller (Pfte.). Violin Concerto in D minor by Yehudi Menuhin and the New York Philharmonic. Conductor: Barbirolli.

10.45—Protestant Service.

11.30—Roman Catholic Service (German).

7.45—News (German, French).

8.30 — Military Band from Metz.
Conductor: Capt, Leroy. Bleuez
(Violin). Marche lorraine
Ganne). Overture, "Ramuntcho" (Pierné). Danse macabre (Saint-Saëns). Violin:
Hindu Song (Rimsky-Korsakov).
Rédemption (César Franck).
Violin: Romance in F (Beethoven). Overture, "Tannhäuser"
(Wagner). March (Leroy-Rabault).

9.45 — Fantini Mandoline Quartet.

(Wagner). March (Leroy-Rabault).
9.45 — Fantini Mandoline Quarter.
Overture, Myrthalia (Macioccti).
March, L'esprit français (Mezzacapo). Selection, "William Tell" (Rossini). Mattinata (Leoncavallo). Waltz, España (Cottin) Wolgaklänge (Ritter).
Ronda misteriosa (Manenete).
Chitarrata alla bella (Coletta).
American March (Billi).
10.30—News (French, German).
11.0—Dance Music from Paris.

STUTTGART

574 kc/s (522.6 m.); 100 kW. 6.0 a.m.—Military Band, Accor-dion Band, Stuttgart Folk Music Ensemble and Boys' Choir. 7.0—Orchestra from Bad Mergen-

theim.

8.0—Water Level; Weather; For Peasants; Gym.

8.30—Roman Catholic Service from

Mannheim.

9.0—See Berlin (Deutschlandsender).

10.0—See Königsberg.

10.30—Variety Records.

11.30—Symphony Orchestra from Baden-Baden. Conductor: Les-

11.30—Symphony Orchestra from Baden-Baden. Conductor: Lessing.

12.30 p.m.—Military Band and Aviation College Band.

1.0—Topical.

1.15—Station Orchestra. Conductor: Görlich.

2.0—See Frankfurt.

2.30—Records.

3.30—Stuttgart Choir. Conductor: Müller. Lebewohl (Silcher). Folk-Song, Drei Reiter am Tore. Es bleibt nichtdabei (Löffler). Der Wirtin Töchterlein (Silcher). Folk-Song. Es waren zwei Königskinder. Waldesnacht (Brahms).

4.0 (from Mannheim)—Heidelberg Municipal Orchestra. Conductor: Bohne. Friedrich Schery (Pffe.). In the intervals—Reports: The International Rowing Regatta at Mannheim.

SUNDAY (June 19)

6.0—" Würzburg"—Sequence (arr. Wulff).
7.0—Variety Records.
7.30—News; Sports.
8.0—"Everything for Men, Women, and Children"—Sketches from a Large Store (Stauder): (a) "In the Office," (b) "Shop Window Models," (c) "Two Men Shop Window-gazing," (d) "A Man and a Woman before the Microphone." Music by Station Orchestra, Karl Jautz (Tenor), etc. 10.0—Time; News; Sports.
10.15—Echoes of Reich Theatre Festival Week.
10.30—See Deutschlandsender.
12.0 m't.-3.0 a.m. (Monday)—See Frankfurt.

TOULOUSE (Radio-

TOULOUSE (Radio-Toulouse)
913 kc/s_(328.6 m.); 60 kW.
11.40 a.m.—For Mothers.
11.45—Extase (Ganne)—Orchestra.
11.50—Roman Catholic Address.
12.5 p.m.—Film Music.
12.30—News; Talk.
12.45—For Children.
12.50—Orchestra.
1.15—Selection, "Le chanteur de minuit" (Misraki).
1.30—Salon Orchestra.
1.45—Chansonnettes.
1.55—News.
2.0-2.15—Protestant Address.
6.0—News.

6.0—News.
6.15—Scotto Operetta Music, Excerpts, "Ceux de la légion" and "Les gangsters du chateau

and Les gargaters du Chateau d'H."

6.40—Light Orchestral.
6.55—News; Sports Notes.
7.15—Bal Champêtre.
7.45—Film Music; News.
8.0—Operetta Music. Excerpts,
"Ginette et moi" (Messier),
"The Three Waltzes" (O.
Straus) and "The Circus
Princess" (Kalmán).
8.25—Talk; Variety.
8.45—Light Music.
9.30—"El Pampero"—Argentine
Cabaret.

8.45—Light Music.
9.30—"El Pampero "—Arge Cabaret.
10.0—News; Chansonnettes.
10.15—Salon Orchestra.
10.35—Light Music.
11.0—Marches; Light Music.
11.45—Dance Music.
12.0 m't.—News,

TURIN GROUP

TURIN GROUP

Turin (No. 1). 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), 814 kc/s (368.6 m.); Genoa (No. 1), and Trieste, 1,140 kc/s (263.2 m.); Bolzano, 536 kc/s (559.7 m.); Florence (No. 2), 1,258 kc/s (238.5 m.); and Rome (No. 2), 1,222 kc/s (245.5 m.).

8.30 a.m.-2.15 p.m.—See Rome Group.
5.0—Light Orchestral.
5.45—Sports; Weather.
6.0—Song Revue.
6.30-6.45—Sports; Records.
7.19 (Rome (No. 2) only)—News and Talk (English).
7.25-8.30—See Rome Group.
8.30—Light Music; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Talk (German).

Bolzano)—News and Talk (German).

9.0—"Acqua sul fuoco"—One-act Play (Morselli).

9.40 (approx.)—Band of the Carabineers. Triumphal March (Cirenei). Danza esotica (Mascagni). Albumblatt (Wagner).

Overture, "William Tell" (Rossini). In the interval, Talk.

11.0—News.

11.15-11.55—Dance Music.

VIENNA

TEINNA 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

and Salzburg, 1,346 ke/s (222.6 m.).
6.0 a.m.—See Hamburg.
8.0—Motto.; Gym.
8.25—For Hitler Youth.
9.0—Records.
9.55—Missa Lauda Sion (Springer) and Address by Dr. Jakob Weinbacher from St. Stephan's Cathedral

bacher from St. Stephan's Cathedral.

11.10—Josef Wollner Peasant Band and the Edelweiss Male Voice Choir, Conductor: Streitenberger, 11.55—Time; Cathedral Chimes.
12.0 noon—Light Orchestral. Conductor: Max Schönherr, Rudolf Nahlitschek and Wilhelm Drahozal (Violins).
1.0 p.m.—Station Orchestra. Conductor: Sandauer. Overture, "Wiener Frauen" (Lehär). Waltz, Perlen der Liehe (Jos. Strauss).
Sefira (Siede). Suite. Nordlicht

(Ortleb). Träume am Meer (Zander). Das Sommerfest (Brückner).
Pusztanacht (Borchert). Polka,
Tritsch-Tratsch (Joh. Strauss).
Wach auf! Deutsche Wach auf!
(Strecker).
2.0—Records: New Operetta Music.
3.0—"Rumpelstilzchen" — Fairy
Play (Grimm-Nothardt).
3.35—String Quartet in C (Haydn)
by the Popa Grama Quartet.
4.0—See Saarbrücken.
6.0—Adventures in the Forests of
Amazonas.
6.20—Soldiers' Choir. Conductor:
Pallmann.

20—Soldiers' Choir. Conductor i Pallmann.
—News.
10—Senta Benesch ('Cello), Christa Richter-Steiner (Violin), Roland Raupenstrauch (Pfte.). Czardas for 'Cello (Fischer), Perpetuum mobile for Pfte. (Weber). Caprice in E for Violin (Paganini), Taran-tella for Pfte. (Chopin). Mazurka for Violin (Zarzycki), Tarantella for 'Cello (Piatti). Concert Etude in F minor for Pfte. (Liszt).
40—Sports. 7.10-7.40-Sports.

m r minor for Pfte. (Liszt).

7.40—Sports.

8.0—German Opera Music, Mixed Choir and the Vienna Symphony Orchestra. Conductor: Konrath.

Maria Gerhart (Soprano). Karl Ziegler (Tenor). George Monthy (Baritone). George Puntschart (Bass). Excerpts, "Das Nachtlager im Granada" (Kreutzer), "The Taming of the Shrew" (Goetz), "Der Waffenschmied" (Lortzing), "Tsar and Carpenter" (Lortzing), and "The Barber of Bagdad" (Cornelius). Overture, "Christelfiein" (Pfitzner). Entry of the Guests, and Bass Aria from "Tannhäuser" (Wagner). Selection, "Die toten Augen" (d'Albert). Soprano Aria, "Ariadne auf Naxos" (R. Strauss). Waltz, "Der Rosenkavalier" (R. Strauss).

10.0—News; Sports.

10.30—Light Music. Station Orchestra. Conductor: Sandauer. Herma Vitas (Songs), Jaro Schmied (Violin).

12.0 m't.-3.0 a.m. (Monday) —See Hamburg.

WARSAW

224 kc/s (1,339 m.); 120 kW. Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Lódz, 1,339 kc/s (224 m.); Lwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.).

Transmits at intervals from 7.15 a.m. 8.0 a.m.—News

(359.7 m.).
Transmits at intervals from 7.15 a.m.

8.0 a.m.—News.
8.13.—For Country People.
9.15-11.45 (from Lwów) — Programme from Stanislawów: Report on the Town High Mass from the Crphanage; The Lower Carpathians — Musical and Literary Sequence.
11.45.—Cultural Review.
11.57.—Time; Fanfare.
12.1-1.0 p.m. (from Lwów)—Programme from Stanislawów.
12.1—Talk by the Voivode.
12.3.—Symphony Concert from the Theatre, Choir and Symphony Orchestra. Posh (Songs). Overture, "Halka" (Moniuszko). Musical Miniatures (Hausman). Songs of Stanislawów Composers (Janecki, Stadler, Hausman). Choir and Orchestra: Dance Suite, The Return (Noskowski).
1.0—Reading.

Cnon all Control of the Return (Noskowski).

O—Reading.

Light Music. Transport Workers' Band; Burski Sisters (Songs); Jablonski and Guitar Trio

(Songs), Trio.

7 Trio.

9—For Country People.

30—"Towards Hongkong" —
Radio Adaptation of K. Brinitzer's Play (Husarski).

0 — Sonata (Rachmaninoff) by
Lifan ('Cello) and Rabcewicz

(Pfte.)
5.30—Topical Report.
6.0—"The Land of Smiles"—
Three-Act Operetta (Lehár).
Conductor: Nawrot.
8.0—Programme Notes.
8.5 (from Torun) Pomeranian Youth
Congress—Concert by Massed

Choirs. 8.40—Political Review,

8.40—Political Review.
8.50—News.
9.0—" Maciek is dead" — Radio Fantasy (Bohdziewicz-Czysciecki).
9.40—Commentary on the International Football Match, France v. Poland (Recorded); Sports

v. Poland (Recorded); Sports Notes. 10.15—Dance Music by the Station Orchestra. 11.10-11.15—News; Weather.

MONDAY June 20

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)—"A Lion in the Drawing Room:" The Rt. Hon. Godfrey Locker-Lampson.

11.5 (D)—Records. 11.30 (D)—German for Schools.

11.45 (D)—Records. 11.30 (D)—German for Schools.

11.45 (D)—Records. 11.30 (D)—German for Schools.

12.0 (D)—Church History.

12.25 p.m. (D)—Percy Whitlock (Organ) 1.0 (D)—Dance records.

1.30 (D)—The Harp Trio, 2.5 (D)—For Schools.

3.0 (D)—Arthur Salisbury's Orchestra, 3.35 (D)—German.

4.0 (D)—Horace Finch (Cinema Organ), 4.30 (D)—Records.

5.0—All-English Lawn Tennis Championships: account of to-day's play by F. H. Grisewood.

5.10—Charles Brill's Orchestra: Enid Cruickshank (Contralto).

6.0—The First News, 6.20—Nina Milkina (Pfte.).

6.40—Music in Everyday Life: Herbert Howells, Mus.Doc.

7.0—"The Bungalow Club," with Anona Winn, Morris Harvey, Harold Clemence, Marcel Boulestin, Tommy Tucker and The Beachcombers.

7.45—Reginald Foort (BBC Theatre

Boulestin, Tommy
The Beachcombers.
45—Reginald Foort (BBC Theatre

7.45—Reginald Foort (BBC Theatre Organ).
8.20—The Wild Life Around Us:
J. Wentworth Day.
8.40—Miriam Licette (Sopraño).
9.0—The Third News.
9.20—World Affairs.
9.25—BBC Orchestra, conducted by Leslie Heward: Paul Makanowitzky (Violin).
10.40—Bedside Anthology of Diaries and Letters.
11.30-12.0 — Benny Goodman's Orchestra.

London Regional
Time Signals (normally): Big Ben,
10.15 a.m., 5.15 p.m., 12 midnight. Greenwich, 10.30 a.m.,
7.0, 10.0, 11.30 p.m.
10.15-10.45 a.m.—National.

night. Greenwich, 10.30 a.m., 7.0, 10.0, 11.30 p.m.

10.15-10.45 a.m.—National.

10.45—Records.

11.15—Eric Smith (Cinema Organ).

12.0—BBC Scottish Orchestra.

1.0 p.m.—Maria Donska (Pfte.).

1.30—Royal Marines Band: Cyril.

Pinch (Baritone).

2.30—Beryl Reid in Impersonations.

2.40—"Wheels," and "Now He's Been Warned: "short stories.

3.0—Buxton Spa Orchestra.

4.0—Byan Gipps (Violin); Helene Gipps (Pfte.).

4.30—Vest-pocket Vaudeville.

5.0—The Children's Hour.

6.0—Dale Smith (Baritone); The Little Orchestra.

6.40—Phyllis Scott and John Rorke.

7.30—The Trial of Sir Walter Ralegh, with Leon Quartermaine, Robert Farquharson, Harold Scott, Ralph Truman, Anthony Cope, Philip Wade, George Woodbridge, Peter Henschel, Charles Spencer, William Ashley, Arthur Vivian, Jarvis Walter, Spencer Trevor, Beatrice Gilbert.

8.20—"Badiolympus," with Elsie Eaves, Joan Tuckett, Leonard Henry, Horace Percival, Barry Kendall, Dennis Anderson, Derek Gill-Davies, Michael Holloway, Clifford Bean.

9.0—Welsh Guards Band.

9.0—Peter Yorke's Orchestra.

11.30—Records.

11.50-12.0—Late News Summary.

Midland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.9—Regional.
7.20—"This Week's Programmes.' 30—Regional.

O—May Cree (Pfte.); Mark Mellers (Baritone); Edwinstowe Mellers (Baritone); Edwin Choral Society. 9.0—BBC Midland Orchestra. 9.30-12.0—Regional.

Northern Northern

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20 — Northern Bulletin for Farmers, 7.30—Regional.
8.20—Brief Variety.
8.40—London Log.
9.0—Harrogate Municipal Orchestra, 9.30-12.0—Regional.

10.45 a.m.-6.0 p.m.-National. 6.0-Regional. 7.20-Western Announcements. 7.30-10.25-Regional.

Welsh

Welsh
10.15 a.m.-3.0 p.m.—Regional.
3.0—For Schools in Wales.
3.25-5.0—Regional.
5.0—The Children's Hour.
6.0—Burry Port Schools Children's Choir: Betty Davies (Soprano).
6.30—E. J. Hughes (Organ).
7.0—The Second News.
7.20—Welsh Announcements,
7.30—Regional .30—Regional. 7.30—Regional. 8.20—Cystadleuaeth Cynganeddu. 8.50—BBC Welsh Orchestra. 9.30—Ronald Hill (Tenor); Lena Griffiths (Pfte.). 10.0-12.0—Regional.

N. Ireland

10.15 a.m.-5.0 p.m.-Regional. 5.0-The Children's Hour. 6.0-Roland Powell's Quintet. 6.0—Regional.
7.20—N. Ireland News.
7.30—Regional.
9.0—Regional.
9.0—Royal Ulster Constabulary
Band: R. Leslie Graham (Bari-

9.45 — "Farmers' Work Worry: "Peter FitzPatrick. 10.0-12.0—Regional.

Scottish

Scottish
10.15 a.m.-2.0 p.m.—National.
2.0—For Schools, 3.35—National.
5.0—The Children's Hour.
6.0—Scottish Studio Orchestra.
6.25 — June in the Garden:
Alexander Keith, 6.40—Regional.
7.20—Gaelic News, 7.30—Regional.
8.20—Scottish Dance Music.
8.45—New Books in Scotland,
9.0—Ten Minute Revuette.
9.10—James Hinchliffe (Organ).
9.30-12.0—Regional.

Hours of Transmission in British Summer Time.

BERLIN

BERLIN

341 kc/s (356.7 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon—See Leipzig.
2.0 p.m.—News.
2.15—Hans Bund Band.
3.15—Exchange; Markets; Records.
4.30—Silesian Dances and Songs.
5.0—Records: Pfte. Concerto in Dminor (Mozart) by Erdmann and the Station Orchestra.
5.30—Walter Bloem—Talks and Readings.

5.30—Walter Bloem—Talks and Readings.
6.0—Orchestra.
7.0—News.
7.10—Hans Raue Band.
7.45—Evening Echoes.
8.0—"A Masked Ball" (Verdi) (Recorded), with Helge Roswaenge, Hans Reinmar, Hildegard Ranzcak, Station Choir, Chorus Master: Weigel, and Orchestra, Conductor: Heinrich Steiner.

10.0—News. 10.30 p.m.-3.0 a.m. (Tuesday)—See Cologne.

BEROMÜNSTER

DERUMUNSIER

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. (from Berne)—Gym.
12.0 noon—Suppé Records.
12.20-1.30 p.m.—Time; News; Records.

12.20-1.30 p.m.—Time; News, Records.
4.30—For Women.
4.40—Talk: Women Journalists.
5.0—Viennese Songs and Couplets followed by records.
6.0—Records: Children's Songs.
6.30—For Young People.
7.0—Time; Aviation Report; Records:

7.0—Time; Aviation Report; cords.
7.20—Talk: Animals in Mythology.
7.45—Weather; News.
7.55—Young Swiss Conductors—
Ernst Klug conducts the Zürich Radio Orchestra.
9.10—Announcements.
9.15—Review for Swiss Abroad.
9.30-10.30—See Monte Ceneri.

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 8.20 p.m.—Classical Music, Station Orchestra, Conductor: Schimpl. Macudzinski (Pfte.). Overture in

F (Mysliveček). Rondo brillante for Pfte. and Orchestra (Hum-mel). Scherzi notturni (Benda). F (Ny.... for Pfte. and Occ... mel). Scherzi nottumi (Benua). 9.0—Talk. 9.15-10.15—See Prague. 15-11.0— News (Hungarian)

BRESLAU

BRESLAU

950 kc/s (315.8 m.); 100 kW.
Relayed by Gleiwitz and Görlitz,
1,231 kc/s (243.7 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon—Airmen's Band.
1.0 p.m.—News.
1.15—Concert from Hamburg. 1.0 p.m.—News.
1.15—Concert from Hamburg.
2.0—News; Records.
4.0—Orchestra; at 5.0—Sports.
6.0—Talk: Films.
6.10—Talk: Zeebrügge, 1918.
6.25 — Schubert and Brahms

6.25 — Schubert and Brahm.
Records.
6.55—Programme Notes,
7.0—News; Markets.
7.10—"Princess Nefertiti',
(Dostal).
9.0—Concert from Stuttgart.
10.0—News.
10.30 p.m.-3.0 a.m. (Tuesday)—
See Cologne.

BRNO

922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 6.0 a.m.
4.15 p.m.—'Cello Concerto in B
minor (Dvořák) by Krenek and
the Station Orchestra, Conductor:
Bakala; Reading,
5.0-6.0—German Transmission: Talks;
Records

6.0—German Transmission: Talks;
Records.
6.35—Talk: Sociology.
6.45—News in German.
7.0-7.50—See Prague.
7.50—Talk.
8.5—See Prague.
8.25—"Nosaček"—Sequence (Guttmanova-Weilenova). Music by Tausky.
9.15-11.0—See Prague.

BRUSSELS (No. 1)
620 kc/s (483.9 m.); 15 kW.
6.30-9.5 a.m.—Records; Gym
News. News.
12.0 noon—Records: Light Music.
12.30 p.m.—Weather; Shipping.
12.35—Bogaert Orchestra.

12.55—Bogaert Orchestra.
1.10—News.
1.10—Bogaert Orchestra.
1.30—Records: Variety Music.
2.0-2.3—Art Notes.

1.30—Records: Variety Music.
2.0-2.3—Art Notes.
4.55—News.
5.0—Radio Orchestra, Conductor: Gason. Overture, Burlesque (Méhul). Waltz, Myosotis (Waldtufel). Tarantella (d'Ambrosio).
5.15—On a Walloon Farm.
5.30—Radio Orchestra, Conductor: Gason, Mme. Stradel (Songs), Bethume (Violin). Ballet, "Coppélia" (Delibes). Meditation, "Thais" (Massenet). Love Song (Tchaikovsky). Two Songs, "The Merry Widow" (Lehár). Suite variée (Pierné).
6.0—Talk: Industry on the Meuse.
6.15—Hout (Viola). Lied (d'Indy). Chaconne (Vitali-Chaumont).
6.30—Reading: Pêcheurs d'Islande (Loti).
6.45—Nicolas Amato (Songs).
7.0—Reviews: (a) Educational Books, (b) Holidays; Interview.

6.46—Nicolas Amato (Songs).
7.0—Reviews: (a) Educationa.
Books, (b) Holidays; Interview.
7.15—Organ Records.

7.15—Organ Records.
7.30—News.
8.0—English Music. Radio Orchestra, Conductor: Gason. African Suite (Coleridge-Taylor). Dances, "Nell Gwyn" (German). Salut d'amour (Elgar). Trees (Rasbach). Deep river (Coleridge-Taylor).
8.30—" Le peuple aux yeux clairs"—Play (Théo Fleischman).
9.40—Radio Orchestra, Conductor: Gason. Overture, Véronique (Messager). March of the Tin Soldiers (Pierné). Valse des blondes (Ganne). March of the Grenadiers (Schertzinger).
10.0—News.

10.0—News. 10.10-11.0—Records, Symphony (J. C. Bach). Fifth Symphony (Beethoven).

BRUSSELS (No. 2)
932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.
6.30-9.0 a.m.—Records; Gym;

Rogramme in Francis | Roym; News. | 12.0 noon—Request Records. | 12.31 p.m.—Salon Orchestra, Conductor: Féron. | 1.0—News; Shipping. | 1.10—Brenders | Jazz Band. | 1.30—Records: Light Music. | 4.55—News. | 5.0—Records: Variety Music. | 5.45—For Children. | 6.30—Records; Talk. | 7.0—Arsenieff (Pfte.), Moonlight Sonata (Beethoven). | Pathetic Sonata (Beethoven). | 7.30—Sports Report. | 8.0—Salon Orchestra, Brenders | Jazz Band, Elisabeth Bellina (Soprano).

8.45—Talk. 9.0—Orchestra, etc. (contd.).

9.0—Orchestra, etc. (contd.).
10.0—News.
10.10-11.0 — Request Records.
Overture, "The Thieving Magpie" (Rossini). Arias from
"Norma" (Bellini). "Lucia di
Lammermoor" (Donizetti). "Lagliacci " (Leoncavallo). "La
Bohème" (Puccini) and "The
Barber of Seville" (Rossini)
Overture, "Sicilian Vespers"
(Verdi). March (Hall).

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Transmits at intervals from 5.30 a.m. 6.0 p.m.—Time; Topical; Records; Talk.

5.0 p.m.—Time; Topical; Records; Talk.
7.5—Radio Orchestra. Conductor: Rogalsky; Badesco (Songs).
8.15—Talk.
8.35—Wind Quintet (Gieseking).
9.10 — Stefanesco-Goanga (Songs).
Aria, "Khovanshchina" (Mussorgsky). Mein Mädel hat ein'n Rosenmund (Brahms). Gia ill sole del Gange (Scarlatti). Aria (Delibes). Le Cor (Flégier).
9.30—News: Sports.
9.45—Café Concert.
10.45—News (French, German).

BUDAPEST

BUDAPEST

546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.5 p.m.—Salon Quintet; at 12.30
—News.
1.30—Light Orchestral.
2.35—News.
4.15—For Schools.
5.0—Dr. Viola Tomori.
5.30—Pál Kiss (Píte.).
6.5—Mihály Korék.
6.35—Gyula Kerékgyártó (Violin).
7.5—Talk with Song Illustrations:
Rousseau.
7.35—Dance Records.
8.25—News.
8.45—Rácz Cigány Band.
9.50—Budapest Concert Orchestra.
Conductor: Kojetinsky. Symphonic Variations on a Choral
Theme (Jerger). First Symphony
(Bayer).

(Bayer).
11.0—News (English, French).
11.10—Talk in English: Turkish
Times in Hungary.
11.25—Hellig Jazz Band.
12.5'a.m. (Tuesday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg. 2.0 p.m.—News; Light Music. 3.0—For Children. 3.30—Book Review; Markets. 4.0—See Frankfurt; at 5.0—Folk-

3.30—Book Refuer; at 5.0—Folklore.
6.0—Talk: Johann Georg Hamann.
6.20 — Chamber Music (Haydn,
Weber).
7.0—News.
7.10—Records.
8.0—Mandoline Band.
8.40—Review of the Week.
9.0 — Contemporary Music. Orchestra. Drissen (Baritone).
Heldisches Prelude
Landknechtskantate (Anders).
Overture and Presto from Sommernachtstraum (Fritzen). Hamburger Humoresken (Uddall).
Hessian Peasant Dances (Gerster).
10.0—News.

10.0—News.
10.20—The Round-Germany Cycle
Race: Eleventh Stage, Cologne-

10.9—News.

10.20—The Round-Germany Cycle
Race: Eleventh Stage, CologneBielefeld.

10.39—Station Orchestra. Conductor: Hilgers. Arenz ('Cello).
Excerpt, "The Italian Girl in
Algiers" (Rossini). 'Cello and
Orchestra: Gesangeszene (Kaun).
Eine kleine Nachtmusik (Mozart).
Ballet. "Faust" (Gounod).
Overture. "The Caliph of
Bagdad" (Boieldieu). Lotosblumen (Ohlsen). Lyric Pieces
(Grieg). Waltz, "The Arabian
Nights" (Strauss). Polka, Bahn
frei (Strauss).

12.9 m²t.-3.0 a.m. (Tuesday)—
Serenade by the Station Orchestras (Recorded).

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
Transmits at intervals from 5.0 a.m.
12.0 noon—See Hamburg.
1.45 p.m.—News.
2.0—Jäger Band and Records.
3.0—Markets; Records.
3.40—Lotte Möller, Scientist, interviewed.

3.40—Lotte Moller, Scientist, interviewed.
3.55—Programme Notes.
4.0—See Frankfurt; at 5.0—Topical.
6.0—"Der Brennspiegel"—Poems about Animals, with Music.
6.35—Records.
7.0—News

7.10 - " June Dreams " - Words

7.10 — "June and Music.
8.0—See Stuttgart.
9.0—Topical Talk.
9.15—Berlin Philharmonic String Quartet. Quartet in G (Grieg).
Italian Serenade (Wolf). Quartet. Quartet in G (Grieg). Italian Serenade (Wolf). 10.0—News, 10.20—See Cologne. 10.30-10.45 — NSKK Military

Sports.

11.0—Concert from Vienna.

12.0 m²t.—See Stuttgart.

1.6-2.0 a_sm. (Tuesday)—Concert from Cologne.

FRANKFURT

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
12.0 noon—See Hamburg.
2.0 p.m.—Time; News; Operetta
Records.
3.0-3.30—For Children.
4.0—Orchestra; in the interval,
The Roving Microphone.
6.0—Tonical.

The Royang
6.0—Topical.
6.30—The Merry Loud Speaker.
7.0—News; Weather.
7.10—"German Proverbs"—
quence with Haydn Mu

quence with Haydn Music (Fraenger).
8.0—See Stuttgart.
10.0—Time; News; Sports.
10.15—"Comrade, where are

10.15 — "Comrade, where are you?"
10.35—Music from Cologne,
12.0 m't.-3.0 a.m. (Tuesday)—See Stuttgart.

HAMBURG 904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.45 a.m. 12.0 noon—Hanover Castle Con-

cert. 2.0 p.m.—News. 2.15—Music.

2.15—Music.
3.0—Shipping; Markets.
3.25—Old Music for Flute, 'Cello, and Pfte.
4.0—Orchestra. Erna Kroll-Lange (Soprano) and Records. Talks in the intervals.
6.0—Liszt Music by Béla Böszörményi-Nagy (Pfte.). Fantasia on 'Weinen, Klagen.'' Jeux d'eaux à la Villa d'Este. Funérailles. Rakoczy March. Hungarian Rhapsody.
6.45—Weather; Shipping.
7.0—News.

Rakoczy March. Hungarian Rhapsody.
6.45—Weather; Shipping.
7.0—News.
7.10—Marches by a Military Band.
8.0—"African Wedding"—Play (Paetzmann).
9.0—"Tropical Impressions"—Records. Impressions from Brazil (Respighi). Argentine Song, La mariquita. Peruvian Song, Muchacha, Cuban Song, Habañera Flore (Rimac). Brazilian Song, Lenda do caboclo (Villa-Lobos). Bolivian Song, De blancatierra. Cuban Song, El manisero. Cuban Dance, Maxixe (Rimac). Oriental Dance (Glazunov). Indian Dragon Dance and Mogul Serenade. Persian Dance (Mussorgsky). Hindu Song (Rimsky-Korsakov). Arab Dance (Grieg). Festival in Bagdad from Scheherazade (Rimsky-Korsakov).
10.0—News.

10.0—News. 10.25—Report: Kiel Week, 1938. 10.30 p.m.-3.0 a.m. (Tuesday)— See Cologne.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. Also on Jaarsveld, 722 kc/s (415.4 m.); 17 kW. NCRV Programme. 7.40 a.m.—Bible Reading; Medita-tion; Records; at 9.10—Greet-

lion; received and received and received and received at 11.40-11.55—Police Messages.

12.10 p.m.—The Gooilanders.
1.40—Records; at 11.40-11.55—1.40—Records.

12.10 p.m.—The Gooilanders.

1.40—Records.

1.55—Alexandra Michaëli (Pfte.).

2.40—Talk: House Plants.

3.20—Records; Bible Reading.

4.25—Records.

4.55—For Children; Records.

6.10—Letter-Box; at 6.40—Police, Church, and Sports Notes.

7.25-7.40—Report.

7.45—News; S O S Messages.

7.55—Amersfoort Military Band, Conductor: v. d. Glas. Overture, "Maximilian Robespierre" (Litolff). Selection, "Alessandro Stradella" (Flotow). Potpourri of Sacred Songs (Lureman). Groet aan Assen (v. d. Glas). Norwegian Rhapsody (Lalo). Festival Anthem (Friedmann); at 8.40—Talk.

Talk.
9.40—News.
9.45—Dumky Trio (Dvořák) by the Amsterdam Trio.
10.25—Gym; Records.
11.30-11.40—Bible Reading.

HILVERSUM (No. 2)
995 kc/s (301.5 m.); 10 kW until
8.40 p.m.; 60 kW from 8.40

8.40 p.m.; 60 kW from 8.40 p.m.
VARA Programme.
7.40 a.m.—Records.
9.40—VPRO Religious Programme.
10.0—Recitations; Records.
11.10—Steyn (Organ).
12.25-1.25 p.m.—VARA Orchestra.
Conductor: de Groot.
1.40—Records.
3.50—Hetty Beck (Recitations).
3.10—Wins (Pfte.). Twelve Variations on "Das Waldmädchen" (Beethoven). Humores que (Dvořák). Prelude (Chopin). Records.
Bohemian Dances
(Smetana).
3.40—Jong (Organ).
4.40—For Children; Records.
5.40—The "Fantasia." Conductor:
Walis.

Walis.
6.10—Music Talk by Tiggers, with Records.

6.10—Music Talk by Tiggers, with Records.
6.45—Sports Talk; Records.
7.45—SOS Messages; News.
7.55—VARA Orchestra. Conductor: de Groot. Overture, "Abu Hassan" (Weber). Waltz (Tchaikovsky). Dance, "Peterchens Mondfahrt" (Schmalstich). Marche des petits soldats de plomb (Pierné). Entrée des petits faunes (Pierné). Entrée des petits faunes (Pierné). Minuet (Debussy): Scénes alsaciennes (Massenet). La boutique fantasque (Rossini-Respighi).
8.40—Yugoslav Folk Music.
9.10—Talk.
9.15—Ramblers Dance Band.
9.40—News.

9.15—Rambiers 2.1 9.40—News. 9.45—"Vindobona" Quartet, and Hofman (Tenor). 0.20—" Sweetness and Rhythm" 10.20—" Sweetness and Rhythm"
—Hofman (Tenor), v. Helvoirt
(Trumpet), Poppink (Saxophone)
and Kranenburg (Percussion),
10.40—Report: The International
Chess Tournament at Noord-

wijk. 10.45-11.40-Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.). ransmits at intervals from 7.0 a.m. 2.0 noon-2.0 p.m.—Preil's Ensemble, 30—For Women.

12.0 non-2.0 s.m. semble.
2.30—For Women.
2.40—Mendelssohn Songs—(Duets: Rosa and Svend Prahl) Sonn-tagsmorgen. Abendlied. Ich wollt' meine Lieb'. Herbstlied. Gruss. Maiglöckehen und die Blümelein. Das Aehrenfeld.
3.0—Julian Orchestra.
4.0—Programme from the Agricultural Exhibition at Bellahoj. Addresses by the Minister of Agriculture, Hr. K. Bording, and others.

others, 5,30—Wireless Notes, 5,40—Weather; Exchange; Mar-

5.40—Weather; Exchange; Markets.
5.50—Records.
6.15—Talk,
6.35—English Lessons.
7.0—Time; News; Talk.
8.0 — The Danish Song Play —
Concert by the Radio Orchestra,
Conductor: Grøndahl. Anna
Hagen, Käthe Bielenberg and
Paul Hansen (Songs). Commentary by Torben Krogh.
9.0—Report.
9.30—Sonata in F (Beethoven) by
Fessel (Violin) and Jensen (Pfte.).
9.55—News.

Fessel (Violin) and Jensen (Pfte.).
9,55—News.
10.15—Radio Orchestra, Conductor: Grendahl. Overture, "A Midsummer Night's Dream" (Mendelssohn). Piedmontese Dance (Sinigaglia). Two Movements from the Serenade for Strings (Tchaikovsky). L'apprenti sorcier (Dukas).
11.0—Records of Gigli (Tenor).
11.15 p.m.-12.30 a.m. (Tuesday) Preil's Dance Band; at 12.0 m't.—Chimes.

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

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

12.0 noon—See Hamburg.
2.0 p.m.—News; Talk; Music.
2.55-3.0—Exchange.
3.35—Fashion Hints; Periodicals.
4.0—Station Orchestra.
5.50—Talk: The Sports Doctor.
6.0—"On the Spree"—Humorous Scenes (Bartels).
6,50—Announcements.
7.0—News; Weather.
7.10—Schmitt-Walter (Baritone) and Leitner (Pfte.).
7.55—Records: Opera and Operetta Overtures; "The Daughter of the Regiment" (Donizetti), "The Hermit's Bell" (Maillart), "Die Felsenmühle" (Reissiger), "William Tell" (Rossini), "The Force of Destiny" (Verdi), "Donna Diana" (Reznicek),

"Der Opernball" (Heuberger), and "The Lovely Galatea"

and "The Lovely Galatea" (Suppé).
9.0—Topical.
9.15—" Münchhausen speaks the Truth"—a New Radio Ballad from Old Material (Plücker).
10.0—News: Weather; Sports.
10.20—Literary Talk: Walter Julius Bloem.
10.40—Light Orchestral.
12.0 m*t.-3.0 a.m. (Tuesday)—See Cologne.

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.3 m.). Transmits at intervals from 5.50 a.m. 12.0 noon—Fricke Band. 2.0 p.m.—Time; News; Records. 3.0—Exhibition Report: Women's

2.0 p.m.—Time; News; Records,
3.0—Exhibition Report: Women's
Work.
3.15—Music; Books; Review.
4.0—Sec Breslau; at 5.0—Markets.
6.0—Talk: The Visigoths in Spain,
6.20—Josef Hauschild (Baritone).
6.45—Topical.
7.0—News.
7.10—Workers' Choir.
8.0—"This will interest you!"—
Topical Review with Music.
10.0—News; Sports.
10.30 p.m.-3.0 a.m. (Tuesday)—
See Cologne.

LILLE (Radio PTT Nord)
1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.10 p.m.—Talk in English.
7.25—Record.
7.30—Radio Journal; Weather.
8.0 — "Le Commissaire aime la
Musique"—Farce (Lefebvre).
8.30 (also Limoges (PTT) and
Toulouse (PTT))—Concert of
Russian Music, from Paris.
National Orcheştra. Conductor:
Rosenthal. Symphony No. 6—the
Pathétique (Tchaikovsky). Overture
on Russian Themes (Prokofiev).
Antar (Rimsky-Korsakov). Pictures from an Exhibition (Mussorgsky-Ravel). After the Concert,
News.

LYONS (PTT)

648 kc/s (463 m.); 100 kW.

Transmits at intervals from 6.30 a.m.,
8.30 p.m.—"Les Saltimbanques"
(Ganne). After the Programme,
News (French, German).

MONTE CENERI

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon
9.15 p.m.—See Beromünster.
9.30-10.30—For Swiss Abroad. Part
I. Lugano Philharmonic. Conductor: Montanaro. March,
Salve Lugano (Heusser). Mazurka, Le campane del Ticino
(Zanardini). Part II. "The Two
Candidates" — One-Act Play
(Talamona). Part III. Lugano
Philharmonic (contd.). Potpourri
of Ticino Music, March, Milano
(Ponchielli).

MOSCOW

172 kc/s (1,744 m.); 500 kW.
12.30 p.m.—Talks in Italian.
5.0—Music; Literature; Talk.
9.30—News; Kremlin Chimes.
10.0—Talks (English, Hungarian).
12.0 m't.—Talks in Spanish.

MUNICH

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg.
1.0 p.m.—News; Records.
2.0—News; Exchange.
2.15—Orchestra from Vienna.
3.0-3.30—For Children.
4.0—Käte Jordan (Contralto), Guttendobler (Baritone), Rubasch (Pfte.).
4.40—Talk: Radio in Mines.
5.0—Time; Weather; Markets.
5.10—Tunes that conquered the World (Recorded).
6.45—Talk: Kayak-slalom Racing.
7.0—Time; News.
7.10—Dance Band, Sextet, etc.
8.40—Max Mell reads from his "Styrian Diary" (Recorded).
9.0—"Sommerlust" — Song Programme.
10.0—Time: News.

9.0—'' Sommeriust'' — Song Programme.

10.0—Time; News.

10.20—'' Along the Frontier''—
Bavarian Eastmark Culture Week
Programme (Recorded).

10.35 p.m.-3.0 a.m. (Tuesday)—
Programme from Cologne.

NAPLES GROUP

Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 7.45 a.m.
7.0 p.m.—Music; Topical Review.

7.20—See Rome Group.
7.40—Kramer Orchestra.
8.0-8.30—See Rome Group.
8.30—"Felicita Colombo"—ThreeAct Play (Adami).
10.0 (approx.)—Dance Music. 11.0—News. 11.15-11.55—Dance Music.

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.5 p.m.—Variety Concert.
5.35—Report.
6.0—Station Ensemble, Conductor:
Holst. Overture, "Eine Nacht in Venedig" (Strauss). Romanza Andaluza (Sarasate). Minuet (Paderewski). Narcissus (Nevin). Selection, "The Geisha" (Jones). Crescendo (Lasson). Norwegian Dance (Grieg). Parade (Lincke).
6.45—News; Economics.
7.35—Haram (Violin). Chaconne in D minor (Bacb). Rhapsody, La Tzigane (Ravel).
8.0—For Farmers.
8.25—Myklebust Ensemble. Czardas (Lindsay-Theimer). Chitarra Romana (di Lazzaro). Aimez-moi (Ball). Evocacion criolla (Cuesta).
8.45—Reading.
8.45—Reading.
8.50—Maria Raidl (Songs).
9.10—Review of Foreign Affairs.
9.40—News; Topical Talk.
10.15-10.45—Russian Folk Dances—Oslo Balalaika Band. Conductor:
Arseniev.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.

Transmits at intervals from 6.30 a.m.

7.0 p.m.—Music Review; Pierné
Music.

7.20—Records.

7.30—Radio Journal; Weather.

8.0—Serre ('Cello) and Ady Leyvastre (Pfte.). Sonata in G (Handel). Sonata (Tansmann).

8.30—Sec Lyons (PTT).

10.30—Records.

11.0-11.15—News; Weather.

PARIS (Poste Parisien)'
959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 7.10 a.m.
5.0 p.m.—Cabaret.
6.0—News; Exchange; Records.
6.30—Poems (Maeterlinck); Records.

6.30—Poems (Macterlinck); Records.
6.55—Talk; Records.
7.5—Sports; Amusements; Records.
7.5—Excerpts, "La Poule", (Christiné).
8.0—Topical Talk.
8.10—Jean Sablon.
8.25—Guida Neapolitan Orchestra.
9.5—Max Regnier and Company.
10.0—News; Records.
11.0—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
4.0 p.m.—Messe basse pour les
défunts (Vierne) by Christine
Comélie (Organ) from the Schola

défunts (Vietne) by Christine
Cantorum.

4.30—Reading (Prévost).
4.45—Lucienne Astruc (Songs).
5.0—Talk: Greece.
5.15—Couret (Songs).
5.30—Dance Records.
5.37—For Gardeners.
5.45—Notes; Art Review; Talks.
6.30—Pierre Kunc Music—Talk by
Paul le Flem, with Simone
Pénau (Songs), Nicole Rollet
(Pfte.) and Maurice Vieux (Viola).
Pfte.: Excerpts, Le jardin
d'automne. Song Cycle, La
chanson des bois. Movement
from the Viola Sonata.
7.0—Radio Journal; Weather.
8.0—Dance Records.
8.15—Chamber Music. Radio-Paris
Quartet, Lucette Descaves (Pfte.)
and Marie—Thérèse Gauley
(Songs). Pfte.: Two Rhapsodies
(Brahms). Songs (Bach, Schubert). Sonatina for two Violins
(Rosenthal). Songs (Debussy,
Roussel). Quartet (Milhaud).
9.15—See Prague.
9.55—Interval.
10.10—Concert from the Wallenstein Gardens, Prague. Part II:
Zelenka Music by the Czech
Philharmonic. Conductor: jirak.
Folia, from the Overture in F.
Il contento, from the Caprice in
G. Villanella. Adagio and Fugue,
"Hypocondrie," Furibondo, from
the Caprice in G, Caprice in A.
11.0—News; Weather.
11.15—Plays in Esperanto: (a)
"Rozalio" (Rosalie) — One-Act
Play (Maurey; trans, Le Brun);
(b) "Nokta Ekspedicio" (Exprofesseur Forgesulo)—Lightning
Sketch (Eva Julien).

MONDAY (June 20)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes; Records.
6.40—Time; News; Gym; Records.
8.0-8.45—Time; News; Records.
9.45—Programmes; Records.
10.45—Reading; Records.
11.45—Markets; Exchange.
12.0 noon—Talk; Records.
11.0 p.m.—Time; News; Exchange.
13.0—Christiane Gaudel (Songs).
1.46—Records; Programmes.
2.5—"Un dejeuner d'amoureux"—One-Act Play (Birabeau).
2.30—Exchange; Markets.
2.45—Jazz Music by Dominique Jeanès (Pfte.).
3.0—Madeleine Lebergy (Songs).
3.15—Talk: Poets' Muses.
3.30—Talk: Lord Londonderry.
3.45—Exchange; Markets.
4.0—Marthe Darvys (Songs),
4.15—Mile Bailly-Talazac (Pfte.).
4.30—Week's Anniversaries.
4.40—Talk: Care of the Nails.
4.45—Markets: Exchange.
5.0—Cantrelle Orchestra. Overture,
"William Tell" (Rossini). Chant sans paroles (Tchaikovsky). Dance of the Hours, "La Gioconda" (Ponchielli). La chaise à porteurs (Chaminade). Waltz (Fahrbach).
Ballet, "La Source" (Delibes).



Exclusive "World-Radio" Picture Mlle. Madeleine Lebergy, who will give a song recital at Radio-Paris (3 p.m.)

Two Hungarian Dances (Brahms). Entr'acte, "Don Quixote" (Massenet). Polish Dance (Scharvenka). March, "The Prophet" (Meyer-

March, "The Prophet" (Meyerbeer).
6.0—Educational.
6.30—Racing; Art Talks.
6.58—Programmes; Educational.
7.30—Talk: England.
7.45—Review by Paul Reboux.
7.50—Talk: Determination of Sex.
7.59—Time; Foreign Affairs.
8.0—"Samson and Delilah" (Saint-Saëns), and Alexander the Great—Ballet (Gaubert) from the Opéra. In the interval—News; Press Review; Review by Pierre Scize.

Scize. 11.50 (approx.)—Programmes.

Scize.

11.50 (approx.)—Programmes.

PRAGUE
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
4.15 p.m.—Violin Concerto in A
minor (Dvořák) (Recorded).
4.45—Talk: Careers.
5.0—Light Music (Recorded).
5.30—Sokol Gymnastics.
6.0—Record; Talks.
6.20—FOC Orchestra.
7.0—News; Sokol Notes.
7.30 — Slovak Song Potpourri
(Tvrdy) (Recorded).
7.50—See Brno.
8.5—Sonatina in G for Violin and
Pite. (Dvořák), by Peška and
Kredba.
8.25—See Brno.
9.15 — Baroque Music of the
Seventeenth and Eighteenth
Centuries from Wallenstein Gardens. Czech Philharmonic, Conductor: Jirak. Sonata con altre
arie per la chiesa e tabula, for
Strings and Harpsichord (Pezel).
Sonata for Trumpet, Violin,
Trombone. Harpsichord (Pezel).

RADIO EIREANN

RADIO EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.

1.30 p.m.—Records.

2.30-3.0—For Schools.

5.30—Among the Children.

6.0—Records of Georges Thill (Tenor), Jacques Thibaud (Violin) and Alfred Cortot (Pfte.).

6.35—Irish News Feature.

6.45—News.

7.0—Wolfe Tone Anniversary: His Capture and Trial, dramatised by James S. Dunne.

7.30—Irish Radio Orchestra. Olive Briggs (Contralto).

8.20—Residences of the Kings of Ireland: Eamain Macha agus Aileach—Muirt O'Dubhghaill.

8.35—Programme from Castlefin, Co. Donegal — Artists: Afric McGinley, John Kyle, Jack Collins, Thomas McNulty, O'Flaherty Memorial Pipe Band, and the Finnian Ceilidhe Band of Castlefin and Willie Doherty (Comedian).

9.30—Variety Programme.

10.30—News; National Anthem.

RADIO-NORMANDIE

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.

7.10 a.m.—Call.

7.15—Press Review; News.

7.45—Physical Exercises.

8.0—Music in the Morning.

8.15—Time; Browning and Starr.

8.30—Tom and. Benjy.

8.45—Cinema Organ Medley.

9.0—Time; The Open Road.

9.15—Dream Waltzes.

9.30—Musical Potpourri.

9.45—Hutch—Romantic Singer.

10.0—Time; Tunes from the Talkies.

10.30—The Musical Mirror.

10.45—Let's Go Places.

11.30—Orchestra. Ronde burlesque (Schmitt). Ballet, "Le Cid" (Massenet).

12.0 noon—Concert.

12.30 p.m.—News; Concert.

2.0—Light Music.

2.15—Listen after Lunch—Arthur Young, Wilfrid Thomas.

2.30—The Nimble Needle.

2.45—The Songs we know them by.

3.0—Light Music.

2.30—The Nimble Needle.
2.45—The Songs we know them by.
3.0—Light Music.
3.30—Band Rhythm.
4.0—The Pleasant Quarter Hour.
4.15—What's On.
4.30—Advance Film News; Music.
4.45—Variety.
5.15—Bohemian Holiday.
5.30—For Boys and Girls.
5.45—The Music of Cole Porter.
6.0—Markets; Children's Corner.
6.45—Talk; News; Racing.
7.0—Chansonnettes.
7.30—News; Sound News.
8.0—Variety.
9.0—Variety Concert.
11.0—Café Concert.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Tuesday)—Time; Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
6.45 p.m.—News in English.
7.0—Radio Journal; Weather.
7.30—To be announced.
8.9—News; Records.
8.10—Talk: Social Insurance.
8.30—"Les Femmes savantes"—
Play in Verse (Molière) from the
Comédie Française, Paris.
10.30—News; Weather.

ROME GROUP

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15 — Ricci (Baritone). Arias, "Zaza" (Leoncavallo), "Rigoletto" (Verdi), "Othello" (Verdi), "Lucia di Lammermoor" (Donizetti) and "Dinorah" (Meyerbeer). 5.5-6.5—Weather; Poems. 7.0—Talk (French). 7.10—Royal Geographical Society's Report. 7.20—German Lesson. 7.40—Records. 8.0—News; Talk; Music. 8.30 (Palermo and Naples No. 2 only)—Light Music. 9.10—Song Potpourri. 9.30—Symphony Concert from the Basilica di Massenzio. Conductor: Marinuzzi. In the interval, Radio Notes.

MONDAY (June 20)

11.0 (approx.)—News. 11.15 (approx.)-11.55 — Dance

SAARBRÜCKEN

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.),
Transmits at intervals from 6.0 a.m.
12.0 noom—See Hamburg.
2.0 p.m.—News.
2.15-3.0—See Berlin.
4.0—See Stuttgart.
5.45—Book Review.
6.0—Records: Sonatas and Waltzes.
7.0—Time; News; Records.
7.30—Topical Talk.
8.0—Orchestra. Else Blank and Melitta Wittenbecher (Sogranos),
Leiseifer (Tenor), Karolus (Baritone).

Leiseifer (Tenor), Marche (1908).

9.10 — "Die Freier" — Comedy (Eichendorff), 10.0—Time; News; Music.

10.30 p.m.-3.0 a.m. (Tuesday)—See Cologne.

SOTTENS

673 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.29-1.45 p.m.—Time; News;

12.29-1.45 p.m.—Time; News; Records.
5.0-6.0—See Beromünster.
6.0—Records.
6.30—For Chess Players.
6.50—Talk: Russian Opera.
7.15—Micro-Magazine.
7.59—News; Weather.
8.0—Light Music by the Radio-Geneva Ensemble. Marguerite de Reding (Soprano).
8.20—Talk: Roses.
8.40—Light Music (contd.).
9.15—See Beromünster.
9.30-10.30—Monte Ceneri.
10.30-11.0 — International Labour Office Report.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.20 a.m. 5.5 p.m.—Accordion Trio. 5.30—Talk by Oscar Ralf: Music of the Jesuits. 6.0—Records.

7.0—News; Weather; Topical. 7.30 (from Göteborg) — Liseberg Orchestra. Conductor: Mayr-

7.30 (from Goteborg) — Liseberg Orchestra. Conductor: Mayrhauser. 8.25—Talk: Swedes abroad. 8.45—Münz (Pfte.). Organ Chorals (Bach - Busoni). Barcarolle (Chopin). Waltzes (Chopin). Pavane pour une Infante défunte (Ravel). Serenade (Rachmaninoff). Pastorale (Rodrigo). Waltz (Delibes-Dohnányi). 9.20—Youth—Musical Suite. 10.0—News; Weather. 10.15-11.0 — Waldimir's Orchestra. Overture, "Berliner Luft" (Lincke). Tales from the Vienna Woods (Strauss). Souvenir (Drdla). Selection, "Mam'zelle Nitouche" (Hervé). Stephanic Gavotte (Czibulka). Mississippi Suite (Grofé).

STRASBOURG

859 kc/s (349.2 m.); 100 kW Transmits at intervals from 6.30 a.m. 5.15 p.m.—Orchestra. Conductor: Bour. Overture (Loehr), Neapoli-tan Nights (Esteban-Marti). Wine hour. Overther (Loent). Neapourtan Nights (Esteban-Marti). Wine, Woman and Song (Strauss). The golden Musical-Box (Krome). Selection, "Madame Chrysanthème" (Messager). Two Russian Gipsy Songs (Petroy). Marche des esclaves (Ganne)... 6.0—Economic and Social Notes. 6.30—See Paris (PTT). 7.0—News; Weather; Records. 8.0—News (German). 8.15—Local News; Weather. 8.30 (also Nice-Côte d'Azur and Rennes-Bretagne)—"Les Femmes savantes"—Five-Act Play in Verse (Molière) from the Comédie Française, Paris. 10.30—News (French, German).

STUTTGART

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.45 a.m. 12.0 noon—See Leipzig. 2.0-3.0 p.m.—Records. 4.0—Orchestra. 6.0—Records. 6.30—Topical. 7.0—News; Cultural Calendar. 7.15—Mannheim Light Orchestra.

10.0— 10.30— 12.0

0 — Orchestra, Soprano, Píte.
Duo, Folk-Music Ensemble, etc.
1.0 — Time; News; Sports.
1.30 — See Cologne.
1.20 m'\$\cup\$.-3.0 a.m. (Tuesday) —
Serenade. Part I, German
Folk-Music. Part II, Orchestral
Music (Recorded) Overture,
"Genoveva" (Schumann). Violin Concerto in D (Brahms).
Fourth Symphony (Bruckner).

TOULOUSE (Radio-Toulouse

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m.

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.0 p.m.—News; Chansonnettes.
6.40—Marches.
6.55—News; Sports Notes.
7.15—Operetta Music. Excerpts,
"The Circus Princess" (Kalman), "The Count of Luxembourg" (Lehár), "The Land of
Smiles" (Lehár), and "Au soleil
de Marseilles" (Sellers).
7.25—Variety,
7.45—Light Music; News.
8.0—Variety; Talk.
8.45—Light Music; Talk.
9.15—"Elle"—Fantasy.
9.30—Light Music.
10.0—News; Dance Music.
10.9—Sellen Music.
11.45—Chansonnettes.
11.45—Light Music.
11.45—Dance Music.
11.45—Dance Music.
11.45—Dance Music.
11.45—Dance Music.
11.45—Dance Music.

TURIN GROUP

Turin (No. 1), 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.

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

9.30 Bucharest; 9.40, Oslo; 10.0, Brussels, German stations, Prague, Stockholm; 10.25, Beromünster; 10.30, Radio Eireann, Paris (PTT); 10.45, Radio-Paris; 11.0, Italian stations, Warsaw; 12.5, Budapest 1.

5.15-5.50—Sirio Piovesan (Violin).
Suite in A (Vivaldi-Busch).
Siciliana (Paradisi). Ridda dei
folletti (Bazzani). Two Toccatas
(Piovesan).
7.10-8.30—See Rome Group; at
7.19 (Rome No. 2 only)—News
in English.
8.30—Light and Dance Music; at
8.36 (Milan No. 1, Rome No. 2,
and Bolzano)—News and Italian
Lesson in German.
9.0—See Rome Group.
9.10—June Radio Propaganda:
Variety.

9.10—June Radio Propaganda: Variety. 10.10—Talk. 10.20—Pictures from an Exhibition (Mussorgsky) by Lidia Zambelli (Pfte.). 11.0—News; Weather. 11.15-11.55—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday, Transmits at intervals from 6.0 a.m. 12.0 noon—See Hamburg.

2.0 p.m.—News; Orchestra

3.0—News;
3.30—Jenny Jungbauer (Soprano).
4.0 — See Frankfurt; at 5.0 — Reading.
6.0—fitterview: The KdF Tours.

Reading.
6.0—Therview: The KdF Tours.
6.30—Topical.
7.0—News; Weather.
7.10—Quintet in C major, Op. 163 (Schubert).
8.0—See Stuttgart.
10.0—News.
10.0—News.
10.80—Light Viennese Music by the Station Orchestra. Conductor: Schönherr. Grete Deditsch (Chansons), etc. March (Hans Wilhelm). Ein Walzer aus Wien (Fritz German). Two Songs (Walde). Bassoon: Concert Polka: Onkelchen übt Fagott (Gebauer). Duets: (a) Das ist mein Wien (Franz Wagner), (b) Die Liebe kommt vom Märchenland (Lincke). Piccolo: Titilli (Ganglberger). Songs: (a) Indisches Kinderlied (Kusche), (b) Halloh, Taxi (Kinzius). Overture, "Die Landstreicher" (Ziehrer). Trumpet: March (Stilp). Duets: (a) Old Viennese Song Fantasia (Scheimbauer), (b) Nur an G'sang und an Klang (Schrammel). Feuerfest (Strauss).

Gallop, Pfeffer und Salz (Pauch).
Songs: (a) Weinlied (Walde),
(b) Chanson von der Liebe
(Kinzius), Violin: Grotesque
(Rosner), March (Mosheimer).
Duet: Vienna, Woman, Wine.
Potpourri (Hruby). Song: In
den Wienerwald geht man am
besten zu zweit (Seifert). March
(Schemel).

12.0 m't.-3.0 a.m. (Tuesday) —
See Cologne.

WARSAW

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m.

Cracow, etc. See Sunday.
Transmits at intervals from 6.15 a.m.
4.0 p.m. (from Cracow)—Johann
Strauss Operetta Music and
Waltzes. Orchestra, Conductor:
Herman, March, "The Gipsy
Baron." Overture, "The
Queen's Kerchief." Selection,
"The Gipsy Baron." Polka,
"Der lustige Krieg." Waltz,
Seid umschlungen Millionen.
Czardas, "Die Fledermaus."
Overture, "Methusclah."
4.45 (from Cracow)—Reading.
5.0—Dance Music by the Station
Orchestra. Programme Notes.
6.10 — Zebeyda-Sumicki (Songs).
Caro mio ben (Giordano). Fuyez,
zephirs (Donaudy). Under the
sky (Zandonai). Liebesbotschaft
(Schubert). Des Knaben Wunderhorn (Schubert). Lilacs
(Rachmaninoff). Oriental Romance (Rimsky-Korsakov). Song
(Blejchman).
6.30—For Sportsmen.

TUESDAY June 21

National

National

For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45 (D)—Shopping Talk.
11.5 (D)—Records.
11.25 (D)—History for Schools.
11.25 (D)—History for Schools.
11.45 (D)—Facords.
11.45 (D)—Facords.
12.45 (D)—Facords.
12.45 (D)—Fakman's Apache Band, with Tessa Deane.
2.5 (D)—For Schools.
4.0 (D)—Records.
5.0—All-England Lawn Tennis Championships: account of today's play by F. H. Grisewood.
5.10—Records.
5.30—Light Orchestra of the EIAR: Alba Anzellotti (Soprano); Enzo Aita (Tenor); Renato Giuseppini (Guitar), from Rome.
6.0—The First News.
6.25—Cyril Smith (Pftc.)—Rachmaninoff.
7.0—BBC Military Band.
7.35—The Poet and the Public: Humphrey Jennings.
8.0 — "The Silver Spoon," a comedy with music by Henrik Ege: Cast includes Edwin Ellis, Paddy Browne, Reggie Purdell, Davy Burnaby, Mary O'Farrell, Joan Collier, Ewart Scott, Bruce Carfax, 9.0—Third News.
9.20—"The Battle of Neuve Chapelle:" W. L. Andrews.
9.40—Fred Hartley's Sextet.
10.30—Chamber Concert by The Griller String Quartet: Two Fantasias in four parts—Nos. 1 and 2 (Purcell); Quartet No. 1, in G (Bax).
11.15 — Grosvenor House Dance Band. 11.30-12.0—Dance Records.

London Regional

For Time Signals, see Monday. 10.15-10.45 a.m.—National. 10.45—Joseph Seal (Cinema Organ). 11.30—BBC N. Ireland Orchestra Joseph McAlpine (Baritone). 12.30 p.m.—Ballad Concert.

1.0—" Up to London:" Evelyn Waugh, 1.15—Records.
2.0 — Jane Minton and Robert Austin (Pftes.), 2.20—Records.
2.30—Sale of Stamps from Harmer's Sale Rooms.
2.50—H.M. Scots Guards Band.
3.45—" The Englishman Abroad:" Dame Ethel Smyth.
4.0—International Horse Show: King George V Cup, from Olympia.
5.0—The Children's Hour.
6.0—" Martha," an opera by Friedrich von Flotow, with Lorely Dyer, Freda Townson, Frank Titterton, Stuart Robertson, Dick Francis.
7.0—The Second News.
7.20—Regional Bulletin for Farmers.
7.30—" The Pig and Whistle," with Ernest Butcher, Muriel George, Charles Wreford, Sidney Burchall, Charles Penrose.
8.0—Seventeenth-Century Court Leet, from The Bayle, Bridlington.
8.20—BBC Orchestra, conducted by

ton.

3.20—BBC Orchestra, conducted by Clarence Raybould.

9.20—Variety from The Hippodrome, Southampton.

10.0—News Summary.

10.25 — Grosvenor House Dance Band, 11.30—Records.

11.50-12.0—Late News Summary.

Midland

10.15 a.m.-5.0 p.m.—Regional, 5.0—The Children's Hour. 6.0—Regional. 7.20—Midland Announcements. 7.30—Records. 8.0— "Cotswold Cloth," from

8.0 — "Cotsword Croth,
Stroud.
8.35—Marie Hall (Violin); Philip
Taylor (Organ).
9.20-12.0—Regional.

Northern

10.15 a.m.-4.0 p.m.—Regional. 4.0—Evensong from York Minster. 4.45—Records. 5.0-The Children's Hour. 6.0-Regional:

7.20 — Northern Bulletin Farmers.
7.30-12.0—Regional.

Western National. Western

10.45 a.m.-5.0 p.m.—National.
5.0—The Children's Hour.
6.0—Regional.
7.20—Western Announcements.
7.30—"Up to London: "Evelyr Waugh.
7.45—Winifred Davey (Pfte.).
8.0—Midland.
9.20-10.25—Regional.

Welsh

Welsh
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20—Welsh Announcements.
7.30—Welsh News.
7.45—Helyntion Eisteddfodol.
8.20—Regional.
9.20—Cor Meibion Elidir: Henryd Jones (Baritone).
10.0-12.0—Regional.

N. Ireland 10.15 a.m.-5.0 p.m.—Regional. 5.0—The Children's Hour.

10.13 h.m. 10.10 h.m. 10.10 h.m. 10.0 h.m. 10.

10.0-12.0—Regional.

Scottish

10.15-10.45 a.m.—National.
10.45—Records.
11.0—For Schools.
11.25 a.m.-2.0 p.m.—National.
2.0—Herring Fishing Bulletin.
2.5—For Schools.
3.0—Helen McMaster (Contralto);
Sampson D. Stevenson (Tenor).
3.20—Records.
3.45—Gaelic Songs: Alexander MacDonald (Tenor).
4.0-5.0—National.
5.0—The Children's Hour.
6.0—Regional.
7.20—Scottish Announcements.
7.30—Regional.
9.20—United Services Display, from Ibrox Stadium, Glasgow.
9.35—Excerpt from Harry Kemp's Summer Show.
10.0-12.0—Regional.

Hours of Transmission in British Summer Time.

BERLIN

BERLIN

841 kc/s (356.7 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon-2.0 p.m.—See Munich.
2.0—News; Opera Preview.
3.0—Raue Band; at 3.15—Exchange.
4.0—See Königsberg.
6.0—Bund Band.
7.0—New; Records.
7.45—Evening Review.
8.0—"Zille Martha"—Comedy on Berlin life (Huchel); Music by Dombrowski.
9.0—"Magic Voices"—Records.
Helge Roswaenge: Arias, "Il Seraglio" (Mozart), "Oberon" (Weber). Gertrud Bindernagel: Aria, "Oberon" (Weber). Pfte. Intermezzo (Niemann). Miliza Korjus: Aria, "The Tsar's Bride" (Rimsky - Korsakov). Tancredi Pasero: Aria, "Sicilian Vespers" (Verdi). Orchestral Intermezzo: Dances, "The Damnation of Faust" (Berlioz). Margherita Perras and Margarethe Klose: Duet, "Aida" (Verdi). Margarethe Teschemacher, Helge Roswaenge and Wilhelm Strienz: Church Scene, "Faust" (Gounod).
10.0—News; Sports.
10.30—See Hamburg.
12.0 m"t.-3.0 a.m. (Wednesday)—See Vienna.

BEROMUNSTER

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.), 6.18-6.35 a.m.—Gym. 12.0 noon-1.45 p.m.—Records; News. 4.30—Records: Music of Paris. 5.0-6.0—See Sottens. 4.30—Records: Music of Paris.
5.0-6.0—See Sottens.
6.0—Records: Old Music; Talk.
7.0—Josef Reinhart reads.
7.25—League of Nations Talk.
7.40—Announcements; News.
7.55—Homeland Programme: The
Napf.
8.55—Scandinavian Music — Radio
Orchestra. Conductor: Bernhard.

hard. 9.35—Three 9.35—Three Songs for Vocal Quartet and Pfte. 9.30—Reger Chamber Music, 10.25-10.30—Announcements, BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. 1,004 kc/s (298.8 m.); 13.5 kW.
Transmits at intervals from 6.0 a.m.
5.40 p.m.—Simek (Violin); Macuzinski (Pfte.). Sonatina in Eminor (Willner). Cradle Song (Krawc). Burlesque (Kapralova).
6.0 — Hungarian Transmission: Talk; Dohnanyi Pfte. Music played by Lily Stockinger; Discussion.

cussion.
6.45—News in German.
7.0-7.30—See Prague.
7.30—Folk Songs of Silesia and Hlučin, by Svoboda School Choir.
7.55—Educational Discussion.
8.5-10.15—See Prague.
10.15-11.0 — News (Hungarian);
Records cussion.

BRESLAU

BRESLAU

950 kc/s (315.8 m.); 100 kW.
Relayed by Gleiwitz and Görlitz,
1,231 kc/s (243.7 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon 2.0 p.m. — Fierke
Quintet,
2.0—News; Exchange,
2.15-3.0—See Hamburg,
3.30—Gym for Young People,
4.0—Orchestra, Violin, Clarinet,
Pfte., 'Cello; at 5.0—Books,
6.0 — Readings; Talk; Programmes.

6.0 — Readings; grammes.
7.10-8.30—See Deutschlandsender.
8.30—See Cologne:
9.0—News; Topical Talk.
9.35—Fierke Quintet.
10.0—News; Press Review.
10.35—"Hill Fires"—Summer Solstice Play (Hora); Music by Sczuka.

Sczuka.

11.30—Midsummer Music—Choir and Orchestra. Conductor: and Orchestra, Conductor; Wirth.

12.0 m't.-3.0 a.m. (Wednesday)—
See Vienna.

BRNO

922 kc/s (325.4 m.); 32 kW. 922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 5.40 p.m.—Anna Skalicka (Pfte.). Scherzos (Mendelssohn). Berceuse (Tchaikovsky). Tarantella (Rubinstein). Cactus (Juon). 6.0—Talks in German; Records. 6.45—News in German. 7.0-10.15—See Prague. 10.15–11.0—Records.

BRUSSELS (No. 1) 620 kc/s (483.9 m.); 15 kW. 6.30-9.5 a.m.—Records; Gym;

News.
12.0 noon—Records: Light Music.
12.30 p.m.,—Weather; Shipping.
12.35—Salon Orchestra; In the interval, Bauwens (Diseur).
1.0—News.
1.10—Viennese Music—Salon Orchestra

1.0—News.

1.10 — Viennese Music — Sanda Orchestra.

1.30—Records: Violin Concerto in D minor (Schumann).

2.0-2.3—Art Notes.

4.55—News.

5.0—Augusta Holmes Songs by Mme Stradel.

5.15—Santi Valenti (Violin). I Palpiti (Paganini). Jota (Falla),

5.30—For Children.

5.—Literary Records. Super Records.

Palpiti (Paganini). Jota (Falla).
5.30—For Children.
6.5—Literary Records.
6.15—Palestrina Records. Super Flumina. Improperia. Benedictus. Secular Madrigals.
6.30—Blues and Waltzes—Brenders Jazz Band.
7.0—Talk: The Eupen Corpus Christi Procession.
7.15—"La voix" (Rainer Maria Rilke) to Music of Debussy.
7.30—News.
8.0—Wagner Concert—I.N.R. Symphony Orchestra. Conductor: Franz André, Tilkin-Servais (Songs). Overture, "The Flying Dutchman." Two Arias from "Tannhäuser." Excerpts, "Parsifal" and "The Valkyrie."
9.0—La salle d'attente (Claudel).
9.15—I.N.R. Symphony Orchestra. Conductor: Franz André; Valenti (Violin). Suite in F (Roussel). Violin and Orchestra: Tzigane (Ravel). Le Tombeau de Couperin (Ravel).
10.0—News; Records.
10.55-11.0—Christus vincit (Liszt).

BRUSSELS (No. 2) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m. — Records; Gym;

News.
12.0 noon—Records.
12.31 p.m.—Radio Orchestra.
1.0—News; Shipping.
1.10—Radio Orchestra (contd.):
1.30-2.0—Records.

1.30-2.0—Records.
4.55—News.
5.0—Old Successes—Records.
5.45—For Children.
6.30—Records.
6.45—The Belgian Labour Federation—Talk.
7.0—Records.
7.30—News; Art Notes.
8.0—Concert—Radio Orchestra.
Conductor: Douliez, Lia Martin (Soprano), Pierre Boeyen (Humorous Songs) and The Four Rhythm Aces (Songs). Overture, "Semiramide" (Rossini). Humorous Songs. Valse des bérets (Luigini). Songs. Legend (Dvořák). Soprano Songs. Extase (Ganne). Songs. Wiener Bon-Bons (Strauss). In the interval, "Speculanjen"—Play (Schurmann).

mann). 10.0—News. 10.10-11.0—Records.

BUCHAREST

BUCHAREST

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

Transmits at intervals from 5.30 a.m.
6.0 p.m.—Time; Weather; Letter-

6.15—Respighi Records.

7.0—Talk.
7.15—Dora Massini and Stroesco 15—55. 15—Symphony Concert — Radio Orchestra, Conductor: Rogalsky

7.45 — Symphony Concert Orchestra. Conductor: 1 8.30—Talk. 8.45—Concert (contd.). 9.30—News; Sports. 9.45—Concert on Records. 10.45—News (German, En

English).

BUDAPEST

BUDAPEST

546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.5 p.m. — Thoma (Pfte.), Eta
Markó (Songs); at 12.30—News.
1.30—Lakatos Cigány Band.
2.35—News.
4.10—For Women.
5.0—József Deér.
5.30—Station Band.
6.30—Zsuzsa Thury.
7.0—Farkas Cigány Band. Lantos
(Tárogató).
8.0—News.
8.30 — Rimsky - Korsakov Music.
Opera Orchestra. Conductor:
Rajter. Overture on Russian
Themes. Overture, "Antar."
Spanish Caprice. Suite, "The
Tale of Tsar Saltan." The Flight
of the Bumble Bee.
9.45—Dance Records.
11.0—News (German, Italian).
11.10—Weidinger Jazz Band.
12.5 a.m. (Wednesday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon-2.0 p.m.—See Munich. 2.0—News; Melodies. 3.0—Guessing Competition;

Economics.
0—Orchestra; at 5.0-5.30—For

Boys. 30—English Conversation.

Boys.
6.30—English Conversation.
6.50—Snapshots; News.
7.10—Report: The Breslau Gymnastics Festival.
7.15—Italian Opera Music, Station Orchestra. Conductor: Kühn.
Kläre Hansen-Grütteften (Soprano); Philipp Rasp (Tenor); Overture, "William Tell" (Rossini). Arias and Ballet Music, "Il Trovatore" (Verdi). Aria, "La Bohème" (Puccini). Intermezzo, "I Pagliacci" (Leoncavallo). Duet, "Cavalleria rusticana" (Mascagni). Intermezzo, "Cavalleria rusticana" (Mascagni). Intermezzo, "Cavalleria rusticana" (Mascagni). Overture, "The Daughter of the Regiment" (Donizetti).

Daughter of the Regiment" (Donizetti).
8.10—Film Notes.
8.30—Gala Dance Evening Eysoldt
Band, Ralph Siegel (Songs), the
Six Merry Singers, Instrumental
Quartet, Jansen and Arzig (Ac-



Fräulein Flora Berthold, who takes the principal part in the comedy of Berlin life which that station broadcasts at 8 p.m

cordion Duo), Beuster (Bass) and Engels (Guitar); at 10.0-10.15— News. 12.0 m't.-3.0 a.m. (Wednesday)-See Vienna.

DEUTSCHLANDSENDER 191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 12.0 noon—See Stuttgart.

Transmits at intervals from 5.0 a.m.
12.0 noon—See Stuttgart.
1.45 p.m.—News.
2.0—Jäger Band and Records.
3.0—Weather; Exchange.
3.15—Records: South American Songs to the Lute.
3.35—Books; Programmes.
4.0—Dobrindt Band; at 5.0—Reading.
6.0—Pfte, Sonata in F sharp minor (Brahms), by Hans Beltz.
6.25—Talk: With the KdF to Italy.
6.40—Trautonium; Pfte.
6.55—Genealogy.
7.0—Motto; News.
7.10—"Forest Joys"—Sequence (von Recklinghausen); Music by Manfred.
8.10—Records.
8.30-10.0—See Cologne; at 9.0-9.15—Political Press Review.
10.0—News; Sports.
11.0—Dance Music from Cologne,
12.0 n"t.-2.0 a.m. (Wednesday)—See Frankfurt.

FRANKFURT

FRANKFURT

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m. 12.0 noon—Concert from Zwing-

1ransmits at intervals from 5.0 a.m.
12.0 noon—Concert from Zwingenberg.
1.0 p.m.—Time; News.
1.15—Music from Munich,
2.0—Time; News, Records.
3.0-3.30 Hans Zielowsky Music.
Grete Zoll (Soprano), Schmidt
(Flute) and Schröter (Pfte.).
4.0—Station Orchestra. Toni Schuch
(Contralto); Storck (Bass); Rose
Stein (Harp).
6.0—Topical Review.
6.30—Hitler Youth Choir.
7.0—Time; News; Weather.
7.10—Opera Records. Overture,
"Alfonso und Estrella" (Schubert). Aria, "Il Seraglio" (Mozart). Song with Chorus, Nun
ist's vollbracht (Lortzing). Duet,
Das süsse Lied verhallt (Wagner).

Duet, "The Force of Destiny" (Verdi). Habanera, "Carmen" (Bizet). Duet, "Madame Butterfly" (Puccini). Trio, "Der Rosenkavalier" (Strauss). Duet, "Die Brautwahl" (Busoni). March and Scherzo, "The Loves of the Three Oranges" (Prokofiev) fiev).

0—Military Band. Conductor

8.0—Military Band. Conductor:
Braum.
9.0—Summer Solstice Festival by
Hitler Youth.
10.10—Time; News; Sports.
10.15—The Rally of the Old Guard
at Trier.
10.35—Political Press Review.
10.50—Music from Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—
Serenade (Recorded). Part 1:
Symphonic Poem, Les Préludes
(Liszt). Violin Concerto in D
(Beethoven). Part II: "The
Magic Flute" (Mozart).

HAMBURG
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.
1.0 p.m.—Weather Review.
1.15—Music from Munich.
2.0—News

1.15—Music from Munich.
2.0—News.
2.15—Musical Variety.
3.0—Shipping; Markets; Records.
4.0—Light Music, Gaa Quintet;
Women's Trio, Gregor (Organ).
In the interval, Book Talk,
5.10—Musio from Deutschlandsender.

5.10—Musto sender. 6.0—"The River from Source to Mouth" — Dialect Sequence (Andresen). Male Voice Choir and Quartet, Singers and

Speakers. 6.45—Weather; Harbour Notes.

6.45—Weatner;
7.0—News.
7.10—See Deutschlandsender.
8.9—Topical Review.
8.10—Light Classical Music Station Orchestra. Conductor: Secker. In the interval, "Heiter die Kunst?"—One-Act Play (Alke).

Orenes...
In the intervat,
Kunst "—One-Act Play (Aug.
10.0—News.
10.25—Report: Kiel Weck 1938.
10.30—Light and Dance Music.
Diederich Band; Women's Trio,
Gertrud Schnitzer (Soprano),
Jakschtat (Baritone).
12.0 m't.-3.0 a.m. (Wednesday)—
See Vienna.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW
until 8.40 p.m.; 150 kW from
8.40 p.m. Also on Jaarsveld, 722
kc/s (415.4 m.); 17 kW.
KRO Programme.
7.40-8.55 a.m.—Records,
9.40—Records.
11.10—Religious Address.
11.40—Police Notes; Weather.
11.55—KRO Orchestra, Conductor: Reinards; at 12.40 p.m.—
Records.
1.40—For Women.
2.40—Records.
2.55—Russian Music—KRO Orchestra, Conductor: Reinards.
3.40-4.50—HIRO Programme: Records, Talks and News.
4.50—KRO Melodists.
5.25—Greetings; Records.

4.50—KRO Melodists.
5.25—Greetings; Records.
5.55—Swimming Lesson.
6.10—KRO Melodists.
6.40—Police Notes.
6.55—Talk: The African Pygmies.
7.15—Sports Talk.
7.40—News; KRO Notes.
7.55—KRO Symphony Orchestra.
Conductor: Flipse.
"La Cenerentola" (Rossini).
Pledmontese Dance (Sinigaglia).
Excerpts, "Tosca" (Puccini).
8.25—Report: The Amsterdam
Police.

8.25 — Report: The Amsterdam Police.

8.55—Orchestra (contd.), Overture, "Rosamunde" (Schubert), Suite on a Strauss Theme (Morena), Am himmelsblauen See (Millöcker). Overture, "Flotte Bursche" (Suppé),

9.40—Lajos Veres Hungarian Orchestra,

10.10—News.

10.20—KRO Boys; Klein (Refrains); at 10.40–10.50—Records.

HILVERSUM (No. 2)
995 kc/s (301.5 m.); 10 kW
until 8.40 p.m. 60 kW from 8.40

p.m. AVRO Programme; Records. 9.40—Service; Records. 10.10—AVRO Orchestra. 10.40—Cookery Talk. 11.10—AVRO Orchestra, Soprano, Tenor.

11.10—AVRO Orchestra, Soprano, Tenor. 12.10 p.m.—Records. 12.40—Kovacs Lajos Orchestra. 1.25—Pierre Palla (Pfte.). 1.55 — AVRO Orchestra, Sjoerd Zandstra (Horn). 2.40—Poems of Summer

TUESDAY June 21)

3.0—Jetty Cantor Orchestra.
4.10—Children's Choir.
4.40—For Children.
5.10—Acolian Orchestra.
5.55— Twilight Serenaders."
6.40—Dance Music: Talk.
7.40—Time: News; Records.
8.10—" Tuesday Night Special"—Variety. Kovacs Lajos Orchestra, Pierre Palla (Organ), Kamstra (Songs), The Jolly Five, etc.
9.55—A Play; Records.
10.40—News; Records.
11.10-11.40—Cigany Band.

KALUNDBORG

240 kc/s (1.250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.). Transmits at intervals from 7.0 a.m. 12.0 noon-2.0 p.m. — Julian Or-

12.0 noon-2.0 p.m. — Julian Orchestra.
2.30—Preil's Ensemble. Hungarian
March (Fucik). Prelude, "Eva"
(Le h ár). Frühlingsstimmen
(Strauss). Invocation (Thomsen).
Stilleben (Rydahl). Excerpts,
"The Land of Smiles" (Lehár).
Nu er det Foraar (Moe). Piece
(Collins). Rustic Suite (Gyldmark). Polka (Mainzer). Sangen,
min Mor laerte mig (Leiling).
A toi (Waldteufel). Mélodie sérieuse (Jørgensen). Juanita (Schrøder). Española (Alonso). Two
Love Sonnets (Gade). In Town
Tonight (Coates); at 3.20—Reading (Lo-Johansson).
4.50—Wireless Notes; Talk.
5.25—Weather; Exchange; Markets.
5.50—Kay Abrahamsen (Operetta
Songs).
6.15—Talk: Elsinore Ferry.

Songs).
1.15—Talk: Elsinore Ferry.
1.35—German Lesson.
1.0—Time; News; Talks.
1.0—Suite (Popper) by Rudolf and Ruth Dietzmann ('Cellos).

Ruth Dietzmann ('Cellos).

8.25—Record.

8.30—Two Scenes, "Nathan den Vise"—Play.

9.0—Contemporary Danish Music. Spring Overture (Ludolf Nielsen). Two Songs, "The Chinese Flute" (Schierbeck). Two French Songs (Schierbeck): (a) Mapetite fille est si blonde, (b) Piano. Sinfonietta (Syberg).

9.50—For Young People.

10.10—News.

10.30—Chamber Music. Trio in Gminor (Weber). Trio (Roussel).

11.10 p.m.-12.30 a.m. (Wednesday) — Preil's Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg)

KÖNIGSBERG (Heilsberg)
1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s
(230.2 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon-2.0 p.m.—See Munich.
2.0—News; Talk; Variety.
2.55-3.0—Exchange.
3.30—Talk for Women.
4.0—Orchestra, Oboe.
6.0—"Through Forest and Field"
—Sketch (Petschalles).
6.20—Ancedotes and Humour.
6.50—Announcements; News.
7.10 — Talk: Johann Georg
Hamann.
7.30—Dance Music, Börschel Band
and Peter Arco, etc.
9.0—"In the June Twilight"—
Summer Solstice Reports from
Town and Country.
10.0—News.
10.18—Report: The Kiel Regatta.
10.20—Political Press Review.
10.35—Midsummer Folklore and
Songs.
11.0—Light and Dance Records.
12.0 m*t.-3.0 a.m. (Wednesday)—
See Vienna.

LEIPZIG.

3.10—Reading (Kroner).
3.30—Georg Kiessig Chamber Music.
4.0-6.0—See Deutschlandsender; at 5.0—Markets.
6.0—Talk; Waltz Records.
6.45—A Visit to Fröbel's House at Oberweissbach.
7.0—News.
7.10 (from Dresden)—"From a Full Heart"—Literary Sequence from Hölderlin. Goethe, Bürger, Eichendorff, and Lenau (arr. Polack), with Music by Wetz.
8.0—Leipzig Symphony Orchestra, Conductor: Hilmar Weber; Adolf Steiner ("Cello); Erna Dietrich (Contralto); Gerhard Hofmann (Bass); Sammler (Pfte.). Overture, "Ali Baba" (Cheru-

bini). Aria, "Alceste" (Gluck).
Ballet, "Austin" (Marschner).
Recitative and Cavatina, "Mignon" (Thomas). Hungarian
Dances (Brahms). 'Cello Concerto
in B flat (Boccherini). Three
Songs for Bass (Schubert): (a)
Aufenthalt, (b) Die Macht der
Augen, (c) Alinde. Minuet and
Finale from the Symphony in C
(Haydn). Duet, "Oberon"
(Weber). Suite, "L'Arlésienne"
(Bizet). Soprano: Eros (Grieg).
Overture, "The Flying Dutchman" (Wagner).
10.0—News; Sports.
10.30—See Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—
See Vienna.

LILLE (Radio PTT Nord)
1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.30 p.m.—Radio Journal.
8.0—See Paris (PTT).
8.30—'' La bonne aventure au
Gué'' (Delafeur). After the
Programme: News.

LYONS (PTT) 648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m. 6.30 p.m.—Economic and Social

Notes.

7.0—Records.

7.30—News.

8.0—Press Review.

8.6—Legal Talk.

8.13—Talks.

8.26—Records.

Suzanne Dupont, Germaine Mazzoni, Jeanne Rambeat and Germaine Piroid (Songs), Noella Lambert (Pfte.), Eugène Gay (Clarinet) and Jean Witkowski ('Cello). Organ: Offertoire sur les grands jeux (Couperin). Trio (Beethoven). Songs (Schubert, Schumann). Piece for Bassoon (Weber). Intermezzo (Brahms). Songs for Quartet (Chausson): (a) La nuit, (b) Le réveil. Choral in A for Organ (Franck). Duet for Clarinet and Bassoon (Beethoven). Chant dégiaque and Divertissement (d'Indy), for Clarinet, 'Cello and Pfte. Four Songs for Quartet (Ducasse). Organ: Paraphrase (Tournemire).

10.30 - 11.0 — News (French, German). German).

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 7.30 p.m. — Springher Orchestra from Campione Casino; at 7.50

7.39 p.m. — Springher Orchestra from Campione Casino; at 7.50 — News.

8.15—Interview with Beniamino Gigli's Brother.

8.30—"A lumi spenti"—Radio Revue (Rampoldi-Modena) with Music by Storaci. Conductor: The Composer.

9.15—Literary Talk by Arminio Janner.

9.30-10.15 — Records. Overture, "Joan of Arc" (Verdi). La leggenda delle Dolomiti (Certani). Concerto (Paganini). Intermezzo, "Il carillon magico" (Pick-Mangiagalli). La danza d'Olaf (Pick-Mangiagalli). L'Ottobrata from Feste romane (Respighi), Tarantella from "La giara" (Casella).

MOSCOW 172 kc/s (1,744 m.); 500 kW.
12.30 p.m.—Talks, in Italian,
5.0—Music and Talk.
9.30—News; Kremlin Chimes.
10.5—Talks (Dutch, Swedish),
12.0 m't.—Talks in Spanish.

MUNICH
740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s
(236.8 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon — Dance Band and
Schrammel Band.
2.0 p.m.—News; Exchange.
2.15—Music from Stuttgart,
3.0-3.30—For Children,
4.0—Schumann and Liszt Records.
4.40—Reading (Bayerhammer),
5.0—Weather; Markets; Records.
6.50—The Week's Anniversary,
7.0—Time; News,
7.10—"Midsummer Fires in the
Tyrol"—Report.
8.40—"Motetto"—A Picture from
the Life of Faustina Hasse the
Primadonna (Reuther-Langefeld).
Orchestra, Margarethe AulhornSpecht (Soprano), Schoedel
(Harpsichord and Organ),
Speakers, etc.
9.20—Records: Light Music.
10.0—Time; News; Sports.

TUESDAY June 21)

NAPLES GROUP

Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m.
7.0 p.m.—Music; Topical Talk.
7.20 — Guido Monaco Dopolavoro Choir of Prato.
8.0-8.30—See Rome Group,
8.30 — Light Music and Dance Music—String Orchestra.
9.0—To be announced.
9.15—Song Potpourri—Radio Orchestra. chestra.

9.45—Accordion and Guitar Music.

10.0—Dance Music. 11.0—News. 11.15-11.55—Dance Music.

OSLO

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.5 p.m.—Variety Concert.
6.25—For Women.
6.45—News.
7.15—Zigeunerlieder (Brahms).
7.45—Report on Records.
8.10 — Second Symphony (Beethoven). Conductor: Kramm.
8.50—Talk.

hoven). Conductor: Kishington, Sol—Talk.

15 — Variations on a Paganini Theme (Rachmaninoff). Conductions of the Conduction of the Conduct

9.15 — Variations on a Paganini Theme (Rachmaninoff). Conduc-tor: Kramm. 9.40—News; Topical Talk, 10.15—Light Music—Bergen Radio Orchestra, Conductor: Johannes-

11.0-11.30—Report; Variety. PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.
6.30 p.m.—Educational.
7.0—Songs from Nice-Côte d'Azur.
7.30—Radio-Journal; News.
8.0—Sonata (Brahms) by Lucette
Descaves (Pfte.) and Zighera Descaves (Pfte.) and Zighcra (Violin).

8.30—Orchestral Concert. Conductor: Tomasi; Mme Monique Haas (Pfte.). Impressions d'Italie (Charpentier). Fantasia for Pfte. and Orchestra (Debussy). Hungaria (Liszt). Paris (Beydts). Two Symphonic Movements (Barraud). Spanish Rhapsody (Ravel). In the interval, Talk by M. Samazeuilh.

10.30—Records.

11.0-11.15—News.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 5.0 p.m.—Concert with Competi-tion.

5.0 p.m.—Concert with Competition.
6.0—News; Exchange.
6.10—Religious Address.
6.20—Records. Selection, "Namouna" (Lalo). I pini di Roma (Respighi).
6.55—Talk; Racing; Records.
7.5—Sports; Amusements.
7.13—Maurice Chevalier, Lucienne Boyer and Marie Dubas Successes.
7.45—"Les beaux dimanches," with Félix Paquet, etc.
8.0—Topical Talk.
8.10—"Les ondes joyeuses," with Charles Trenet, Fred Adison Orchestra and Georges Questiau.
8.40—"La bonne histoire."
9.0—"Un homme en or "—Play after Roger Ferdinand.
10.30—Cabaret.
11.0—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
2.30 p.m.—" Carmosine "—Three
Act Play (de Musset).
3.55—Record.
40. Alive Personne

4.0—Alice Raveau (Songs).
4.15—Reading (Catherine Mans-

4.0—Alice Raveau (Songs).
4.15—Reading (Catherine Mansfield).
4.30—Music Lesson.
5.0—Mme Maya-Féline (Songs).
5.15—Mme Durand-Texte (Pite.).
Waltz (Beethoven). Waltz in G
flat (Chopin). La plus que lente
(Debussy). Valse caprice (Fauré).
5.30—Clément Duhour (Songs).
5.45—Music Talk.
6.0—Talk: The Wheat Market.
6.16—Talk: Cercal Growing in the
French Colonies.
6.30—Robert Soëtens (Violin). Ciaconna (Vitali). Aria (Ibert). Le
Printemps (Milhaud). Minstrels
(Debussy). Sonata (Aubert).
7.0—Radio-Journal; News.
8.0—Mile Tant Mieux et Monsieur
Tant Pis.

10.20—Report: East Mark Culture Weck.
10.35—Music from Hamburg.
12.0 m²t.-3.0 a.m. (Wednesday)—See Vienna.

NAPLES GROUP
Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 7.45 a.m.
10.20—Report: East Mark Culture Alpes-Grenoble (PTT)—"Ciboulette". (Hahn) from the Salle Gaveau. Raugel Choir; National Orchestra, Conductor: Inghelbrecht; Cast: Mmes Renée Camia, Jeanne Petriat and Doerken, and MM. Roger Bourdin, Gaston Rey, Robert Laurence, and Cauchemont.
10.30—News; Song Records.

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes; Records.
6.40—News; Gym; Records.
7.15—News; Gym; Records.
9.45—Programmes; Records.
9.45—Programmes; Records.
9.45—Programmes; Records.
11.45—Exchange; Markets.
12.0 noon—Jewish Talk.
12.20 p.m.—Giardino Orchestra.
1.0—Time; News; Exchange.
1.30—Rousseau (Songs).
1.45—Giardino Orchestra.
2.0—Programme Notes.
2.5—Talk: Pirates and Buccancers.
2.20—Readings: Summer Poems.
2.25—Talk: Exchange; Markets.
2.45—Debussy Music by Ninette Chassaing (Pite.).
3.0—Nelly Fréval (Songs).
3.15—Political Review.
3.30—Talk: Flok-tales and Literature.
3.45—Exchange; Markets. PARIS (Radio-Paris)

3.15—Political Review.
3.30—Talk: Folk-tales and Literature.
3.45—Exchange; Markets.
4.0—Locatelli Orchestra. Rythmes espagnols (Laparra). Habañera (Chabrier). Petite Suite (Debussy). Souvenir (Rolland). Sous la fenêtre (Lachaume). Waltz, Amoureuse (Berger). Contes d'avril (Widor).
4.50—Exchange; Markets.
5.0—Concert organised by the "Union Interalliée." Orchestra, Paris Teachers' Choir, Conductors: Nadia Boulanger and Roger Ducasse; Mmes de Polignac, Gisèle Peyron, Irène Kedroff, Nathalie Kedroff and MM. Cuénod, Conrad. Excerpts, (Schumann). (Schumann). -Educational.

(schumann).
6.0—Educational.
6.30—Racing.
6.32—Talk: Central Europe.
6.45—Talk: New Words.
6.55—Dietetics; Programmes.
7.0—Educational.
7.30—Talk: England.
7.45—Labour Bureau Report.
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.15—Chamber Music by the Paris Instrumental Quintet. Pièce en concert (Rameau). Voyage au pays du tendre (Pierné).
8.45—"Le Corsaire"—Two-Act Play (Marcel Achard) from the Théâtre de l'Athénée; at 9.30—News and Talk: France and the Davis Cup.
11.45—Programmes.

PRACUE

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.40 p.m.—'Cello Sonata (Foerster).
6.0—Markets; For Workers.
6.20—Bernhard Salon Orchestra.
7.0—Time; News; Topical.
7.25—Sokol Notes.
7.30—Military Band from the
Královská - Obora. Conductor:
Pešta. Polonaise (Tchaikovsky).
Overture, "The Bohemian Girl"
(Balfe). Waltz (Balling). Serenade (Pešta). Gondoliera
(Zamrzla), Ballet, "Two
Widows" (Smetana).
8.5—Orchestra, Bass and Flute,
from Moravská-Ostrava.
8.50—Talk: The Czechoslovak
Army.
9.5—Station Orchestra. Conductors.

8.50—Talk: The Czechoslovak Army.
9.5—Station Orchestra. Conductor: Jirak. Overture, "The Kiss" (Smetana). At Twilight (Fibich). Suite in C minor (Ostrčil).
9.55—News; Sports.
10.15—Records.
10.35—Suk Pfte. Music played by Berta Rixova. The Spring. Summer Impressions.
11.0-11.15—News in English.

RADIO EIREANN

565 kc/s (531 m.); 100 kW.*
Dublin, etc. See Sunday.
1.30-2.30 p.m.—Records.
2.30-3.0—For Schools.
5.30 — New Talent — More Cork Successes.
6.10—Debate in Irish between Maire Nf Chuill and P.
O'Morain

Maire Nf Chuill and P.
O'Morain.
6.35—Irish News Feature.
6.45—News.
7.0—Songs and Duets from Old
Operettas by Chrissie Manning
and T. P. O'Brien.

7.20—Barney McCool of Coolaghey.
7.85—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara. 7.35—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara. Luigi Gasparini ('Cello).
8.30—Shakespearean Scenes by Elizabeth Young.
9.0—My Favourite Pite. Pieces and Why—Claud Biggs.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-NORMANDIE

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.

7.16 a.m.—Call.

7.15—Press Review; News.

7.45—Physical Exercises.

8.0—Melodies with Memories.

8.30—Light Music.

8.45—Time; Banish those Blues.

8.30—Light Music.

9.45—The Open Road.

9.0—Time; Light Music.

9.45—Waltz Time—Billy Bissett's Orchestra, etc.

10.0—Time; Familiar Tunes.

10.30—Radio Favourites.

10.45—Keyboard, Capers.

11.0—Time; The Songs we know them by.

11.15—Something for Everybody.

11.30—Chansonnettes.

12.0 noon—Concert.

12.30 p.m.—News.

11.30—Chansonnettes,
12.0 noon—Concert.
12.30 p.m.—News.
12.40—Light Music.
1.0—Concert.
2.0—Advance Film News.
2.15—Listen After Lunch.
2.30—Request Music.
3.0—Waltz Medley.
3.15—The Musical Mirror.
3.30—Crazy Quilt.
4.0—The Pleasant Quarter Hour.
4.15—Selection, "Hide and Seck."
4.30—Continental Dance Music.
6.0—Time; Songs in Harmony.
5.16—For Boys and Girls.
5.30—Paul Oliver and Olive Palmer.
6.45—Talk; News; Racing.
7.0—Light Music.
7.30—News; Light Music.
9.0—To be announced.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Wednesday)—Time; Dance Music.

RENNES-RRETAGNE

RENNES-BRETAGNE

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
8.0 p.n.—News; Records; Talk.
8.15 till Close (also Nice-Côte d'Azur) — From the Opéra-Comique. Conductor: Cloez.
8.15—"Une education manquée" (Chabrier), with Mmes Rolland and Gaudel, and M. Rousseau.
9.17—"La Bohème" (Puccini), with Lillie Grandval, Madeleine Drouot, Altery, Jeantet, etc.

ROME GROUP

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15—Maria Luisa Faini (Pfte.).

Two Sonatas (Scarlatti). Sonata in G minor (Schumann). Intermezzo (Brahms).

5.50-6.0—Aviation; Morse.
7.0-7.20—Talk in English.
7.30—Orchestra.
8.0—News; Talk; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—Talk. 9.0-9.0—Talk,
9.10—Act II, "La figlia di Jorio",
—Play (D'Annunzio).
10.0—Old and Modern Dances—
Cetta Orchestra.
10.40—Dance Music. 11.0-News. 11.15-11.55-Dance Music.

11.15-11.55—Dance Music.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.).

Transmits at intervals from 6.0 a.m.
12.0 noon-2.0 p.m.—See Munich.
2.0—News.
2.15—See Hamburg.
3.0-3.30—For Children.
4.0—Königsberg.
6.0—See Berlin.
7.0—Time; News.
7.10—"Where are you Comrade?"
7.45—Topical Review.
8.0—"Hello, Hello!"—Sequence about the Telephone, with Records.
9.15—"Betrothal and Marriage"—Sequence, with Sketch.
10.0—Time; News; Music.
10.30—See Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—See Vienna. 3.0-3.30—For Children.
4.0—Königsberg.
6.0—See Berlin.
7.0—Time; News.
7.10—'Where are you Comrade?''
7.45—Topical Review.
8.0—'' Hello, Hello!''—Sequence about the Telephone, with Records.
9.18—'' Betrothal and Marriage''—Sequence, with Sketch.
10.0—Time; News; Music.
10.30—See Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—See Vienna.

SOTTENS
677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s (748 m.).
12.29-1.45 p.m.—News; Records.

Toulouse
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.55 p.m.—News; Sports Notes.
7.15—Light Music. (News; Necerpts, 8.0—Operetta Music. Excerpts, 8.0—Operetta Music. Excerpts, 9.15—Enatzky). "The Dular Princess of Chicago" (Kalmán), "The Dollar Princess" (Fall), and "Oh! papa" (Yvain).
8.25—Talk; Rumbas.
8.40—Variety; Light Music.
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
(Abraham), "White Horse Inn" (Stolz-Benatzky). "The Dular Princess" (Fall), and "Oh! papa" (Yvain).
8.25—Talk; Rumbas.
8.40—Variety; Light Music.
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
(Abraham), "White Horse Inn" (Stolz-Benatzky). "The Dular Princess" (Fall), and "Oh! papa" (Yvain).
8.25—Talk; Rumbas.
8.40—Variety; Light Music.
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
(Abraham), "White Horse Inn" (Stolz-Benatzky). "The Dular Princess" (Fall), and "Oh! papa" (Yvain).
8.25—Talk; Rumbas.
8.40—Variety; Light Music.
913 kc/s (328.6 m.); 60 kW.

5.0-Radio Suisse romande Orchestra. Conductor: Haug. M. Basset-Zimmermann (Soprano),

tra. Conductor: Haug. Mme
Basset-Zimmermann (Soprano).
6.0—For Women.
6.15—Folk Music—Radio Suisse
Romande Orchestra. Conductor:
Haug. Polish Dances (Scharwenka). Hungarian Dances
(Brahms). Ticinese Folk Melodies.
7.0—Theatre Notes.
7.10—Talk: American Systems—
Ford, Taylor, and Roosevelt.
7.20—Talk: Dental Hygiene.
7.30—Music.
7.30—Music.
8.0—Radio Suisse romande Orchestra. Conductor: Haug. Appia
(Violin). Academic Festival Overture (Brahms). Poem for Violin and Orchestra (Dalcroze).
8.30—See Paris (PTT).
10.30—11.0—Dance Records.

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.20 a.m.
7.0 p.m.—News.
7.39—Göteborg Radio Orchestra. Transmits at intervals from 7.20 a.m.
7.0 p.m.—News.
7.30—Göteborg Radio Orchestra.
Guest Conductor: Matti Rubinstein. Overture (Rosenberg).
Incidental Music to The
Tempest" (Nystroem). Dances
from Galanta (Kodály). In the
Steppes of Central Asia (Borodin). Concert Waltz (Glazunov).
Polka and Fugue (Weinberger).
8.30—Literary Talk.
9.0—Cabaret.
9.45—A conducted Tour in Värmland.
10.0—News.

land.

10.0—News.

10.15-11.0 — Sacred Music from Sundvall Church. Hult (Organ), Naima Lindgren-Erwald (Songs) and the Sundsvall Trio. Two Organ Chorals (Olsson). Songs (Rendahl, Eriksson, Organ: Prelude and Fugue on the Name BACH (Reger). Cantata, "For God so loved the World" (Buxtehude).

STRASBOURG

STRASBOURG

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

5.0 p.m.—Economic and Social
Questions.

5.15—Old French Songs, Marcel
Le Breton (Tenor), Mme Inès
Maujean and the Station Orchestra. Conductor: de Villers.

6.0—Educational.

6.30—See Paris (PTT).

7.0—News; Weather.

7.30—Light Music from Limoges
(PTT).

7.30—Light Music from Limoges (PTT).
8.0—News (German, French).
8.30—' The Damnation of Faust'' (Berlioz) from the Palais des Fêtes. Strasbourg Municipal Orchestra, Conductor: Munch; Cast: Mile Germaine Hoerner and MM. Jouatte, Pernet and Gillig.
11.15—News (French, German).

STUTTGART
574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
12.0 noon—Baden Provincial Orchestra

chestra.
2.0-3.0 p.m. — Musical Variety —
Orchestra, Soprano, Organ.
4.0-6.0—See Deutschlandsender;
at 5.0-5.15—Report: The Kemp-

4.0-6.0—See Deutschlandsender; at 5.0-5.15—Report: The Kempten Bxcavations.
6.0 — "Preserving the Balance in Marriage"—Sketch (Blank).
6.30—Topical Review. In the interval, Report on the Reich Students' Congress in Heidelberg.
7.0—News; Cultural Calendar.
7.15—Records: Musical Variety.
7.30—"The Solstice"—Literary and Musical Programme.
8.0—"Leicht angedreht"—A Summer Sequence (Vetter).
9.0—Dance Music.
10.0—News; Weather; Sports.
10.20—Political Press Review.
10.35—Light Orchestral; Heckmann (Harp).
12.0 m't.-3.0 a.m. (Wednesday)—See Frankfurt.

TOULOUSE (Radio-

10.45—Songs of Marseilles. 11.0—Light Music. 11.45—Dance Music. 12.0 m't.—News.

TURIN GROUP

TURIN GROUP

Turin (No. 1), 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—Dance Music.
7.19 (Rome (No. 2) only)—News and Talk in English.
7.30-8.30—See Rome Group.
8.30—Records: Light Music; at 8.36 (Milan (No. 1), Rome (No. 2), and Bolzano)—News and Talk in German.
9.0 — "The Barber of Seville" (Rossini). Conductor: Previtali. Chorus Master: Costantini. Cast: Giovanni Manurita, Luigi Bernardi, Lina Pagliughi, Carlo Tagiabue, Nicola Moscona, and Agnese Dubbini. Talks and Announcements in the intervals. After the Opera: News and Dance Music.

VIENNA

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
12.0 noon—Station Orchestra.
2.0 p.m. — News; Classical Records.
3.0—News; Talk.
4.0-6.0—See Deutschlandsender; at
5.0—Tyrolean Humour,
6.0—For Children; Records.
6.30—Topical Review; News,
7.10—"The Green Forest"—Sequence with Music.
8.0—Vienna Symphony Orchestra,
Conductor: Kabasta. Concerto
in C minor for Strings (VivaldiCasella). Aus Italien (Strauss).
9.0—Political Press Review.
9.15—Violin Concerto in D'(Brahms)
by Franz Bruckbauer and the
Vienna Symphony Orchestra,
Conductor: Kabasta.
10.0—News.

Vienna Symphony Orchestra,
Conductor: Kabasta.

10.0—News.
10.15—See Frankfurt.
10.35—Music from Hamburg.
12.0 m't.-3.0 a.m. (Wednesday) —
Serenade. Part I. Vienna Chamber Orchestra, Conductor: Pehm;
Kusche (Violin). Nordische Sennfahrt (Gade). Peer Gynt Suite
(Grieg). Lyric Scenes (Wetchy).
Humoresque (Reinl). Dances,
"The Bartered Bride" (Smetana).
German Folk-Song Fantasia
(Blumer). Part II. German FolkDances. Bracharz (Violin and
Viola); Stukart (Violin and
Flute); Schmidt (Clarinet and
Harmonica); Schindler (Guitar).
Part III. Vienna Chamber Orchestra, Conductor: Pehm. Potpourri, Klassisch und Wienerisch
(Komzak). Waltz, "Gipsy Love"
(Lehår). Overture, "Indigo"
(Strauss). Erwachte Liebe (Millöcker). Viennese Dances (Beethoven). Doktrinen (E. Strauss).
March (Hinterhofer).

WARSAW

WARSAW

224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.
Transmits at intervals from 6.15 a.m.
4.0 p.m. (from Katowice)—Light
and Dance Music—Sosna (Songs),
Harald and Liczbiński (Pfte.
Duo), Kroszona and Jaworski
(Trumpet and Clarinet),
4.45 (from Cracow)—Recitation.
5.0—Dance Records.
6.0—Talk.
6.10 (from Poznań)—French Pfte.

Music by Konatkowska. Two
Nocturnes (Fauré). Le jardin de
Dolly (Fauré). Pieces (Debussy):
(a) Docteur Gradus ad Parnassum, (b) Golliwog's Cakewalk, (c)
La plus que lente. Histoires
([bert).
6.45 (from Poznan). 10 (from Poznań)—French Pfte, Music by Konaskowski

sum, (b) Golliwog's Cakewalk, (c)
La plus que lente. Histoires
(Ibert).
6.45 (from Poznań)—"The Brahmin, the Tiger and the Six
Judges"—a Hindu Fable (arr.
Pluciński).
7.0—Handel Recital by Snieckowski
and Staniszewski (Oboes) and
Szamotulska (Pfte.), Sonata in E
flat. Excerpts from the Sonata in E
flat. Excerpts from the Sonata in E
flat. Excerpts from the Sonata in G
minor.
7.20—Topical Talk.
7.30—"Let us travel"—Station
Orchestra. Conductor: Górzyński.
In the intervals, Three Parodies.
8.45—News; Topical Talk,
9.0—For Farmers.
9.10 (from Lwów). A Song
Grotesque—Literary and Musical
Programme (arr. Fleischer).
9.50—Sports Notes.
10.0—Ada Sari (Songs). Arias from
"Mefistofele" (Boito) and "La
Sonnambula" (Bellini), Three
Songs (Friemann). Spanish Song
(Arditi). Songs (Joh. Strauss):
(a) Czardas, (b) Intermezzo, (c)
Frühlingsstimmen.
10.30—Records.
11.0-11.5—News.

National

For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45 (D) — "The Mystery of
Easter Island: "Commander
A. B. Campbell.
11.0 (D)—Norris Stanley Sextet.
11.30 (D)—French for Schools.
11.50 (D)—Records.
12.5 p.m. (D)—Sex Sköld's Orchestra, from Stockholm.
12.°0 (D)—Records.
12.°0 (D)—Records.
1.15 (D)—BBC N. Ireland Orchestra.

1.2-90 (D)—Records.

1.15 (D)—BBC N, Ireland Orchestra.

2.5 (D)—For Schools.

2.5-9 (D)—Records.

3.0 (D)—Geiger's Orchestra.

2.70 (D)—Records.

4.0 (D)—Evensong from St. Paul's Cathe tral.

4.50 (D)—Records.

5.0—All-England Lawn Tennis Championships: account of today's play by F. H. Grisewood.

5.10—Al Collins' Orchestra.

6.20—The Pirst News.

6.20—The Danish National Agricultural Exhibition: J. A. Scott Watson.

6.40—Act 1, "Don Glovanni" (Mozart) from the Glyndebourne Festival Opera House, with Salvatore Baccaloni, Ina Soucz, John Brownlee, David Franklin, Dino Borgioli, Luise Helletsgruber, Marita Farell, Roy Henderson, Glyndebourne Festival Chorus and Orchestra; conductor, Fritz Busch.

8.35 — BBC Variety Orchestra: Rosamund Belmore (Comedienne).

9.20 — Billy Caryll and Hilda Mundy.

10.0—BBC Military Band: Foster

9.20 — Billy Caryn and Theometer Mundy.

10.0—BBC Military Band: Foster Richardson (Bass-Baritone).

10.45—Poetry reading.

11.0—Jack Jackson's Band.

11.25-12.0—Swing records.

London Regional London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45—BBC Welsh Orchestra:
Robert Davies (Baritone).
11.30—Quentin Maclean (Cinema Organ).
12.5 p.m.—Records.
12.30—Rhythm Classics.
12.50 — Characters from the Country.

12.30 — Charm.

Country.

1.5—Records.

1.35—Meyer Rosenstein (Pfte.).

2.10—The Alan Holmes Swing Sextet, with Olive Bailey.

2.35 — Seventeenth-Century Court Lect, from The Bayle, Brid-Lect, from The Bayle, Brid-Sosforth

Lect, from The Baye, lington.
2.55 — The Northumberland Plate commentary from Gosforth Park, Newcastle-upon-Tyne.
3.15—BBC Empire Orchestra.
4.0—"Motor Cycling: "Ixion.
4.15 — Take Your Choice, with Janet Lind, Bernard Clifton, Richard Littledale, Geoffrey Wincott, Alexander Archdale, and

richard Elitedate, Geoffrey Win-cott, Alexander Archdale, -and the Three Cheers. 8.0—The Children's Hour. 6.0—Records of Duke Ellington's Orchestra and Bob Crosby's

Orchestra and Bob Crosby's Orchestra.

6.30—Jack Hardy's Little Orchestra.

7.0—The Second News.

7.20—Regional Announcements.

7.30—"Blackpool, the Pirate: "play by H. Hamilton Earle.

8.30—The World Goes By.

9.0—Liverpool Repertory Theatre Company in "Parnell," by Elsie T. Schauffler.

10.0—News Summary.

10.25—Jack Jackson's Band.

11.25—Records.

11.50-12.0—Late News Summary.

Midland
m.—Regional.

Midland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Lilian Blunt (Soprano); Leslie Cuttriss (Baritone); Harold Howl (Pfte.).
6.30—Harry Engleman's Quintet.
7.0—The Second News.
7.20—Midland Announcements.
7.30—Characters from the Country.
7.45—Midland Marionettes.
8.30-12.0—Regional.

Northern n.m.—Regional. 10.15 a.m.-5.0 p.m.—Regional. 5.0—The Children's Hour. 6.0—Norman Newman's Band. 6.40—"The Pitman's Derby 1" 7.0—The Second News. 7.20—For Northern Farmers. 7.30-12.0—Regional.

17.20—For Northern Farmers.
17.30—12.0—Regional.

Western

10.45 a.m.-6.0 p.m.—National.
6.0—Regional.
17.20—Western Announcements.
17.30—Regional.
17.30—Regi

gomery, speaking from Wilton House, Salisbury, 9.20—Weston Municipal Orchestra, 10.0-10.25—Regional.

Welsh

Welsh
10.15 a.m.—Welsh Service.
10.30-11.0—Regional.
11.0—For Schools in Wales.
11.30 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Byd Merched: Myfanwy Eames.
6.20—Lower Haydon Pull. (Pic.) 6.0 — Byd Metched: Mystalwy Eames.
6.20—Joyce Haydon-Bull (Pfte.).
6.40—'Fy Mlwyddyn Arbennig I:" J. H. Jones.
7.00—Welsh Announcements.
7.30—Welsh News.
7.45—Music talk.
8.0—Music by Welsh Composers: Megan Thomas (Soprano): Strings of the BBC Welsh Orchestra (Augmented).
9.0-12.0—Regional.

N. Ireland

N. Ireland
10.15 a.m.,-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.30 — Hymn Recital from St.
Patrick's Parish Church, Ballymoney, County Antrim.
7.0—The Second News.
7.20—N. Ireland News.
7.30-12.0—Regional.

Scottish

Scottish

10.15 a.m.-2.0 p.m.—National.
2.0—Herring Fishing Bulletin.
2.5—National.
2.30—For Schools—Biology; 3.0—Concerts for Primary Schools.
3.30-5.0—National.
5.0—The Children's Hour.
6.0—Monthly News Review (in Gaelic) 6.0—Monthly News Review (in Gaelic).
6.15—Leslie and District Prize Silver Band.
6.45—"At the Highland Show:" John R. Allan.
7.0—The Second News.
7.20—Scottish Announcements.
7.30—Variety.
8.0 — Part Songs; BBC Scottish Singers conducted by Ian Whyte.
8.30—Regional.
10.25—Scottish Sports News.
10.30—Evening Worship.
10.45-12.0—Regional.

Hours of Transmission in British Summer Time.

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

Transmits at intervals from 6.0 a.m. 12.0 noon—See Saarbrücken. 1.0 p.m.—Midday Echoes. 1.15—See Stuttgart. 2.0—News. 2.0—News.
2.15—Hans Raue Band.
3.15—Exchange; Markets; Records.
4.20 — Story; Trio (Schubert) Report.

.0—Hans Bund Band.

.0—News. Report.
6.0—Hans Bund Band.
7.0—News.
7.10—Records: French Composers.
7.45—Evening Echoes.
8.0—Hans Raue Band.
8.30—Station Orchestra, Conductor: Steiner. Variations on a Russian Folk-Song (Graener).
Music for Two Violins and Orchestra (Schaeuble). Don Juan (Strauss).
9.30—Dance Records.
10.0—News. 9.30—Dance Records.
10.0—News.
10.30—See Breslau.
13.0 m't.—See Munich.
1.0 a.m. (Thursday)—See Deutschlandsender.

6.30-6.45-7.0—Time

BEROMÜNSTER 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. (from Berne)—Gym.
12.0 noon—Zürich Radio Orchestra; at 12.29 p.m.—Time; 1.20-1.45-Records. 4.30-6.30-From Berne, 4.30-For Women; Records. 5.0-Modern Music. 5.0—Modern Music.
5.35—"Le Cœur qui chante
Graziella Meyer Choir.
5.55—Orchestral Records.
6.0—For Young People.
6.30 till Close—From Basle.
6.30-6.45—Music.
7.0—Time: Appropriements

BRUSSELS (No. 2) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m.—Records; Gym; 6.30-9.5 a.m.—Records; Gym; News.

12.0 noon — Records: Russian Choirs and Singers.
12.30 p.m.—Salon Orchestra,
1.0—News; Salon Orchestra,
1.30-2.0—Cabaret Records.
4.55—Announcements; News,
5.0—Salon Orchestra.

the Hans Huber Hall. Conductor: Münch. 9.50—Talks. 10.25-10.30—News; Programmes.

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 7.30 9.10 p.m.—From Kosice. 7.30—Danyi Cigány Band. Talk 8.10—Slovak Songs (Zych-Vipler). 8.30 — "Gemer Sokols" — Play 8.30 — "Gemer Sokols" — Play (Sopko).

9.10—Concert. Emma Simandlava (Soprano), Bláha and Kolár (Violins), Wagner (Viola), Simandl (Cello), Beza (Flute), Macudzinski (Píte.). Allegretto (Sinding). Two Songs (d'Albert). Romance (Leroux), Minuet (Dittersdorff). Elegy (Massenet). Le Nil (Leroux). Interlude (Glazunov). Nocturne and Allegretto scherzando (Gaubert). Adagio (Sinding), Il tramonto (Respighi).

9.55—Sec Prague.

10.15-11.0—News (Hung.); Records.

RRESTALL

950 kc/s (315.8 m.); 100 kW. Relayed by Gle.witz and Görlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 5.0 a.m. 12.0 noon—See Saarbrücken.

1.0 p.m.—Time; News.

1.15—See Stuttgart.
2.0—News; Exchange; Records.

3.30—Play for Children.

4.0 — Orchestra, etc.; at 5.0 — Books. 6.0—Story; Talk. 6.30 — Boys learn to fly; Programmes. 7.0—News. 7.10—Talk: The Gymnastics Festi-7.10—Talk: The Gymnastics Festival.
7.25—Ficrke Quintet.
8.0—"Verwehte Spuren" — A Play (Rothe).
9.0—Light and Dance Music.
10.0—News.
10.30—Light and Dance Music.
12.0 m't.-3.0 a.m. (Thursday) — See Munich.

922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m. — German Songs and
Reading.
6.35—For Workers.
6.45—News in German.
7.0-7.30—See Prague.
7.30—Rolenc (Saxophone), Kopecky
and Bozena Kopecka (Harmonicas). cas). 7.45-10.15—See Prague. 10.15 Sonata (Kunc) by Zámec-níkand (Violin) and Bakali (Píte.). 10.50-11.0—Records.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW.
6.30-9.5 a.m.—Records; Gym;
News.
12.0 noon—Records: Light Music.
12.30 p.m.—Shipping; Orchestra.
1.0—News; Orchestra; Records.
2.0-2.3—Art Notes.
4.55—Announcements; News.
5.0—Brenders Jazz Band.
5.25—Readings (Anatole France, Daudet).
5.40—Brenders Jazz Band.
6.0—Art Talk.
6.15—Belgian Court Trio. Sonata (Locillet). Concerto (Rameau).
6.30—Reading (Pierre Loti).
6.45—Belgian Court Trio. Trio in G (Haydn).
7.0—Topical Reviews.
7.15—Records: Overtures.
7.30—Journal Parlé; News.
8.0 — Liége Composers—Belgian National Orchestra, Conductor: Marsick Georges Villier (Songs).
Six Pieces (Orban). Excerpt, "Lara" (Marsick). Renouveau (van den Boorn-Coclet).
8.45—Report: Where the Meuse enters Holland.
9.0—Liége Composers (contd.).
Excerpts, "Astrareine" (Mawet).
Rêve plastique (Drocghmans).
9.30—Reading.
9.40—Liége Composers (contd.).
Suite ardennaise (Rogister).
10.0—News. 620 kc/s (483.9 m.); 15 kW. 6.30-9.5 a.m.—Records; Gym;

10.0—News. 10.10-11.0—Brenders Jazz Band.

June 22 WEDNESDAY

5.30—For Children.
6.30—Pfte, and Violin Records.
7.0—Flemish Composers—Edward
Blaes Songs by Mme TuypensDelemarre. Voorjaarsvond. Ik Delemarre. Voorjaarsvond. Ik ken een vrouw. Aan de afwezige. Wij wisten niet. Moeder's muis. Margareta aan't spinnewiel. 7.30—'i'ourist Report. 8.0—'' Das Spielzeug Ihrer Majestät''—Operetta (Königsberger). Conductor: Walpot; at 8.45—Staf Nees (Carillonneur). 10.0—News.

10.0—News.
10.10-11.0—Records. Dichterliebe (Schumann) by Charles Panzera (Baritone). The Military Symphony (Haydn), by the Vienna Philharmonic. Conductor: Bruno

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.).
Transmits at intervals from 5.30 a.m. 6 0 p.m.—Time; Weather; Books. 6.15—Radio Salon Orchestra. Conductor: Bobesco. 648.—Tolk 6.15—Radio Salon Orchestra, Conductor: Bobesco.
6.45—Talk.
7.0—Chopin Songs by Aurel Boureano.
7.25— Records: "Mignon" (Thomas).
8.0—Talk.
8.15—Theodoresco (Violin).
8.59—Cabaret on Records.
9.30—News; Sports.
9.45—Café Concert.
10.45—News (French, English).

BUDAPEST

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 —News. 1.30—Station Band.

1.30—Station Band.
2.35—News.
4.15—For Schools.
5.0—Gábor Halasz.
5.30—Lenke Zsógón (Songs).
6.0—Talk: Air Defence.
6.15—Suki Cigány Band.
7.0—Foreign Affairs; Records.
8.0—"The Last Days of Pompeii"—Play after Bulwer-Lytton (Szilágyi).
9.30—News.

(Szilágyi).

9.30—News.

9.55—Opera Orchestra, Conductor:
Fridl. Festival Overture (Erkel).
Ballet, "Etienne Marcel" (Saint-Saëns). Ballet, "Almos" (Moson-yi). Symphonic Dances (Grieg).
11.0—News (English, French).
11.10—Heinemann Jazz Band.
12.5 a.m. (Thursday)—News.

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon—See Saarbrücken. 1.0 p.m.—News, 1.15—See Stuttgart.

1.15—See Stuttgart.
2.0—News; Music.
3.0—For Children,
3.25—Genealogy; Industrial News.
4.0—Orchestra, Soprano; at 5.05.10—A Story.
6.0—Topical Talk.
6.30 — Schubert Songs by Heinz

6.30 — Schubert Songs by Heinz Stadelmann. 6.45 — Report: The Gymnastics Festival at Breslau.

festival at Breslau.
7.0—News.
7.10—Records: Tänzerische Suite (Künneke).
7.46—Political Press Review.
8.0—"Heitere Bilder aus dem Zoo" (Zillinger) by the Station Orchestra and Choir, Hildegard Krings (Soprano) and Dicks (Baritone).
8.30—Rhapsodies and Dances, Conductor: Artz. Rhapsody (Svendsen). Norwegian Dances (Grieg).
Spanish Rhapsody (Chabrier).
Slav Dances (Dvořák). Slav Rhapsody (Friedemann). Invitation to the Dance (Weber), Rhapsody (Liszt).
(Strauss).

tion to the Dance (Weber), Knap-sody (Liszt), Rathausballtänze (Strauss). 10.0—News; Records. 10.30—See Vienna. 12.0 m¹t.—See Munich. 1.0 a.ni. (Thursday)—See Deutsch-landsender.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 2.0 noon — Station Orchestra, Conductor: Dobrindt; at 12.55 p.m.—Time; Greetings. 1.45—News. 2.0—Jäger Band and Records. 3.0 — Markets; Records; Programmes.

grammes. 4.0—See Leipzig; at 5.0 — Talk.

6.0—For Boys, 6.30—Adelheid Holz (Songs). Report: East Prussian 6.45 — Report : Horse-breeding.

Horse-breeding.
7.0—News.
7.10—New German Wind Band Music by the Woitschach Band.
8.0—See Vienna; at 9.0-9.15—
Topical Talk.
10.0—News.
10.20—Report of the Cycle Tour of Germany, Bielefeld-Hanover.
10.30-10.45—Horn (Pfte.). Prelude (Scriabin). Nocturne (Scriabin). Russian Wedding Song (Bortkie-wicz).

Russian wedging Song (Bortac-wicz).

11.0—Concert from Vienna.

12.0 m²t.—See Stutgart.

1.0 a.m. (Thursday) — Commentary on the Schmeling v. Louis Boxing Match by Arno Hellinis, from U.S.A. In the intervals, Music, Talks and Reports.

FRANKFURT

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m.

Cassel, etc. See Sunday.

Transmits at intervals from 5.0 a.m.

12.0 noon—See Saarbrücken,

1.0 p.m.—Time; News.

1.15—See Stuttgart.

2.0—Time; News; *Records.

3.0-3.30—Weekly Review; Talk.

4.0—Orchestra. In the interval—
The Roving Microphone.

6.0—Talk.

6.15—The Rally of the Old Guard.

6.30—Records; Talk.

7.0—Time; News.

7.10—Landscapes—The Westerwald.
Male Voice Choir, Soprano, etc.

8.0—Franco-Belgian Concert. Wiesbaden Municipal Orchestra,
Helène de Costa (Pfte.), Concert
dans le gout théâtral (CouperinCortot). Concertino for Pfte. and
Orchestra (Francaix), Prélude à
l'après-midi d'un faune (Debussy). Allegro symphonique
(Poot). Symphonic Variations for
Pfte. and Orchestra (Franck). Excerpt, "Romeo and Juliet"
(Berlioz). In the interval—Talk:
Berlioz.

Berlioz.

10.0—Time; News.

10.20—Talk: Germans in Brazil.

10.30—See Vienna.

12.0 mt.-3.0 a.m. (Thursday)—
See Stuttgart.

HAMBURG

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.45 a.m. 12.0 noon—See Saarbrücken. 1.0 p.m.—Weather; Topical. 1.0 p.m.—Weather; Topical.
1.15—See Stuttgart.
2.0—News; Music.
3.0—Shipping; Markets.
3.25—Chamber Music.
4.0—Choir, Orchestra, Quartet. In the intervals—Talks.
6.0—Talk: Two Entomologists.
6.15—See Frankfurt.
6.30—Records; Weather; Shipping.

7.0—News.
7.10—Orchestra.
8.0—Records of Caruso, Dusolina, Giannini, Gigli, Toti dal Monte,

etc.
10.0—News.
10.25—Report: Kiel Week.
10.30—Breslau Gymnastics Festival.
10.40—Concert from Vienna.
12.0 m't.—See Munich.
1.0 a.m. (Thursday)—See Deutschlandsender.

HILVERSUM (No. 1)

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until
8.40 p.m.; 150 kW from 8.40
p.m. Also an Jaarsveld, 722 kc/s
(415.4 m.); 17 kW.

NCRV Programme.
7.40 a.m.—Bible Reading; Meditation; Records; at 9.10—
Greetings.
10.10—Religious Address; Records.
10.40—Police Notes; Records.
11.40—Police Notes; Records.
12.10 p.m.—Van der Horst Ensemble.
11.40—Horice Notes; Records.
1.10—Records.
1.10—Records.
1.25—Report: Y.W.C.A. Congress at Amsterdam.
3.55—Records.
3.55—Records: Greetings.
4.40—For Children.
5.25—Records.
6.10—Navigation Lesson.
6.40—Police Notes; Church Notes; For Farmers and Gardeners.
7.25.7.40—Report.
7.45—News; S O S Messages.
7.55—Sacred Music—Kee (Organ).
8.40—Bible Talk.

221 WEDNESDAY June

10 — NCRV Orchestra. Conductor: v. d. Hurk, (Organ). Paraphrase on Sacred Songs (Kloek). Sacred Music for Organ and Orchestra.
35—News; For Amateur Photographer. 9.10 - NCRV Orchestra.

Concerto in A minor

9.55—Pfte. Concerto in A minor (Schumann) by Rie Beute and the NCRV Orchestra, Conductor: v. d. Hurk.
10.25—Gymnastics.
10.40 — NCRV Orchestra. Conductor: v. d. Hurk. Overture, "Djamileh" (Bizet). Scènes bohèmiennes (Bizet). Selection, "Otello" (Verdi).
11.10—Records.
11.30-11.40—Bible Reading.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW until 8.40 p.m.; 60 kW from 8.40 p.m. VARA Programme. 7.40 a.m.—Records. 9.10—Talk: Gastronomy. 9.40—VPRO Service. 10.0—Records; Esmeralda Septet; VARA Dramatic Ensemble, and the Steyn Accordion Band (Recorded). 11.40—Records.

(Recorded). 11.40—Records. 12.25-1.25 p.m.—Jong (Organ). 1.40—Dressmaking Lesson. 2.10—Ramblers Dance Band. 2.40—For Children.

2.10—Ramblers Dance Band.
2.40—For Children.
5.10—Records.
5.40—Steyn (Organ) and Vroons (Tenor).
6.10—RVU Talk; Records.
6.46—Choir. Conductor: Tiggers.
7.10—VPRO Talk.
7.45—S O S Messages; News.
7.55—VARA Orchestra. Conductor: Höfler. Overture, "William Tell" (Rossini). Selection, "Cavalleria rusticana" (Mascagni). Aus fröhlichten Zeiten (Hruby). Freut Euch des Lebens (Joh. Strauss). Overture, "Der Opernball" (Heuberger).
8.40—Sports Review.
9.10—Fourth Symphony in G (Mahler) by the Utrecht Municipal Orchestra. Conductor: v. Otterloo; Jo Vincent (Soprano).
10.10—News.
10.15—"The Fantasia." Conductor: Walis.

10.15 — "The Fantasia." Conductor: Walis.
10.40 — Report: The International Chess Tournament at Noordwijk.
10.45—Ramblers Dance Band.
11.10-11.40—Records.

KALUNDBORG

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

Transmits at intervals from 7.0 a.m.
12.0 noon—Preil's Ensemble.
2.0 p.m.—Reading.
2.30 — Orchestra, Conductor:
Tuxen, Suhr (Songs).
4.30—For Children.
4.50—Wireless Notes; Talk.
5.25—Weather; Exchange; Records. 5.25—Weather; Exchange; Records.
6.15—Reading (Jørgensen).
6.35—French Lessons,
7.0—Time; News; Talks.
8.0—Schubert Music by Jensen and Peters (Pfte. Duo). March in C. Fantasia in F minor.
8.20—Reflections of a Hermit.
8.50—Richard Strauss Records.
9.0—Poems (Nis Petersen).
9.20—News; Weather.
9.40—Talk on the following Opera.
9.45—Act II, "Don Giovanni" (Mozart) from Glyndebourne.
11.20 p.m.-12.30 a.m. (Thursday)—Preil's Dance Band.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.). Transmits at intervals from 5.0 a.m. 12.0 noon-See Saarbrücken. 1.0 p.m.—Time; News. 1.15-See Stuttgart. 2.0—News; Talk; Music. 2.55-3.0—Exchange. 3.30—For Women; Talk. 4.0-Börschel Band; at 5.0-Talk Riding.
6.0—Report: A Thousand Boys and
Girls learn Swimming.
6.15—" Mother Earth" — Station

Choir 6.35-Topical Talk; Local News.

7.0—News. 7.10—See Breslau.

7.10—See Bresiau.
7.25—Just Scheu (Love Songs).
8.0—See Frankfurt.
10.0—News; Sports; Reading.
10.40—Concert from Vienna.
2.0 m²t.-3.0 a.m. (Thursday)—See Munich.

LEIPZIG

785 kc/st (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). (233.5 m.), Fransmits at intervals from 5.50 a.m. 12.0 noon—See Saarbrücken.

12.0 noon—See Sa 1.0 p.m.—News. 1.15—See Stuttgart. 1.0 p.m.—News.
1.15—See Stuttgart.
2.0—News; Exchange; Records.
3.0—Erfurt's History.
3.25—Harpsichord: Partita (Bach).
3.50—Book Review.
4.0—Fricke Band; at 5.0—Markets.
6.0—Talk; Music; Story.
6.45—Report from Heidelberg:
Reich Students' Festival Week.
7.0—News.
7.0—News.
7.10—"The Great in Lighter
Vein," Readings from Liliencron,
Lessing, Kleist, Schopenhauer,
Goethe, etc.
8.0—See Vienna.
10.0—News.
10.30—See Vienna.
12.0 n't.—See Munich.
1.0 a.m. (Thursday)—See Deutschlandsender.

LILLE (Radio PTT Nord)

1,213 ke/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30a.m.
5.45 p.m.—Orchestra, Conductor:
Le Meitour, Hespel (Pfte.).
6.30—Educational.
7.0—For Gardeners.
7.10—Talk in English; Record.

30—News.
0—"Confidences"—Sketch with

8.0—"Confidences"—Sketch with Jim and Joujette.
8.30—Station Orchestra, Conductor: Soret, Louise Cauchie and Delaunoy (Songs), Le Meitour (Violin). Part I: Mozart. Overture, "The Magic Flute." Violin Concerto in A. Aria, "Figaro." Song. Aria, "The Magic Flute." Symphony in D. Part II: Classical Music. Overture, "I Lituani" (Ponchielli). Symphonic Poem, Izcyl (Pierné). Excerpts, "Gretna Green" (Guiraud). Songs (Massenet, Schubert). Ballet, "Sylvia" (Delibes). Berceuse (Fauré). Prayer and Temple Dance (Grieg). After the Concert, News.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 5.0-6.0 p.m.—See Beromünster. 7.30—Records.

7.39—Records.
7.50—News.
8.0—Giuseppina Pozzi and Amelia Anastasi-Quadri (Pftes.), Waltz (Schubert). Romance with Variations (Grieg). Waltz, Alt Wien (Castelnuovo-Tedesco).
8.30—Literary and Art Notes.
8.45-10.25—"La Bohème" (Puccini), by the Orchestra and Cast of La Scala, Milan, with Licia Albanese, Menotti, and Gigli. Conductors: Veneziani and Berettoni (Recorded).

MOSCOW

172 kc/s (1,744 m.); 500 kW.
12.30 p.m.—Talks in Italian.
5.0—Music; Talk; Literature.
9.30—News; Kremlin Chimes.
10.5—Talk (French, German).
12.0 m't.—Talks in Spanish.

MUNICH

MUNICH

740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s
236.8 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—See Saarbrücken.
1.0 p.m.—Time; News.
1.15—See Stuttgart.
2.0—News; Exchange.
2.15—See Berlin.
3.0-3.30—For Children.
4.0—Old Music.
4.40—Talk.
5.0—Time; Weather; Markets.
5.10—Schneider Band, etc.
6.45—Topical Talk.
7.0—Time; News.
7.10—Waltz Records.
7.50—Suite (Gertrud Runge) on Records. 7.50—Suite Gertada Records.

9.0—Records: Chamber Music.

10.0—Time; News.

10.20—Report: The Breslau Gymnastics Festival.

10.35—Concert from Vienna.

12.0 mt.-3.0 a.m. (Thursday)—Records.

NAPLES GROUP

NAPLES GROUP

Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m.
7.0 p.m.—Music; Topical Talk.
7.30—See Rome Group.
7.40—Bologna Mandoline Sextet.
8.0—See Rome Group.

8.30—Alegiani Trio, Song, Il rim-provero (Rossini). Waltz, Früh-lingsstimmen (Strauss). Song, Malia (Tosti). Medieval Ballad (De Lucia). Song, Vieni (Denza). 9.0—A Play. 9.30—Orchestra. 10.0 (approx.)—Dance Music. 11.0—News.

11.0—News. 11.15-11.55—Dance Music.

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW. Transmits at intervals from 6.50 a.m. Fransmits at intervals from 6.50a.m.
8.30 p.m.—Massenet Concert. Station Orchestra, Conductor: Matras, Victoria Fer (Songs). Overture, "Phèdre." Scenes pittoresques. Ballet, "Le Cid."
9.30—See Strasbourg. After the Programme, News.

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.5 p.m.—Bergen Orchestra. Waldemar Johnsen (Songs), Haakon Berge (Pfte.) and Johannessen (Violin).
Hungarian Dance (Brahms). Legend (Dvořák). Sonnwendfeier (Lautenschläger). Ideale (Tosti).
Berceuse (Godard). Elegy (Massenet). Addio (Tosti). Three Hungarian Dances (Köpp). Norwegian Air (Halvorsen). Song (Müller). Four Aces (Mayerl).
6.13—Poem; Talk.
6.43—News; For Farmers.
7.23—Edmund Neupert Anniversary Programme.
8.0—Talk.
8.25—Station Orchestra. Conductor: Kramm

8.0—Talk.
8.25—Station Orchestra, Conductor:
Kramm
8.55—Talk.
9.15—Concert.
9.40—News; Topical Talk.
10.15-11.0—Variety Programme on Records.

PALERMO

565 kc/s (531 m.); 3 kW. Transmits at intervals from 7.45 a.m.

Transmits at intervals from 7.45 a.m. 8.30 p.m.—Light Music. 9.0—"Gli uonini semplici"—One-Act Play (Contri). 9.35—Giuseppe Caminiti ('Cello). Iole Russo at the Pfte. 'Cello and Pfte.: Sonata (Handel). Sonata in F (R. Strauss). Aria and Mazurka (Caminiti). 10.25—Confessions at the Microphone.

phone, 10.35—Dance Music. 11.0-11.50—See Rome Group.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kV Transmits at intervals from 6.30 a.m Transmits at intervals from 6.30 a.m.

7.0 p.m. — Germaine Cernay
(Songs), Passani (Pfte.). Song :
L'horizon chimérique (Fauré).
Pfte.: Valse caprice (Fauré).
Song : Chanson de Bilitis (Debussy).
Pfte. Preludes (Debussy).

7.30—News.
8.0—Lise Daniels (Songs), Hélene
Pignari (Pfte.). Pfte.: Excerpts
from Faschingsschwank aus Wien
(Schumann). Songs (Fauré):
Larmes, Soir, Mandoline, Le
parfum impérissable, En sourdine.
Pfte.: Soirs (Florent
Schmitt).

dine. Pfte.: Soirs (Florent Schmitt).

8.30 (also Lyons (PTT), Bordeaux-Lafayette and Montpellier (PTT)).

"Le beau Métier" — Four-Act Play (Clerc) from the Odéon.

10.30—Records.

11.0-11.15—News.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW Transmits at intervals from 7.10 a.m. Transmits at intervals from 7.10 a.m.,
5.0 p.m. — Schubert Records.
Quartet in E flat. Moment musical. Die schöne Müllerin.
6.0—News; Exchange.
6.10—Jewish Programme.
6.20—Records: Spanish Music.
6.55—Talk, Racing, Records.
7.5—Sports; Amusements; Records.
8.0—Topical Review; Talk.
8.15—Mireille and Jean Nohain.
8.20—"En Correctionnelle" (Diamant-Berger).
8.45—"La bonne histoire."
9.10—Max Regnier and Company.
10.0—News; Music.
10.30—Cabaret.
11.0—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW Transmits at intervals from 6.30 a.m. 2.30 p.m.—Concert for the Blind by the Pasquier Trio, etc. In the interval, "Entrée des Artistes" — Sketch (Bontemps). 4.0—Reading; Talks.

4.30—Marcelle Gavanier (Songs).
4.45—Record; Science Talk.
5.0—Ruellan (Songs).
5.15—Record; Poems; Talk.
5.45—Medical Talk: Cancer.
6.0—Educational.
6.30—Sonatas (Tansman, Honegger)
by Serres ('Cello) and Ady Leyvastre (Pfte.).
7.0—News

vastre (Pitc.):
7.0—News.
8.0—" Au Café du Commerce".
Sketch (Schewaebel).
8.30—See Berlin.
9.30—See Strasbourg.
10.30—Records: Light Music.
10.45—U.S.A. Bulletin.

PARIS (Radio-Paris) PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes; Records.
6.40—News; Gym; Records.
7.15—News; Gym; Records.
8.0-8.45—Trime; News; Records.
9.45—Programmes; For Women.
10.5—Talk; Fashions; Records.
10.45—Readings (Cassou, Romains).
11.0—Records.

10.45—Readings (Cassou, Romanis). 11.0—Records. 11.45—Markets; Water Level; Ex-

change.
12.15 p.m. — Garde Républicaine
Band, Conductor : Dupont,
1.0—Time ; News ; Exchange,
1.30—Elsa Ruhlmann (Songs),
1.45—Band (contd.),
2.0—Programme Notes,
2.5—Music Talk by Wanda Landowska

2.0—Programme Notes.
2.5—Music Talk by Wanda Landowska.
2.13—Talk: The Iliad.
2.30—Exchange; Markets.
2.45—Mme Roger-Miclos (Pfte.).
3.0—Germaine Huber (Songs).
3.15—Talks; Exchange.
4.0—Jeanne Guionie (Songs).
4.15—Jacqueline Heuclin ('Cello).
4.30—Book Review; Poems.
4.50—Markets.
5.0—Bailly Orchestra. Overture,
"Athalie" (Mendelssohn).
Estudiantina (Turina). Suite,
Scene bretonne (Ropartz). Waltz
(d'Ambrosio). Selection,
"Madame" (Christiné). Except, "Eugene Onegin" (Tchaikovsky). Menuet rose (Ganne).
Moment musical (Schubert).
Marche grotesque (Sinding).
6.0—Educational.
6.30—Racing.



Exclusive "World-Radio" Picture Mile. Jane Montange, one of the artists in the Radio-Paris Variety broadcast (9 p.m.)

broadcast (9 p.m.)

6.32 — Lecture - Recital by Louis Aubert: The History of French Opera — Bondeville, Delannoy, Tomasi, Ferroud.
7.28—Programme Notes.
7.30—Talk: England.
7.45—Talk: French Poetry from Villon to Chénier.
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.8—Foreign Affairs.
8.15 — Talk for Young People: American Youth.
8.30—Marko Rothmuller (Songs).
9.0—"Les Ondes de Paris" — Variety (arr. Clérouc); at 9.30—News; Review by Divoire.
10.30—Records. Andante and Hungarian Rondo (Weber). Gavotte and Musette (Bach).
10.45—Time; News.
11.0—Tomorrow's Programmes.

PRAGUE

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.40 p.m. — Records. Madrigals
(Kreici) by the Kabalec
Chamber Choir. Quodlibet
(Bach).
6.5—For Farmers.
6.10—Talk.
6.20—Folk Songs by Alice Arazimová (Soprano).
6.40—Tamburizza Band.
7.0—Time; News.
7.15—Political Talk.
7.25—Sokol Notes.
7.30—See Brno.
7.45—Talk.

8.0—" Miss Seraphina's Pearls "— Operetta (Piskacek), FOC Or-chestra Station Choir, Vojtec Operetta (Piskacek), FOChestra, Station Choir, (Organ), etc.

9.55—Time; News. 10.15-Records. 11.0-11.15—News in French.

RADIO EIREANN

RADIO EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.

10.30-11.45 a.m.—Roman Catholic
Truth Society Conference: High
Mass from Blackrock College,
Dublin.

1.30 p.m.—Records.

2.30-3.0—For Schools.

2.30-3.0—For Schools.

5.30 — Commentary by Molly
O'Brien on the Roman Catholic
Truth Society's Garden Party at
Blackrock College Grounds.

6.0—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara.

6.35—Irish News Feature.

6.45—News.

7.0—On the Road, No. 4—Ballads
and Music.

7.20—Great Irish Names in Modern
Music—Victor Herbert. Speakers:
H. R. White and Philip Dore.

7.50—Operatic Duets by Josephine
Curran (Soprano) and Sam
Mooney (Baritone).

8.10 — Roman Catholic Truth
Society's Annual Meeting at the
Dublin Mansion House. His
Eminence Cardinal MacRory presiding. Address by the Most Rev.
Dr. Michael Browne, Bishop of
Galway.

9.0—Garda Siochana Depot Brass

Dr. Michael Browne, Galway, Galway, 9.0—Garda Siochana Depot Brass and Reed Band. 9.30—Variety Programme. 10.30—News; National Anthem.

RADIO-NORMANDIE

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.

7.10 a.m.—Call; Review; News.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time; Prosperity Programme
—Careers for Girls.
8.30—Tom and Benjie;
8.45—Songs you can never forget
by Fred Hartley and his Orchestra, with Brian Lawrance and
John Stevens.
9.0—Time; Dream Waltzes.
9.15—With the Immortals.
9.30—Tunes we all know.
9.45—Popular Music.
10.0—Time; Music and Song.
11.30—Light Orchestral Music.
11.0—Time; Variety Music.
11.13—Something for Everybody.
11.30—Classical Music.
12.0 noon—Concert.
12.30 p.m.—News; Concert.
2.15—Listen after Lunch.
2.30—Songs we know them by.
2.45—Your Requests.
3.15—Gracie Fields in New Songs
and Old Favourites.
3.30—Morton Downey (Songs).
3.45—Goorge Formby and Beryl,
with John Firman's Orchestra.
4.0—Pleasant Quarter Hour.
4.15—Nadio-Normandie News;
Dance Music.
4.30—Scotch Plaid.
4.45—Instrumental Music,
5.0—Normandie Playbill.
5.15—Bohemian Holiday.
5.30—Normandie Playbill.
5.15—Bohemian Holiday.
5.30—News; Mireille,
8.0—Variety Items.
2.20—Revue with Roméo Carlès
and Pierre Ferrary.
9.0—Olivier Orchestra and Pepin
(Baritone).
11.0—Café Concert.
12.0 m²t.—Melody at Midnight.
12.30-10 a.m. (Thursday)—Time;
Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m.

Transmits at intervals from 6.30 a.m.
4.45 p.m.—News in English.
6.—News.
3.90—Concert from Angers, Conductor: Bilewski. Overture, "The Bohemian Girl" (Balfe). Sicilienne (Boccherini). Selection, "Passionnément" (Messager).
La chanson de sans tambour (Casadesus). Armenian Rhapsody (Snock).

Casadesus). Armenian Rhapsody (Snock).
3.0—News; Records; Talk.
3.0—Orchestra, Conductor: Henderick; Marthe Guy and Henry Bréhé (Songs). Divertissement, Siang-Sin (Hüe). Algerian Suite (Saint-Saëns). Excerpts, "Marouf" (Rabaud). Namouna (Lalo). Songs (Nérini, Roels). Suite, "Peer Gynt" (Grieg). Songs (Larmanjat, Strauss). Entr-acte, Act III, "Lohengrin" (Wagner); News.

ROME GROUP

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m. 5.0 p.m.—News.

5.15—Quintet in E flat (Schumann) by the Italian Quartet and Aprea (Pfte.).

5.55-6.5—For Motorists.

6.40-6.5—Government Notes.

7.1—Talk in German.

7.20—English Lesson; Orchestra.

8.0—News; Talk; Music.

8.30 (Naples (No. 2) only)—Light Music.

Music.
9.0—Military Band, Conductor
D'Elia.

D'Elia.
10.0—Topical Talk.
10.10—Rossi Vecchi (Pfte.). Sonata
in C (Haydn). Cradle Song
(Maciejewski). The Hen-house
(Rozycki). Three Pieces in March
Time (Labroca) Toccata (Sgambati)

11.0—News. 11.15-11.50—Dance Music.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW. Relayed by Kaiserslautern, 1,429 kc/s (209.9 m.). Transmits at intervals from 6.0 a.m. 12.0 noon—Workers' Band, Songs. 1.0 p.m.—Time; News. 1.15—See Stuttgart. 2.0—News.

1.0 p.m.—Time; News.
1.15—See Stuttgart.
2.0—News.
2.15—See Berlin.
3.0—For Gardeners.
3.15-3.45—Chamber Music.
4.0—See Frankfurt; at 5.0—Books.
6.0—"Our Contemporaries"—
Talk with Records.
Talk with Records.
Talk with Records.
7.0—Time: News.
7.10—See Breslau.
7.30—Topical Talk.
8.0—See Vienna.
10.0—Time; News; Music.
10.30—See Vienna.
12.0 m²k.—See Munich.
1.0 a.m. till Close (Thursday)—See Deutschlandsender.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.29 p.m.—Time; News; Records. 1.0—Bob Engel Band. 1.30-1.45 (from Geneva)—Records. 5.0-6.0—See Beromünster.

National
For Time Signals, see Monday.
2.45 a.m. (D)—Heavyweight Boxing
Championship of the World:
Joe Louis v. Max Schmeling,
from New York.
10.15 (D)—Service.
10.30 (D)—Weather Forecast.
10.45 (D)—"At Home Today."
11.5 (D)—The Louis-Schmeling
fight: recorded extracts.
11.25 (D)—For Schools.
11.45 (D)—New English String
Quartet.

11.45 (D)—Yew Lights Quartet.
12.30 p.m. (D)—"At the Black Dog." 1.0 (D)—Records.
1.30 (D)—John MacArthur Quintet.
2.5 (D)—For Schools.
2.50 (D)—"Off Duty."
3.15 (D)—Hotel Victoria Orchestra.
4.0 (D)—"You and your Clothes:"
Alison Settle, 4.15 (D)—Records.
4.45 (D)—Louis-Schmeling fight: recorded extracts.

Alison Settle, 4.15 (D)—Records.
4.45 (D)—Louis-Schmeling fight:
recorded extracts.
5.0—All-England Lawn Tennis
Championships: account of today's play by F. H. Grisewood.
5.10—Records.
6.0—The First News.
6.20—Book talk.
6.40—Berkeley Mason (Organ);
BBC Singers.
7.25—"Rhythm Express."
8.15 — Reginald Foort (BBC
Theatre Organ).
8.40—"Airways and the future of
transport:" Nigel Tangye,
A.R.Ae.S.I.
9.0—The Third News.
9.20—BBC Theatre Orchestra.
10.0—Mid-week Service.
10.20—Winifred Small (Violin);
Maurice Cole (Pfte.).
10.55—Oscar Rabin's Romany
Dance Band.
11.30-12.0—Dance records.

London Regional

National

6.0-6.45—For Young People, 6.55-7.10—Talk: Italian Art. 7.15—Micro-Magazine, 7.50—News.

-Mandoline Band. 8.20—Talk: Travel in Switzerland.
8.35—Concert from Geneva Conservatoire. Orchestra, Conductor: Baud-Bovy; Werner 8.35—Concert from Geneva Conservatoire, Orchestra, ductor: Baud-Bovy; Werner (Flute), Isler (Songs), Perret (Pfte.). Flute Concerto in D (Mozart). Cavatina and Aria, "Figaro" (Mozart). Pfte. Concerto in E flat (Liszt).
9.40—"La bonne aventure"—Sketch (de Carlini).
10.5—International Labour Office Report.
10.30-11.0—Hot Jazz Records.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.20 a.m. 5.5 p.m.-Folk Music and Reading. 5.40—Legal Talk.
6.0—Addresses from the Mi summer Conference in Orebro.
6.40—English Lesson.

7.0—News. 7.30—Psychology Talk.

7.30—Psychology Talk.

7.45—Navy Band from Skansen.
Conductor: Widner. Overture,
"Das Nachtlager von Granada"
(Kreutzer). Waltz, "Faust"
(Gounod). Selection, "Der
Waffenschmied" (Lortzing). Selection, "The Bird Fancier"
(Zeller). Russian Dance, Kukuska
(Lehár). Manhattan Beach
(Sousa.)

8.30—Talk: East Gothland.

9.0—Song Hits by the Waldimir
Orchestra.

9.35—Report: Beneath Stockholm.

10.0—News.

10.15-11.0—Records.

STRASBOURG

859 kc/s (349.2 m.); 100 kW Transmits at intervals from 6.30 a.m. 5.15 p.m. — Concert. March (Eysoldt). Gavotte (Hussonmorel). Romantic Overture (Kéler-Béla). Intermezzo (Razigade). Tennis (Leslie). Selection, "La Navarraise" (Massenet). Slav Dance (Dvořák).

6.0—Economic and Social Notes. 6.30-For Young People.

7.0-News.

7.30—See Rennes-Bretagne.
8.0—News (German, French).
8.30—See Nice-Côte d'Azur.
9.30—'Rose et Colas'' (Monsigny).
Station Orchestra, Conductor: de Villers.

10.30-News (French, German).

STUTTGART

STUTTGART

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
12.0 noon—Workers' Band.
1.0 p.m.—Time; News.
1.15—Orchestra and Dance Band.
2.0-3.0—Records: Light Music,
4.0—Orchestra; at 5.0—Story,
6.0—Records; Topical Talks,
6.45—Echoes of the Breslau Gymnastic Festival.
7.0—News; Talk.
7.45—Station Orchestra, etc.
8.20—"Botschaft des Herzens"—
Play (Hofbauer-Schneider).
9.0—Ludwig Siede Concert. Symphony Orchestra, Conductor:
The Composer.

Play (Hotoauer-Schneider).

9.0—Ludwig Siede Concert. Symphony Orchestra, Conductor:
The Composer.

10.0—Time; News.
10.30—See Vienna.
12.9 m²t.-3.0 a.m. (Thursday)—
Records. Part I, Overtures and Ballet Music. Part II, Pastorale in F for Organ (Bach). Bourrée for Flute and Harpsichord (Scarlatti). Largetto for Flute and Harpsichord (Handel). Pièce en Concert (Rameau). Pfte. Fantasia in D minor (Mozart). Ecossaise (Haydn).

TOULOUSE' (Radio-Toulouse)

Toulouse)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a,m.
6.55 p.m.—News; Sports Notes.
7.15—Musette Orchestra.
7.25—Variety.
7.45—Operetta Music.
8.0—News; Talk.
8.20 — Revue with Pierre Ferrari and Romeo Carlès.
8.55—Talk.
9.0—Fred Adison, etc.
9.30—Selection, "A Waltz Dream" (O. Straus).
10.0—News; Cuban Music.
10.45—Dance Refrains,
11.0—Light Music.
11.45—Dance Music.
12.9 m't.—News.

WEDNESDAY 221 June

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. m.); 7 kW. See Sunday.

Transmits at intervals from 7.45 a.m.

5.0 p.m.—News. 5.15—Mozzati (Pfte.). 5.55-6.5—For Motorists. 7.19 (Rome (No. 2) only)—News in

1.19 (Rome (No. 2) only)—News in English.
1.20-8.30—See Rome Group.
1.30—Opera Records; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Italian Lesson in German.
1.00—Excerpts. "Tristan and Isolda" (Wagner) by Irma Gramatica and Renzo Ricci.
1.00—Talk.

10.0-Talk. 10.10-Operetta Music.

11.0—News. 11.15-11.55—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.0 a.m.

Transmits at intervals from 6.0 a.m.
3.30 p.m. — Schumann and Cornelius Music.
4.0—See Frankfurt; at 5.0-5.10—
A Japanese Fairy-tale.
6.0—Book Review.
6.20—Records: Prelude, "The Kingdom" (Elgar) by the BBC Symphony Orchestra, Conductor: The Composer.
6.30—Topical Talk.
7.0—News.
7.10—"Comrade, where are you?"
8.0—Italian Music. Orchestra, Bagnovini (Tenor), Maria Hinterberger (Mandoline) and the Vienna Mandoline Orchestra.

10.0—News.
10.30—Station Orchestra, Conductor: Sandauer, Mara Wopalenska (Soprano), Borsos (Tenor).
12.0 m't.—See Munich.
1.0 a.m. (Thursday)—See Deutschlandsender.

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m.

5.0 p.m.—Station Dance Conductor: Górzyński.6.0 (from Wilno)—Talk.

6.10-Niitof (Songs).

6.40—Reading: "General Bona-parte" (Anatole France).

parte (Anatoie France).
6.55—Jarzebski (Violin). Sonata in A minor (Veracini). Prayer (Handel - Flesch). Tambourin (Leclair). Caprice (Paganini-Szymanowski).

7.20-Topical Talk.

7.20—Topical Talk,
7.30 (from Poznań)—" The History of the Waltz"—Concert (arr. Kowalik). Station Ensemble. Conductor: Raabe, Moniuszko Mixed Choir, Tillinger Zakrzewska (Soprano) and Bień kowski (Tenor), Waltz, Cosa rara (Martini), Two Waltzes (Mozart). Waltz, "Lilac Time" (Schubert-Berté). Waltz (Chopin). Hofball-tänze (Lanner). Waltz, "The Gipsy Baron" (Joh. Strauss). Waltz, España (Waldteufel). Waltz, España (Waldteufel). Waltz, Elise (Rutkowski). Waltz, "The Count of Luxembourg" (Lehár). Two Hearts and a Waltz Refrain (Stolz). O Frühling, wie bist Du so schön (Lincke). Waltz in A (Brahms). Waltz Potpourri (Löhr). In the intervals, Johann Strauss—Anecdotes.
8.45—News; Topical Talk.

8.45—News; Topical Talk.
9.0—Topical Talk for Country People.

9.10—Chopin Concert—Station Or-chestra. Conductor: Fitelberg. Smidowicz (Pfte.), Danse craco-vienne. Mazurkas, Fantasia on vienne. Mazur Polish Thêmes.

9.55-Sports Notes.

10.5—Symphony Concert—Station
Orchestra, Conductor: Fitelberg,
Orlowska - Czerwińska (Arias),
Overture, "La scala di seta",
(Rossini), Arias, "Otello",
(Verdi) and "The Force of
Destiny" (Verdi), Children's
Symphony (Palester), La jeunesse
d'Hercule (Saint-Saëns).

11.0-11.15-News; Topical Talk in French.

Western

10.45 a.m.-5.0 p.m.—National. 5.0—The Children's Hour. 6.0—Victor Sylvester (Cinema

4.0—International Horse Show:
Edward, Prince of Wales Cup
commentary.
5.0—The Children's Hour.
6.0—"The Silver Spoon," a
comedy with music by Henrik
Ege, with Edwin Ellis, Paddy
Browne, Reggie Purdell, Davy
Bumaby, Mary O'Farrell, Joan
Collier, Ewart Scott, Bruce
Carfax. 6.0—Victor Sylvester (Corgan).
6.40—Architects in Bristol.
7.0—The Second News.
7.20—"Western Notebook."
7.30-10.25—Regional.

Welsh

Burnaby, Mary
Collier, Ewart Scott, Bruce
Carfax.
7.0—The Second News.
7.30—"Under London—Rivers and
Canals:"F. L. Stevens.
7.45—Franz Josef Haydn:
Musical Biography; Helmar
Fernback (Tenor); Cuthbert
Ford (Baritone); George Eskdale
(Trumpet); BBC Midland

Ford (Baritone); George Eskdale (Trumpet); BBC Midland Singers and Orchestra conducted by Leslie Heward.

8.40 — Excerpt from "Follies of 1938," with Gene Gerrard, John Mills, Doris Hare, Bobby Comber, Niela Goodelle, Patrick Waddington, Lyle Evans, Billie Hill, Luanne Shaw, Rosalie Corneille, Oliver Wakefield.

9.20 — Programme of rites, spells, and incantations.

10.0—News Summary.

10.25 — Oscar Rabin's Romany Dance Band, 11.30—Records.

Midland

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20—Midland Announcements.
7.30—"Cricket Interval:" comentaries on current events,
7.45—Regional.
8.40—Norris Stanley Sextet.
9.20-12.0—Regional.

Northern

Manx T.T. Bicycle Race commentaries between 1.50 and 5.0.
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
5.35 approx.—Result of Manx T.T. Bicycle Race.
6.0—Regional.
7.20—A.R.P. News in the North.
7.30—Manchester Pageant in Rehearsal.

7.30—Manchester Pageant in Rehearsal.
7.50—BBC Northern Orchestra conducted by Keith Douglas.
8.40—Regional.
9.20—Recording of the Fair from Newcastle-upon-Tyne.
10.0-12.0—Regional.

London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45—BBC Scottish Orchestra.
11.45—Sidney Torch (Cinema Organ).
12.30 p.m.—BBC Singers (B).
1.0—Light Classical Concert.
1.45—Records.
2.0—BBC Variety Orchestra:
Donald Marvin (Light Baritone).
2.50—Eric Jeffcote's Rhythm Quartet. Quartet.
3.15—Bournemouth Municipal Or-chestra. Conductor, Richard

10.15 a.m.-3.0 p.m.—Regional. 3.0—For Schools in Wales. 3.25-5.0—Regional. 5.0—The Children's Hour.

5.0—The Children's Hour.
6.0—Regional.
7.20—Welsh Announcements.
7.30—Welsh News.
7.45—Air Raid Precautions talk.
8.0—Penarth Ladies' Choir: Edith Williams (Soprano).
8.40—"Breuddwyd Hafnos" (Shakespeare).
9.40—Records. 10.0-12.0—Regional.

N. Ireland

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20—N. Ireland News.
7.30—J. T. Frankland (Organ).
8.0—Ormiston Mixed Voice Choir
F. W. Hodgkinson (Cello).
8.40-12.0—Regional.

10.15 a.m.-2.0 p.m.—National. 2.0—Herring Fishing Bulletin. 2.5—For Schools. 3.30—Mid-Week Service. 4.0-5.0-National.

5.0-The Children's Hour. 6.0 — Reminiscences of old-time Concerts, with Mae Johnstone (Soprano), J. M. Hamilton (Tenor), Florence MacBride (Violin), Jock Wilson (Comedian) and String Trio.

6.40—" At the Highland Show:"
John R. Allan.
7.0—The Second News.

7.20—Scottish Announcements.
7.30—James Hutton (Accordion). 7.40 — United Services Display, from Ibrox Stadium, Glasgow. 8.10-BBC Scottish Orchestra. 8.40-12.0-Regional.

June 23 THURSDAY

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon-2.0 p.m.—See Frankfurt.
2.0—News; Water Level.
2.15—Raue Band.
3.15—Exchange; Markets; Re-

3.15—Exchange, cords.
4.30—Heinrich George tells of his an actor in Cal-

Experiences as an actor in Calderon's "Mayor of Zalamea."
4.50—Books; Records.
5.30—Report: Fighting Forest

5.30—Report: Fighting Forest Fires.
6.0—Hans Bund Band.
7.0—News; Instrumental Records.
7.45—Evening Echoes.
8.0 Poldi Mildner Records.
8.10—See Frankfurt.
10.0—News; Sports.
10.30—See Stuttgart.
12.0 m²t.-3.0 a.m. (Friday)—See Frankfurt.

BEROMÜNSTER

BEROMUNSTER

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.
10.20-10.50—For Schools,
12.0 noon—Records,
12.29-1.45 p.in.—News; Records.
4.30—For Invalids.
5.0-6.0—See Sottens.
6.40—A Nature Calendar.
7.0—Road Report; Records; Talk.
7.45—News; For Schools.
8.0—Lothar Kempter Commemoration.

8.0—Lotnat Kempter
tion.
9.25 — Talk: The Agricultural
Show.
9.45—New German Music.
10.25-10.30—Announcements.

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 8.0 p.m.—A Russian Play (Sukennikov, trans. Hanna Ruppeld-tová).

Hours of Transmission in British Summer Time.

BERLIN

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

BERLIN

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

9.25—Slovak Music from Moravská-Ostrava. 9.55—See Prague. 10.15-11.0—News (Hung.); Records.

BRESLAU

BRESLAU

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

Transmits at intervals from 5.0 a.m.
12.0 noon—Orchestra; at 1.0-1.15
p.m.—Time; News.
2.0—News; Markets.
2.15-3.0—See Berlin.
3.30—Children's Choirs (4,000
Singers) and Reports from
Priebus.
4.0—Orchestra Conductor: Gielnik; at 5.0-5.10—Reading.
6.0—Military Band Records.
6.55—Programmes; News; Markets.

6.0—Military Band Records.
6.55—Programmes; News; Markets.
7.10—Topical Report.
7.25—Report: The "Seefelder."
8.0—Station Orchestra. Conductor: Prade, Male Voice Choir and Jadziejewski (Horn). Overture, "Beherrscher der Geister" (Weber). Songs (Schubert). Scherzo (Schubert). German Dances (Schubert). Horn Concerto (Weber). Songs (Schubert). Romance (Schubert Rischka). Romance (Schumann). Songs (Reger). Heiteres Spiel (Blumer).
10.0—News; Topical Review.
10.30—For Hitler Youth.
10.40—Programme from Stuttgart.
12.0 m²t.-3.0 a.m. (Friday)—See Frankfurt.

BRNO
922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m.—German Transmission:
For Workers; Records; Talk.
6.35—Records.
6.45—News in German.
7.0-10.15—See Prague.
10.15-11.0—Records: Swing Music.

THURSDAY (June 23)

BRUSSELS (No. 1)
620 kc/s (483.9 m.); 15 kW.
6.30-9.5 a.m.—Records; Gym;

620 kc/s (483.9 m.); 15 kW.
6.30-9.5 a.m.—Records; Gym; News.
12.0 noon—Records.
12.30 p.m.—Shipping; Orchestra.
1.0—News; Orchestra; Records.
2.0-2.3—Art Notes.
4.55—Announcements; News.
5.0—Records. Concert Waltz (Glazunov). Slav March (Tchaikovsky). La mia canzone (Tosti). Toy Symphony (Romberg).
5.30—For Children.
6.0—For Women.
6.15—Records: "Faust" (Gounod).
7.0—For Workers.
7.15—Records of Ray Ventura.
7.30—Journal Parlé; News.
8.0—Radio Orchestra. Conductor: Gason. March (Lecocq). Bolero (German). Ballet, "La cocarde de Mimi Pinson" (Goublier). Künstlerleben (Strauss). Quadrille (Métra). Romanian March (Ganne). Overture, "Orpheus in the Underworld" (Oflenbach). Wedding Day on Troldhaugen (Grieg). Moment musical (Schubert). Marche militaire (Schubert). Marche militaire (Schubert). Honews.
10.0—News.
10.10—News.
10.10—News.
10.10—Brenders Jazz Band.

10.0—News. 10.10-11.0—Brenders Jazz Band.

BRUSSELS (No. 2)
932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.
6.30-9.5 a.m. — Records; Gym;

6.30-9.5 a.m. — Records; Gym; News.
12.0 noon—Records.
12.30 p.m.—Orchestra; Records.
1.0—News; Shipping.
1.10-2.0—Orchestra; Records.
4.55—Announcements; News.
5.0—Light Orchestral. In the interval—Records of Tito Schipa and Galli-Curci.
5.45—For Children.
6.30 — Records: "The Gipsy Baron" (Strauss).
6.45—For Invalids.
7.0—K.V.R.O. and Film Notes.
7.3—Van Bouwel (Organ).
7.30—News; Economic Notes.
8.0—Records: "Dance of the Dragonfiles" (Lehár).
9.0—I.N.R. Symphony Orchestra, Conductor; Dejoncker; Toutenel (Baritone). Second Symphony (Brusselmans), Songs (Dejoncker). Variations (Poot). Reitermarsch (R. Strauss).
Waltz, "Der Rosenkavalier" (R. Strauss).
9.30—Credo (arr. Grechaninoy).

Waltz, "Der Rosenkavalier (R. Strauss). 9.50—Credo (arr. Grechaninov). 10.0—News. 10.10-11.0—Records.

BUCHAREST

BUCHAREST

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

Transmits at intervals from 5.30 a.m.
6.0 p.m.—Time; Weather; Art

Review. 6.15—Jazz. 7.5—Talk.

7.50—Talk.
7.20—Songs of the Slav Countries by Pia Igy. Arias from "Russalka" (Dvořák) and "Halka" (Moniuszko). Lullaby (Grechaninov). Finnish Song, Why the Birds sing (Hannikainen). Estonian Song, The Cuckoo's Caresses (Tampe)

Birds sing (Hannikainen). Bstopian Song, The Cuckoo's Caresses (Tamme). 7.45—Records: Violin Concerto (Tchaikovsky). 8.15—Talk. 8.30—Radio Salon Orchestra. Conductor: Bobesco. 9.39—News; Sports. 9.45—Café Concert. 10.45—News (French, German).

BUDAPEST

BUDAPEST
546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.5 p.m.—Station Band; at 12.30
—News.
1.30—Records.
2.35—News.
4.15—For Housewives.
5.0—Dr. Endre Góth.
5.30—Klára Groh (Violin).
5.55—Dr. László Szabó.
6.30—Marches and Dances—Military Band. Conductor: Figedy.
7.30—Dr. József Wodetzky.
8.0—Guitar Band.
9.0—News.
9.25—Farkas Cigány Band.
10.20—Sonatas by Dohnányi (Píte.) and Zathureczky (Violin).
11.10—News (German, Italian).
11.10—Ilniczky Jazz Band.
12.5 a.m. (Friday)—News.

COLOGNE
658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon-2.0 p.m.—See Frank-

2.0-News; Cologne Melodies.

2.0—News; Cologne Melodies,
3.0—Books.
3.20—Willy Clemens (Pfte.),
3.35—Legal Hints; Markets.
4.0—Osnabrück Municipal Orchestra; at 5.0-5. 10—Reading,
6.0—See Deutschlandsender,
6.10—Greti Gnehm (Soprano) and Traut and Hildebrandt (Pftes.),
6.50—Snapshorts; News.
7.10—Station Orchestra. Conductor: Eysoldt, Eisenberg (Baritone). Overture, "Abu Hassan" (Weber). Arias, "The Magic Flute" (Mozart). Overture,
"Figaro" (Mozart). Clog Dance (Lortzing), Aria, "Der Waffenschmied" (Lortzing). Aria and Intermezzo, "Tiefland" (d'Albert). Excerpts, "Cavalleria rusticana" (Massanam).
3.0—550th Anniversary of Coloscience.

"Cavalleria rusticana" (Mascagni).

8.0—550th Anniversary of Cologne University—Talk by the Rector, Dr. von Haberer.

8.15—Concert for the 550th Anniversary of Cologne University—Municipal Orchestra Conductor: Papst, Gürzenich Choir and Edwin Fischer (Pfte.). Egmont Overture (Beethoven). Fest und Gedenksprüche (Brahms). Pfte. Concerto in B flat (Brahms). Hallelujah Chorus (Handel).

10.0—News; Records.

10.30-12.0 m't.—See Hamburg.

12.0 m't.—3.0 a.m. (Friday)—See Frankfurt.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
Transmits at intervals from 5.0 a.m.
12.0 noon—See Breslau.
1.45 p.m.—News.
2.0—Variety—Band and Records.
3.0—Weather; Markets; Exchange.
3.15—Chamber Music—Pftes, and Records.
3.40—Talk for Parents; Pro-

3.40—Talk for Parents; Programmes.
4.0 — Orchestra Conductor: Dobrindt; at 5.0-5.10—Talk.
6.0—For Hitler Youth.
6.10—'Cello Sonata (Strauss).
6.45—Sports; Motto; News.
7.10—New Zealand—Records with Commentary.



M. Toutenel, the Belgian baritone, will broadcast at 9 p.m. from Brussels No. 2 and again at 8.45 p.m. on Saturday from Brussels No. 1

0—" Augsburg "—Sequence o Reports, with Music (arr. Kuh-Reports, with Alesse nert).

10.0—News; Sports.

10.20—Report: The Cycle Tour of Germany—Hanover to Hamburg.

10.30—See Hamburg.

10.45—Weather.

11.0—Music from Hamburg.

12.0 m't.-2.0 a.m. (Friday)—See Frankfurt; at 12.55—Time.

FRANKFURT

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m. 12.0 noon—Orchestra. Conductors

Cujé.

1.0 p.m.—Time; News.

1.15—Orchestra (contd.).

2.0—Time; News; Czernik Records.

3.0-3.30—For Children.

4.0—Bad Orb Orchestra. In the interval, The Roving Microphone.

6.0—Topical Review.

6.30—Records; Sports.

7.10—"Das Weinschiff" — Play (Hartung); Music by Stiebitz.

8.10—Modern Operetta Music — Station Choir and Orchestra. Conductor: Hauck, Eva Schlee (Soprano), Hermann (Tenor), Betty Sedlmayr (Soubrette) and Hertel (Buffo). Excerpts, "Der grosse Name" (Künneke), "Monika" (Dostal), "Abenteuer der Liebe" (Vetterling), and "Balkanliebe" (Kattnigg). 10.0—Time; News; Sports. 10.20—The West Mark—Sequence from Bad Neuenahr (Recorded). 11.0—Music from Stuttgart. 12.0 m"t.-3.0 a.m. (Friday) — Serenade on Records. Part I. Station Orchestra. Conductor: Frickhoeffer. Milly Berber (Violin). Mefisto Waltz (Liszt). Violin Concerto (Senfter). Part II. Centenary of the "Mozart Stiftung des Frankfurters Lieder-kranzes" — Station Orchestra. Conductor: Maurer, Margret Zilcher - Kiesekamp (Soprano), Johannes Willy (Baritone), the "Frankfurter Male Voice Choir (1871), the Polyhymnia Offenbach-Bieber Male Voice Choir and Sonntag (Organ). Cantata, Dir Seele des Weltalls (Mozart). Romantic Overture (Thuille). Song Cycle, Das Alte ist vergangen — Das Neue angefangen (Ochring). Excerpts, "Die Künster" (Zilcher). Part III. French Composers — Overture, "Le Corsaire" (Berlioz) by the London Philharmonic. Conductor: Sir Hamilton Harty, Dance (Debussy). Symphonic Variations (Franck) by Gieseking (Pfte.) and the London Philharmonic. Conductor: Sir Henry Wood. Symphony in B minor (Chausson).

HAMBURG
904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday.
Transmits at intervals from 5.45 a.m.
12.0 noon—Kiel Orchestra.
1.0 p.m.—Weather; Topical Review. view. 1.15—See Frankfurt.

1.15—See Frankfurt.
2.0—News.
2.15—Music.
3.0—Shipping; Markets.
3.25—Brahms and Wolf Records: Chamber Music.
4.0—Orchestra. Conductor: Röder. In the interval, Talk.
5.15—Anecdotes about Liliencron.
6.0—Records: Hitler Youth Songs.
6.39—June Calendar.
6.45—Weather; Shipping; News.
7.10—'' O wat sünd wi Buern vergnöögt! — Play in Dialect (Marten - Hansen) with Folk-Music.

(Marten - Hansen) with Folk-Music.

8.0—See Saarbrücken.

9.30—Records: Violin Concerto in G minor (Bruch) by Alfred Campoli and Symphony Orchestra.

10.0—News.

10.30—Report: Kiel Week.

10.30—Report from Goslar: Harz Motor Sports Week—the Three-Day Central Harz Tour.

10.40 (from Hanover)—Orchestra.

Conductor: von Sosen.

12.0 ni*t.-3.0 a.m. (Friday)—See Frankfurt.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW.
until 8.40 p.m.; 150 kW from
8.40 p.m. Also on Jaarsveld, 722
kc/s (415.4 m.); 17 kW.
7.40-8.55 a.m.—KRO Programme:
Records; at 8.0—Weather.
9.40—Salvation Army Records.
9.55—Service; Records.
10.40 a.m.-1.40 p.m.—KRO Programme.

10.40 a.m.-1.40 p.m.—KRO Programme.
10.40—Records.
11.10—Religious Address.
11.40—Police Messages; Weather.
11.55—KRO Orchestra. Conductor: van 't Woud, Ganne Music.
12.30 p.m.—Records.
12.50—Orchestra (contd.). Opera and Light Music.
1.40 till Close—NCRV Programme.

1.40 till Close — NCRV Programme.
1.40 — Handicrafts.
2.40 — Records.
3.25 — Bible Reading.
4.25 — Records.
4.40 — Handwork for the Young.
5.10 — Light Music — Apollo Quintet.
6.40 — Police Messages; Church

6.40 — Police Messages; Church News.
6.55—Address; Report.
7.45—News; Records.
8.10—Sacred Songs by the Station Choir. Conductor: Couvée. In the intervals, Records; at 8.40-9.10—Report.
9.40—News

9.10—Report.
40—News.
55 (approx.)—Amsterdam Salon.
55 (approx.)—Amsterdam Salon.
55 (approx.)—Amsterdam Salon.
56 (approx.)—Amsterdam Salon.
57 (Approx.)—Amsterdam Salon.
58 (approx.)—Amsterdam Salon.
69 —Peter Arco and the bots.
69 —Poter Arco and the bots.
60 —Peter Arco and the bots.
61 —Peter Arco and the bots.
62 —Peter Arco and the bots.
63 —Peter Arco and the bots.
64 —Peter Arco and the bots.
65 —Peter Arco and the bots.
66 —Peter Arco and the bots.
66 —Peter Arco and the bots.
66 —Peter Arco and the bots.
67 —Peter Arco and the bots.
67 —Peter Arco and the bots.
68 —Peter Arco and the bots.
69 —Peter Arco and the bots.
60 —Peter Arco and the bots.
61 —Peter Arco and the bots.
61 —Peter Arco and the bots.
62 —Peter Arco and the bots.
63 —Peter Arco and the bots.
64 —Peter Arco and the bots.
64 —Peter Arco and the bots.
65 —Peter Arco and the bots.
65 —Peter Arco and the bots.
66 —Peter Arco and the bots.
66 —Peter Arco and the bots.
66 —Peter Arco and the bots.
67 —Peter Arco and the bots.
67 —Peter Arco and the bots.
67 —Peter Arco and the bots.
68 —Peter Arco and the bots.
69 —Peter Arco and the bots.
60 —Peter Arco and the bots.
61 —Peter Arco an

senet). Selection, "Samson and Delilah" (Saint-Saëns). Die Hydropathen (Gungl). Mazurka (Godard). Musikalische Seifenblasen (Urbach); at 10.25-10.40

—Gyni. 11.10—Records. 11.30-11.40—Bible Reading.

HILVERSUM (No. 2)
995 kc/s (301.5 m.); 10 kW.
until 8.40 p.m.; 60 kW from

995 kc/s (301.5 m.); 10 kW, until 8.40 p.m.; 60 kW from 8.40 p.m.; 60 kW from 8.40 p.m.; 60 kW from 8.40 p.m., 7.40 a.m.—Time; Records. 9.40—Service; Records. 10.10—AVRO Orchestra. Conductor: v. Raalte. 11.10—AVRO Orchestra. Conductor: v. Raalte. v. d. Velde (Violin). 11.10—AVRO Orchestra. Conductor: v. Raalte. v. d. Velde (Violin). 11.10—Carl Alberts Orchestra. 12.55—Pierre Palla (Organ). 1.10—Carl Alberts Orchestra. 12.55—Pierre Palla (Organ). 1.10—Carl Alberts Orchestra. 12.60—Kovacs Lajos Orchestra. 1.40—Peronne Hosang (Recitation). 2.0—Kovacs Lajos Orchestra. 1.40—Peronne Hosang (Recitation). 2.40—Violin; Pfte.; Records. 3.40—For Hospitals. 1.40—Pierre Palla (Organ). 1.40—Pierre Palla (Organ). 1.40—Contert Music; Records. 7.20—Interview with Campers. 7.40—Time; News. 7.50—Choral Concert, with Jo Vincent (Soprano) and v. d. Horst (Organ). 8.40—Nijland (Songs). 9.10—Italian Opera Music. AVRO Orchestra. Guest Conductor: Gino Bianchi Rosa, Rina Corsi and Diana Micelli (Sopranos), Luzi and Fort (Tenors), Venturini (Baritone) and Coda (Bass). 9.55—Records. 10.10—Concert (contd.). 10.40—News. 10.50-11.40—Cigány Band from the Kurhaus, Scheveningen.

KALUNDBORG

KALUNDBORG

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s
(255.1 m.).
Transmits at intervals from 7.0 a.m.
12.0 noon-2.0 p.m.—Preil's Ensemble.
2.30—Radio Orchestra. Conductor:
Grondahl; at 3.20—Reading.
4.30—For Children; Notes.
5.0—Poems (Garde, Estvad).
5.25—Weather; Exchange; Markets.
5.50—Records; Talk.
6.35—English Lesson.
7.0—Time; News; Talks.
8.0—Excerpts, "Snow White" (Churchill).
8.20—Danish and Swedish Music.
Radio Orchestra. Conductor:
Tuxen. Rhapsodic Overture, EnFantasirejse til Faereerne (Niesen). Three Danish Schoolboy Songs (Riisager). Sinfonia piccola (Atterberg).
9.10—Bartholdy and Lange-Müller Songs by Thune Stephensen.
9.30-12.0 m't.—Midsummer Eve Festival from Bellahøj. Torchlight Procession. Speeches. Choir of three Thousand three Hundred Children. Commentary on a Relay Race. Music on Bronze Lures. Royal Life Guards Band. Conductor: Dyring. In the interval, News.

KÖNIGSBERG (Heilsberg)

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

(230.2 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon-2.0 p.m.—See Frank-

Transmits at intervals from 5.0 a.m.
12.0 noon-2.0 p.m.—See Frankfurt.
2.0—News; Anniversaries; Variety.
2.55-3.0—Exchange.
3.30—For Children.
3.50—Reading (Ruth Geede).
4.10—Concert (Recorded); at 4.50.
Week-end Hints.
6.0—Summertime — Variety from Insterburg.
6.50—Announcements; News.
7.10 — Report from the NSKK Motoring School at Lyck.
7.25—Records of Famous Artists.
Walter Rehberg (Pfte.); Invitation to the Dance (Weber). Sigrid Onegin (Contralto): Du bist die Ruh (Schubert) and Die Loreley (Liszt). Heinrich Schlusnus (Baritone): Auf dem See (Brahms).
Pau Casals ('Cello): Adagio in A (Boccherini). Elena Gerhardt (Mezzo-Soprano): Wohin (Schubert). Enrico Caruso (Tenor): Neapolitan Song (Barthéemy) and Traurige Heimkehr (Barthéemy).
Georges Boulanger (Violin): Amerikanische Vision (Boulanger).

10.20-Economics-Lessons of the Great War.

10.40—Music from Stuttgart.

12.0 m't.-3.0 a.m. (Friday)—See Frankfurt.

LEIPZIG

LEIPZIG
785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s
(233.5 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—Military Band.
1.0 p.m.—Time; News.
1.15—See Frankfurt.
2.0—Time; News; Exchange.
2.15—Dresden Soloists' Ensemble.
3.20—Reading; Talk.
3.50—Brazilian Bulletin.
4.0—See Deutschlandsender; at
5.0-5.10—Time; Weather;
Markets.

4.0 — See
5.0 - Time; Weather
S.0 - 5.10 — Time; Weather
Markets.
6.0—Talk; The Teutonic Knights.
6.20—Beethoven Recital by Franz
Wagner (Pfte.). Andante favori
in F. Moonlight Sonata.
6.45—Topical Review; News.
7.10—Leipzig Symphony Orchestra.
Conductor: Hilmar Weber, Reinecke (Tenor), Hammerla (Clarinet) and Sammler (Pfte.). Nutcracker Suite (Tchaikovsky). Songs
(Neubeck). Overture, "Die
Feen" (Wagner). Clarinet Conrein (Wagner). Clarinet Conrein (Stark). Spanish Rhapsody cracker Suite (Tchaikovsky). Songs (Neubeck). Overture, "Die Feen" (Wagner). Clarinet Concerto (Stark). Spanish Rhapsody (Ferroni). Songs (Neubeck). Prelude, "Die Abreise" (d'Albert). Arias, "Faust" (Gounod). Excerpts, "Hansel and Gretel" (Humperdinck).

8.45 (from Dresden)—"Pictures of Japan" — Descriptive Sequence (Drescher) with Records.

10.0—News; Sports; Books.

10.40—Music from Stuttgart.

12.0 m't.-3.0 a.m. (Friday)—See Frankfurt.

LILLE (Radio PTT Nord)
1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—Orchestra. Conductor:

Soret.

7.30—Radio Journal; Weather.

8.0—An Old-Time Village Evening—Folk Songs (arr. Delcroix).

9.15—Station Orchestra; News.

MELNIK
1,113 kc/s (269.5 m.); 100 kW.
Transmits at intervals from 6.15 a.m.
9.0 p.m. — Prague Station Orchestra. Conductor: Rieger. Poldi Mildner (Pfte.), Suite, "Le bourgeois gentilhomme" (Richard Strauss), Pfte. Concerto in Aminor (Schumann).
10.15—News; Sports.
10.30-11.0—Dance Records.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 7.50 p.m.—News. 8.0-10.25—See Beromünster.

MONTPELLIER (PTT) 1,339 kc/s (224 m.); 1 kW. Transmits at intervals from 6.30 a.m. 8.30 p.m.—"Werther" (Massenet), from Béziers; News.

MOSCOW 172 kc/s (1,744 m.); 500 kW.
12.30 p.m.—Talks in Italian.
5.0—Music and Literature,
6.0—An Operetta.
9.30—News; Kremlin Chimes.
10.5—Talks (French, Spanish).

MUNICH

MUNICH
740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s
(236.8 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—See Frankfurt.
1.0 p.m.—Time; News; Topical,
1.15—Concert (Recorded).
2.0—News; Exchange.
2.15-3.0—See Hamburg.
4.0—East Mark Composers—Concert from Bayreuth. String Orchestra, Neumann-Wich (Soprano). Folk-Song Suite (Biebl).
Clarinet and Orchestra: (a)
Klage (Rammel), (b) Melodies
(Rammel). Two Movements from the Pfte. Quartet in C sharp minor (Spilling).
4.40 (from Bayreuth)—Reading.
5.0—Time; Weather; Markets.
5.10—Variety Concert (Recorded).
6.45—Topical Report.
7.0—Time; News.
7.10—Talk on the following Programme.
7.15 (from Nürnberg)— "The

7.10—Talk on the following Programme.
7.15 (from Nürnberg) — "The Mastersingers"—Opera (Wagner), from the Opera House. Conductor: Dressel. Cast: Josef Herrmann, Heinz Prybit, Hendrik Drost, Karl Wessely, Heinrich Pflanzl, Heinz Daniel, Trude Eipperle and Carin Carlsson, etc.; at 8.30-8.50—Interval, and at 9.50-10.15—Time; News; Sports.
12.0 m*t.-3.0 a.m. (Friday)—See Frankfurt.

NAPLES GROUP

NAPLES GROUP
Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
Transmits at intervals from 8.30 a.m.
7.0 p.m.—Music; Topical; Records.
8.0—See Rome Group.
8.30—Arlandi Band.
9.10—Sketch.
9.30—Songs at the Pfte.
10.0 (approx.)—Dance Music.
11.0—News.

11.0—News. 11.15-11 55—Dance Music.

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 10.30 a.m. 5.5 p.m. — Stavanger Orchestra. Conductor: Knudsen. 5.45—Service. 6.45—Service.

Conductor: Knudsen.
5.45—Service.
6.45—News; Dances; Talk.
8.0—Variety Programme; Talk.
9.5 — Norwegian Music — Dahl (Songs), Violin, Pfte. Duo, Norwegian Rhapsody (Lange). Berceuse (Brustad). Wedding March (Halvorsen). Songs (Halvorsen). Norwegian Dances (Grieg).
9.40—News.
10.0 — Midsummer's Eve—Programme in Danish, 10.20—The Bonfires are lighted.
11.15-12.0 m't.—Dance Music.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits arintervals from 6.30 a.m.
3.45 p.m.—Cycle of the Trojan
Wars: "Hercuba in Thrace"—
Play after Euripides (Dujardin).
5.45—Records.
6.30—Educational.
7.0—Theatre Review; Records.
7.30—Radio Journal; News.
and Renée Staëlenberg (Pfte.).
Songs (Beydts-Codet) Caprice
and Impromptu (Pierné). Songs,
La fête (Passani-Loryo). Les
Lucioles and Danse de corde (Fl.
Schmitt).

Lucioles and Danse de corde (Fl. Schmitt).

8.30—" Beau Brummell" (Hahn).
Conductor: Labis. In the interval, Talk.

10.30—Records.

11.0-11.15—News.

PARIS (Poste Parisien)
959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 7.10 a.m.
5.0 p.m.—Cabaret.
6.0—News; Exchange.
6.10—"The Adventure Club."
6.25—Thérèse Dorny and Jaboune.
6.55—Records; Racing; Records.
7.5—Sports; Amusement Guide.
7.12—Variety.
7.40—Legal Talk.
7.45—"Les beaux jeudis," with Boulicot and Recordier, etc.
8.0—Topical Talk.
8.10—"Les Frères Jacasse."
8.15—Music-Hall, with Germaine Sablon, André Myr and the Harmonica Boys.
8.50—Talk.
9.10—Lecture-Recital: Richard Tauber.

8.50—Talk.
9.10 — Lecture-Recital: Richard
Tauber.
10.0—News; Records.
11.15—Programme from Bagatelle.
12.0 m't.—News.

PARIS (PTT)
695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
3.10 p.m.—See Tallinn.
4.0—Records: Talks.
4.30—For Children: "Cendrillon"

4.0—Records: Talks.
4:30—For Children: "Cendrillon" (Lenôtre).
5:30—Reading (Mille).
5:45—Grammar Lesson; Talk.
6:0—For Farmers.
6:15—Talk: Public Health.
6:30—A Visit to the Cathedral at Amiens conducted by Norbert Dufourcq, with André Marchal and Georges Durand—Vierne Commemoration. Sur le Rhin. Communion. Allegro from the Fourth Symphony.
7:0—Radio Journal; News.
8:0—Radio Fantasy (P. and R. Constantin Brive), with Maud Gipsy, Molly Boulanger, Hieronimus, and the Authors.
8:30—"Le Véritable Vercingetorix"—Play (Carel). by the "Art et Travail" Plavers.
10:30—News; Records.

6.16—Talk: Public Health.
6.30—A Visit to the Cathedral at Amiens conducted by Norbert Dufourcq, with André Marchal and Georges Durand—Vierne Commemoration. Sur le Rhin. Communicon. Allegro from the Fourth Symphony.
7.0—Radio Journal; News.
8.0—Radio Fantasy (P. and R. Constantin Brive), with Maud Gipsy, Molly Boulanger, Hieronimus, and the Authors.
8.30—"Le Véritable Vercingetorix"—Play (Care!), by the "Art et Travail" Plavers.
10.30—News; Records.
11.30—News; Gym; Records.
6.40—News; Gym; Records.
8.0 8.45—News; Gym; Records.
8.0 8.45—Reading: Records.
10.45—Reading: Records.
10.45—Reading:

1.0—Time; News; Exchange., 1.30—Morturier (Songs). 1.45—Cantrelle Orchestra.

1.0—Time; News; Exchange.
1.30—Morturier (Songs).
1.45—Cantrelle Orchestra.
2.0—Programmes.
2.5—Talk: King Carol of Romania.
2.30—Exchange; Markets.
2.30—Exchange; Markets.
2.45—Mme Lionel-Duval (Songs).
3.0—Eudes (Liszt, Chopin, Stravinsky), by Mme Martinet-Dumont (Pfte.).
3.15—Talk: The Japanese Theatre.
3.25—Film Talk.
3.35—For Sportsmen; Exchange.
4.0—Maya Féline (Songs).
4.15—Educational.
4.45—Exchange; Markets.
5.0—"Le Menteur" — Five-Act Play (Corneille), by the Odeon Players.
6.30—Racing; Talks; Programmes.
7.0—Educational.
7.30—Talk: England.
7.45—Talk: Gambetta.
7.59—Time; Foreign Affairs.
8.6—Home Affairs.
8.15—Jacqueline Roussel ('Cello).
Adagio-Allegro (Schumann). Aria (Ibert). Fileuse (Fauré).
8.30—Symphony Concert—National Orchestra. Conductor: Inghelbrecht, Mille Bonny-Pellieux (Soprano). Symphony (Rivier). Soprano and Orchestra: Symphonic Poem, A la lumière (Büsser). Night on the Bare Mountain (Mussorgsky). Excerpts. "Pelléas et Mélisande" (Fauré). Three Dance Poems (Inghelbrecht). Marche écossaise (Debussy).
10.30—Talk; Mayerl.
10.45—Time; News; Programmes.

PRAGUE

PRAGUE
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m.—For Farmers.
6.10—For Workers.
6.20—FOC Orchestra. Conductor:
Pekárek.
7.0—Time; News; Topical.
7.25—Sokol Notes.
7.30—Serenade in E flat (Suk) by the Czech Philharmonic. Conductor: Stupka (Recorded).
8.0 — "Illusion comique"—Play (Corneille).

8.0 — "Illusion comique"—Play (Corneille).
9.30—Slav . Dances (Dvořák) by Strausz and Latzko (Pfte. Duo).
9.55—News ; Review ; Sports.
10.15—See Brno.
11.0-11.15—News in English.

RADIO EIREANN

RADIO EIREANN

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.

1.30 p.m.—Records.

2.30-3.0—For Schools.

5.30—New Talent.

6.0—Choir from Mercy Convent,
Galway.

6.20—Scéalta 6'n mBealoideas—
Sorcha Ni Ghuairim.

6.35—Irish News Feature.

6.45—News.

7.5—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara.
Hubert Valentine (Irish and
Anglo-Irish Songs).

7.50—"The Tie that binds"—
Radio Play (George Mitofsky)
produced by John Stephenson.

8.30—Viola McCarthy ('Cello).

8.50—Bonfire Night—Sean O'Suilleabhain.

9.5—Irish Traditional Airs by P.

8.50—Bonfire Night—Sean O'Suil-leabhain.
9.5—Irish Traditional Airs by P.
McCahill (Fiddle) and Luke
McGarr (Accordion).
9.30—Variety Programme.
10.30—News.
10.45—Eyewitness Account of the
Irish Golf Championship.
11.0—National Anthem.

RADIO-NORMANDIE

5.30—Request Music.
6.0—Markets.
6.5 — Orchestra. Offenbachiana (Conrad - Daeblitz). Sclection, "The Maid of the Black Forest" (Jessel). Overture, Le Carnaval romain (Berlioz). Excerpt, "Der Rosenkavalier" (R. Strauss).
6.45—Talk; News; Racing.
7.0—Light Music.
7.30—News; Talk.
7.50—Light Music.
8.20—Operetta Music. Excerpts, "The Love Parade" (Schertzinger), "Mam'zelle Nitouche" (Hervé), "Au Soleil du Mexique" (Yvain), "Toi c'est moi" (Simons).
9.0—Concert—Musette Orchestra, Moque (Saxophone), M. Babault and Arlette Theresol. In the interval, Talk.
11.0—Café Concert.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Friday)—Time; Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
8.30 p.m.—Offenbach Concert—
Singers and the Station Orchestra. Conductor: Henderick. "Le
Violoneux," "La Rose de
Saint-Flour." Excerpts, "Madame
Favart." "The Tales of Hoffmann." and "The Drum
Major's Daughter." After the
Concert; News; Music.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.) : 120 kW. Bari (No. 1), etc.

Rome (No. 1), 713 kc/s (420.8 m.): 120 kW. Bari (No. 1), etc. See Sunday.
Transmits at intervals from 8.30 a.m. 5.0 p.m.—News.
5.15—Madami Quartet. Concertino in D minor (Pergolesi). Passepied (Bach). Allegro and Minuet (Handel). Waltz, Quadrifoglio (Madami).

(Handel). Waltz, Quadrifoglio (Madami).
5.50—Aviation Notes; Weather.
6.0—For Merchant Shipping.
6.25-6.35-Talk.
7.0—Talk in Czech.
7.20—Dopolavoro Notes.
7.30—See Turin Group.
8.0—News; Talk; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—"La via della finestra" (Zandonai). Conductor: The Composer. Choir Master: Consoli. Cast: Iris Adami Corradetti, Giuseppina Sani, Adriana Perris, Augusto Ferrato, Giuseppe Noto and Ubaldo Tofanetti.
11.0 (approx.)—News.
11.15-11.55—Dance Music.

SAARBRÜCKEN

SAARBRUCKEN

1.249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429
kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon-2.0 p.m.—See Frankfurt.
2.0—News.
2.15—See Berlin.
3.0-3.30—Fairy-tales.
4.0—Sec Deutschlandsender; at
5.0-5.10—Periodicals.
5.45—Book Review.

4.0 — See Deutschlandsender; at 5.0-5.10—Periodicals.
5.45—Book Review.
6.0—Light Music—Soprano, Baritone, Ocarina, and Two Pftes.; at 7.0-7.10—Time; News.
7.30—Topical Report.
8.0—Malachowski Dance Band from Bad Dürkheim. In the interval, "Besuch am Abend"—Humorous Sketch (Rösler).
9.30—The Baltic Coast—Sequence in Words and Music (Frotscher); Speakers, Chamber Choir, and Station Orchestra. Conductor: Schrimpf.
10.0—Time; News; Frontier Notes.
10.20—Chopin Recital by Ludwig Resch (Pfte.). Preludes. Nocturnes. Impromptu. Waltz. Ecossaises.

Ecossaises.
10.45—Music from Stuttgart.
12.0 m²t.-3.0 a.m. (Friday)—See Frankfurt.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12. " n.m. — Time; News; Re-

cords. 1.20-1.45—Records: "Les Noces"

1.20-1.45—Records: "Les Noces" (Stravinsky).
5.0—Geneva Radio Ensemble,
5.30—Odette Robert (Pfte.).
6.0—For Children.
6.40—Records: Sonata for Flute and Pfte. (Casadesus).
7.0—For Dairy Farmers.
7.10—Talk: Choosing Professions.
7.20—The Narcissus Festival, Montreux.
7.30—Music.
7.50—News.
8.0—French-Swiss Songs. Conductor: Haug.

THURSDAY (June 23)

8.30—" La Femme de Claude"—
Play (Dumas, fils) by the Compagnie des Deux Masques.
10.0-11.0—Symphony Concert—
Radio Suisse romande Orchestra.
Conductor: Haug; Goldenhom (Pfte.). Pfte. Concert in Cominor (Beethoven). Symphony in Cominor (Brahms).

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.20a.m. 5.5 p.m.—Gluntarna (Bellman) sung by Olle Wahlström and Carl by Olle Wallion Skylling. 30—Talk: Danish Summer Re-

5.30—Talk: Danish Summer Resorts.
6.0—Records.
7.0—News; Weather; Topical.
7.30—Report: Midsummer Eve at a Smaland Manor.
8.15—Midsummer Cabaret,
9.0—Report: Midsummer Eve at Sandviken.
9.30 (from Göteborg)—Old Dances.
10.0—Weather.
10.5—Radio Dance Band.
11.0-12.0 m²t.—Midsummer Eve—Records.

STRASBOURG

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30a;m.
7.30 p.m.—Mme Manlet-Guntz
(Mezzo - Soprano) and Jeanne
Wolferstaedter (Pfte.).
8.0—News (German, French).
8.30 — Midsummer's Eve Programme. Part I: Introduction,
Theme and Variations, Pour la
Saint Jean (Le Boucher) by
Grégoire, Laumet and Kauffmann (Violins) and the Station
Orchestra Conductor: de Villers.
Part II: "La Nuit de Saint
Jean" (Lacôme).
9.45—Fourth Symphony (Brahms)
from the Music Festival at the
Palais des Fêtes, Municipal Orchestra. Conductor: Franz v.
Hoesslin.

Hoesslin. 10.45—News (German, French).

STUTTGART

574 kc/s (522.6 m.); 100 kW Transmits at intervals from 5.45 a.m. 12.0 noon-2.0 p.m.—See Frank-

Transmits at intervals from 5.43 a.m.
12.0 noon-2.0 p.m.—See Frankfurt.
2.0-3.0—Records.
4.0—Baden-Baden Spa Orchestra.
Conductor: Assmus.
5.0—Station Orchestra from Baden-Batten. Conductor: Bara. Gabriele Possinke (Soprano) and Jautz (Tenor).
6.0—Musical Tuition—Humorous Sequence (Fischer).
6.30—Topical Talk; In the interval, Echoes of the Reich Students' Day in Heidelberg.
7.0—News; Calendar; Records.
8.10—See Frankfurt.
10.0—News; Sports.
10.30—Folk-Music and Light Music.—Station Orchestra. Conductor: Bara, Müller (Baritone), Hildegard Hüfner-Grüninger (Soprano) and Faiss (Guitar).
12.0 m*t.-3.0 a.m. (Friday)—See Frankfurt.

TALLINN

TALLINN

731 kc/s (410.4 m.); 20 kW.

7.0 a.m.—Records.

8.0—Military Parade and Address by the President of the Republic.

8.55—Service from the Cathedral.

1.0 p.m.—Commentary on the March Past of the Estonian Choral Festival Singers.

3.10—Opening of the Eleventh Estonian Choral Festival. Choral Nun danket alle Gott. Addresses by the President of the Estonian Choral Society and the President of the Republic. Anthem. Choirs: Songs (Tobias, Türnpu, Härma, Vork, Läte, Kapp, Aav, Vettik, Ernesaks, Aavik, Oja, Nerep, Saar). Community Singing of Patriotic Songs (Aav, Saar).

6.30—For Children.

6.50—Records: Estonian Dances.

7.30—Talk; News; Reports.

8.5—Old Dances; Reading.

9.15—To be announced.

9.55—Time; News.

10.0 (Weather Permitting)—Open-Air Performance of "Our Freedom" — Play (Visnapuu); Music by Kapp.

TOULOUSE (Radio-

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.55 p.m.—News; Sports Notes.
7.15—Operate Music

7.45—Dance Refrains; News.
8.0—Light Music.
8.25—Talk; Light Music.
9.10—Talk; Light Music.
9.30—"Un beau dimanche"—
Fantasy.
10.0—News; Light Music.
10.35—Musette Orchestra.
10.45—Chansonnettes.
11.0—Marches; Light Music.
11.45—Dance Music.
12.0 m*t.—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 8.30 a.m.

Transmits at intervals from 8.30 a.m.
5.0 p.m.—News.
5.15 — Maria Fiorenza Ciampelli (Soprano) and Giraldone (Baritone).
5.59-6.35—See Rome Group.
7.19 (Rome (No. 2) only)—News and Talk in English.
7.20—Dopolavoro Notes.
7.30—String Orchestra.
8.0-8.30—See Rome Group.
8.30—Records: Light Music; at
8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Talk
in German.
9.0—"Partire" — Three-Act Play
(Gherardi).

9.6—" Partire" — Three-Act 19. (Gherardi).
10.30 (approx.)—Dance Music.

11.0-News. 11.15-11.55-Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.0 a.m.

Graz, etc. See Sunday.

Transmits at intervals from 6.0 a.m.

12.0 noon—Orchestra. Conductor:
Schönherr.

1.0 p.m.—News; Weather.

1.15—See Frankfurt.

2.0—News; Records.

3.0-3.15—News.

3.0-3.15—News.

3.0-Schubert and Schumann Music—Magg ('Cello), Tausche (Baritone) and Folba (Pfte.).

4.0—Vienna Symphony Orchestra. Conductor: Kattnigg. Overture.

"The Daughter of the Regiment" (Donizett). Concert Suite from "Idomeneo" (Mozart-Busoni). Concerto (Pachernegg). Tafelmusik (Telemann). Overture, "Boccaccio" (Suppe). Gopak (Tchaikovsky). Die Romantiker (Lanner). Excerpts, "Wild Violets" (Stolz). Spanish Suite (Albeñiz). Nachtmusik (Heuberger). Waltz, "Eva" (Lehâr). Excerpts, "Filmzauber" (Kollo). Bravourmarsch (Schönherr); at 5.0-5.10—Reading.

6.0—Reading.

6.0—Seading.

6.0—Reading.

6.0—Re

(Songs). 0—A Radio Picture-Book, with 9.0 Music

Music.
10.0—News.
10.20—See Frankfurt.
11.0—Music from Stuttgart.
12.0 m't.-3.0 a.m. (Friday)—See Frankfurt.

WARSAW

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m.

Cracow, etc. See Sunday.

Transmits at intervals from 6.15 a.m.,
3.50 p.m. (approx.) (from Poznań) — Lithuanian, Latvian, Estonian and Finnish Folk Songs.
4.45—Report.
5.0—Dance Records. In the interval—Programme Notes.
6.0—Book Review.
6.10—Czosnowski (Clarinet) and Urstein (Pfte.). Concerto in Efat (Weber). Tzigane (Dukas).
Le petit nègre (Debussy).
6.30 (from Lwow)—Play (Bronczyk).
Music by Esben.
7.5—Leska (Songs). Aria, "Titus" (Mozart). In questa tomba (Beethoven). Die Forelle (Schubert).
Two Songs (Liszt).
7.25—Topical Talk.
7.35 (from Katowice)—Dance Band, Jagiclski (Accordion), etc. In the interval—Sketch.
8.45—News; Topical Talk.
9.0—Forestry Notes.
9.10—Songs by Godlewska, Czekotowski and the Station Quartet.
9.50—Sports Notes.
10.0—Chamber Music. The Trout Quintet (Schubert). Quintet (Hummel).
11.0-11.15—News; Topical Talk (German)

FRIDAY June 24

National

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45 (D)—"General Hygiene." 10.30 (D)—Weather Forecast.
10.45 (D)—"General Hygiene,"
by a Health Visitor.
11.0 (D)—For Schools.
11.50 (D)—Frederick Dalrymple (Organ).
12.20 p.m. (D)—Brian Lawrance's Orchestra.
1.0 (D)—"My People the Maoris: "Captain T. Tawera Moana.

1.0 (D)—" My People the Maoris: "Captain T. Tawera Moana.

1.15 (D)—New English Quartet.

2.5 (D)—For Schools.

4.0 (D)—BBC Midland Orchestra.

5.0—All-England Lawn Tennis Championships: account of today's play by F. H. Grisewood.

5.10—Records.

5.30—England v. Australia.

6.40—Muriel Brunskill (Contralto).

7.0—New Georgian Trio.

7.30—Madrigals.

8.0—The Old Music-Halls, with Bertha Willmott, Tessa Deane, John Rorke, Denis O'Neil, Fred Douglas.

9.20—Your Visit to Scotland—the Highlands and Islands, by Compton Mackenzie.

9.35—International Society for Contemporary Music: Concert from Queen's Hall; BBC Orchestra; Sophie Wyss (Soprano); Parry Jones (Tenor); William Parsons (Bass), conducted by Paul Sacher.

10.40—Joe Marsala's Band.

11.15—Jack Harris's Band.

11.30-12.0—Dance records.

London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45—John Bee (Cinema Organ).
11.25—England v. Australia.
11.40—Voiet Carson (Songs).
11.55—Willie Walker Octet.
12.30 p.m.—Test Match commentary.
12.40—The Reisacher Quintet with Alfred Porkert (Clarinet); Lax Lang (Trumpet; Basle Folksong Quartet, Max Eglin (Yodeller), from Basle.
1.15—Test Match commentary.
1.35—Records.
1.46—Reginald Foort (BBC Theatre Organ). London Regional

1.45—Reginald Poort (DDC)
Organ).
2.15—See 1.15. 2.30—Records.
3.0—Carlton Hotel Orchestra.
3.30—Harold Craxton (Pfte.).
4.0—Records. 4.30—See 1.15.
4.35—"In and Out of Rhythm."
5.0—The Children's Hour.
6.0—Serge Krish Septet.
6.45—"The Week in Westminster: "Richard Acland, M.P.
7.0—The Second News.
7.20—Regional Bulletin for Farmers.

7.20 — Regional Bulletin for Farmers.
7.30—Sid Merriman's Music.
8.0—BBC Northern Orchestra R. J. Forbes (Pfte.).
9.0—Hungarian Gipsy Party.
9.45—A.R.P.: Herbert Morrison M.P., and Commander Firebrace.
10.0—News Summary.
10.25—Jack Harris's Band.
11.30—Records.
11.50-12.0—Late News Summary.

Midland

10.15 a.m-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Teversal Colliery Band: Irene Hinsley (Soprano).
6.45—Regional.
7.20—Midland Announcements.
7.30—Regional.
8.0 — Birmingham Philharmonic String Orchestra.
9.0—Regional. 9.45—Variety.
10.0-12.0—Regional.

Northern Northern
10.15 a.m.-5.0 p.m.-Regional.
5.0—The Children's Hour.
6.0—John Howlett (Cinema Organ).
6.30 — Lincolnshire Agricultural
Show, 6.45—Regional.
7.20—Brief Chronicle.
7.30-12.0—Regional.

Western
10.45 a.m.-6.0 p.m.—National,
6.0—Sports Talk,
6.20—Records, 6.45—Regional,
7.20—Western Announcements,
7.30—Records of Vienness Waltzes,
7.45—For Western Gardeners.

8.0-University of Bristol Madrigal

Singers: Joy Bushon (Oboe and Cor Anglais).

8.45—Programme of Sun-Dials and Sun-Dial Inscriptions for Midsummer's Day.

9.0-10.25—Regional.

Welsh

Welsh
10.15 u.m.-5.0 p.m.—Regional,
5.0—The Children's Hour.
6.0—BBC Welsh Orchestra: Nina
Rochard (Viola),
7.0—The Second News.
7.20—Welsh Announcements,
7.30—Regional.
8.0—Llanelly Silver Band: Tom
Williams (Baritone),
9.0—Welsh Gardening talk,
9.15—"Holidays with Play," from
the Coliseum, Rhyl.
9.45—"Welshmen as Settlers:"
Goronwy Rees.
10.0-12.0—Regional.

N. Ireland N. Ireland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20—N. Ireland News.
7.30—Regional.
8.0—BBC N. Ireland Orchestra.
9.0—Leonard Lovesey's Entertainers, 9.30—Shanties,
10.0-12.0—Regional.

Scottish

Scottish

10.15 a.m.-2.0 p.m.—National
2.0—Herring Fishing Bulletin,
2.5—For Schools,
3.15-5.0—National,
5.0—The Children's Hour,
6.0—"The Week-end out of
Doors" and "Saturday Sport,"
6.15—Rhythm Classics,
6.35—"Next Week You'll Hear,"
6.45—Regional,
7.20—Scottish Announcements,
7.30—Regional,
8.0—"The Palace of Art;" D. S.
MacColl,
8.15—Gaelic programme,
8.45—"The Week in Scotland,"
9.0—"1314 and A'yon,"
9.45-12.0—Regional.

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon-2.0 p.m. — See Saar-brijeken

12.0 noon-brücken.
2.0—News; Water Level.
2.15—Raue Band.
3.15—Exchange; Markets; Re-

5.13—Exchange; Markets cords.
4.30—Sports Notes.
5.0—Baritone Ballads; Pfte.
5.30—Talk: Hitler Youth.
6.0—Bund Band.
7.0—News.

6.0—Bund Band.
7.0—News.
7.10—Raue Band.
7.45—Evening Echoes; Records.
8.30—Third Symphony Concert for Hitler Youth. Station Orchestra. Conductor: Heinrich Steiner. Wührer (Pfte.). Arie e danze antiche (Respighi). Pfte. Concerto in A (Liszt). First Symphony (Brahms).
10.0—News; Road Report.
10.30—See Leipzig.
12.0 m't.-3.0 a.m. (Saturday)—See Königsberg.

BEROMÜNSTER

BEROMÜNSTER

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

6.13-6.35 a.m. (from Berne)—Gym.
12.0 noon — BBC Military Band
(Records).
12.29 p.m.—Time; News; Exchange.
12.40—Swiss Folk Music.
4.30—Records.
5.0—Concert.
6.0—Weather; For Children.
6.30—For Children.
6.35—Records: Viennese Music.
7.0—Time; Markets; Announcements.

7.0—Time; Markets; Announcements.
7.10—Topical.
7.15—To be announced.
7.45—News.
7.55—Weekly Sound Review.
8.5—Berne Municipal Orchestra.
Conductor: Jaeggi.
8.35—Peter Rosegger Programme.
9.15—Folk Songs.
10.25-10.30—Announcements.

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—Hungarian Talks.

6.45—News in German.
7.0-8.45—See Prague.
8.45-9.55—Programme from Kosice,
1,158 kc/s (259.1 m.).
8.45—Death of the Paper—Play
(Fritsch-Weisz, trans. Kolá).
9.20—Orchestra.
9.55-11.0—See Prague; at 10.15—
News (Hungarian).

BRESLAU

BRESLAU

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

Transmits at intervals from 5.0 a.m.
12.0 noon—Fierke Quintet; at 1.01.15 p.m.—Time; News.
2.0-3.0—News; Records.
4.0—Station Orchestra, etc.; at
5.0-5.10—Reading.
6.0—Book Talk.
6.20—Goldberg Variations (Bach).
6.50—Notes; Markets; News.
7.10 (from Gleiwitz) — Miners'
Band, Mandoline Band, Street
Singers, Accordion.
9.0—Sound News.
9.15—See Cologne.
10.0—News; U.S.A. Bulletin.
10.30—See Leipzig.
12.0 m't.-3.0 a.m. (Saturday)—See
Königsberg.

BRNO
922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m.—German Talks.
6.35—For Scouts.
6.45—News in German.
7.0-8.45—See Prague.
9.0—Final Scenes, "Mignon"
(Thomas), from the Opera.
Conductor: Tausky. Cast:
Rezničková, Ledererová, Talman,
Pribytkov, Pelz and Sima.
10.10-11.0—See Prague.

BRUSSELS (No. 1)
620 kc/s (483.9 m.); 15 kW.
6.30-9.5 a.m. — Records; Gym 12.0 noon-Records.

5.59-5.3 a.m. — Records; Gym; News.

12.30 noon—Records.

12.30 p.m.—Shipping; Orchestra; at 1.0-1.10—News.

1.30—Records: "La vie parisienne" (Offenbach).

2.0—Art Notes.

4.55—Announcements; News.

5.0—Orchestra. Conductor: Souris. Marguerite Jacques (Songs), Ferari (Violin). Danceries de la Renaissance (Gervaise - Souris). Romance (Bosmans). Excerpts, "Izey!" (Pierné). Three Songs (d'Agrèves). Das Fest der Infantin (Gebhardt). Berceuse (Wigy). Selection, "The Pearl Fishers" (Bizet).

6.0—Talk: Transport Policy.

6.15—For Ex-Servicemen; Records.

6.30—Cabaret.

7.0—Dialogue by "Les Btapes" Dramatic Society of Forest.

7.15—Competition.

7.30—Journal Parlé; News.

8.0-10.0—For Ex-Servicemen.

8.0—Marches and Songs—Grenadiers Band. Conductor: De Ceuninck. Géodel (Baritone).

8.30—"The First Consul's Visit to Liége" — Historical Sketch (Degey).

Liége" — Historical Sketch (Degey).

9.0—Band, etc. (contd.). La Garde passe (Grétry). Danses villageoises (Grétry-Prévost). Four Songs. March (Caplet). Selection, "The Daughter of the Regiment" (Donizetti). March (Offenbach-Degrez). March (Vidal). Vers Pavenir (Geevaert).

10.0—News; Records.

10.25—Dance Records.

10.35-11.0—March (d'Hazet).

BRUSSELS (No. 2) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m. — Records; Gym;

6.30-9.5 a.m. Records,
News.
12.0 noon—Records.
12.30 p.m.—Salon Orchestra.
1.0—News; Shipping.
1.10—Brenders Jazz Band.
1.30-2.0—Records: Dutch Songs.
4.55—News; Records,
5.45—For Children; Talk.
6.30—Records: Pfte. Concerto in E flat (Liszt), with Gieseking;
Talk.

6,30—Records: Pfte. Concerto in E flat (Liszt), with Gieseking; Talk.
7.0—Records. Overture, "Hamlet" (Tchaikovsky) by the London Symphony Orchestra. Persian Dances (Mussorgsky), by the Milan Symphony Orchestra. Conductor: Molajoli. Islamey (Balakirev-Casella). Conductor: Goossens.

kirev-Casella). Colludetor Gosasens.
7.30—I.N.R. Review.
8.0—Belgian National Orchestra.
Conductor : Meulemans, Maria
Van der Meirsch (Soprano).
Overture, "Aeneis" (Uyttenhove). Three Songs. La fontaine de Plinius (Meulemans).
8.45 — Talk : The Sixth Flemish
National Singing Pestival.

9.0—Orchestra (contd.), Symphony in D minor (Franck), 9.65—Announcements; News, 10.10-11.0—Ballet Records.

823 kc/s (364.5 m.); 12 kW.
Relayed by Radio-Romania, 160 kc/s (1,875 m.).
Transmits at intervals from 5.30 a. m.
6.0 p.m.—Science Review; Two Pftes.
6.40 — Neapolitan Songs by Aurel Alexandresco and the Fazla Mandoline Band.
7.0—Talk; Oboe Solos.
7.40—Talk.

7.40—Talk. 8.0—Records: "Carmen" (Bizet); at 8.45—Sports; at 9.30—News and at 10.15—News (German, English).

BUDAPEST

Transmits at intervals from 6.45 a.m.
12.5 p.m.—János Erdélyi (Violin) and Miklós Rékai (Harp).
12.30—News.
1.30—Sándor Bura Cigány Band.

1.30—Sándor Bura Cigány Band.
2.35—News.
5.0—Municipal Transport Workers'
Orchestra. Conductor: Müller.
6.15—For Soldiers.
6.45—Hungarian Songs on the Pfte.
by Frau Langsfeld.
7.10—Reading.
7.50—Records: "La Traviata"
(Verdi).
9.50—News.
10.15—Angyal Jazz Band.
11.0—News (English, French).
11.10—Farkas Cigány Band.
12.5 a.m. (Saturday)—News.

COLOGNE

COLOGNE

658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon—Orchestra, Pfte.
2.0 p.m.—News.
2.10—Light Music.
3.0—Folk-Music; Talks; Markets.
4.0—Orchestra and Band from Danzig; at 5.0-5.10—Reading.
6.0—Talk: Whaling.
6.30—Wandererfantasie (Schubert).
6.50—Snapshots; News.
7.10—Station Orchestra. Conductor: Eysoldt. Comedy Overture (Lautenschläger). Dance Suite (Mausz). Helvetia (Scassola).
Dances, "Le Cid" (Massenet).
Selection, "The Girl of the Golden West" (Puccini). In the intervals, Reports from Gelsenkirchen.

intervals, Reports from Gessik kirchen.

8.35—Records: Beautiful Voices,

9.15—" Burschen heraus!"—University Anniversary Play (Hoffmann).

10.0—News; Records.

10.30—See Leipzig.

12.0 m*t.-3.0 a.m. (Saturday)—See Königsberg.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 12.0 noon-1.45 p.m.—See Frank

Transmits at intervals from 3.0 a.m.

12.0 noon-1.45 p.m.—See Frankfurt.

1.45—News.
2.0—Jäger Band and Records.
3.0—Markets; Children's Choir.
3.30-5.0—See Frankfurt.
5.0—Topical Talks.
5.10—Concert from Frankfurt.
6.0—Records; Talks.
7.0—Motto; News.
7.10—Olschewski Band, Songs.
8.0—Station Orchestra. Conductor: Dobrindt. Kirschke ('Cello). Lumpazivagabundus (K i c k-Schmidt). Nachtmusik (Niemann). Flute Sonata (Mouquet).
Ballet, "The Nutcracker" (Tchaikovsky). Overture, "Rosamunde" (Schubert). Hungarian Dances (Brahms). Romance (Gebhardt). Waltz (Strauss). Overture, "Der Opernball" (Heuberger); at 9.0-9.15—Topical Events.
10.0—News; Sports Notes.
10.20—Report: The Cycle Tour of Germany.
10.30—See Hamburg.

Germany. 10.30—See Hamburg. 10.45—Weather Reports. 11.0-12.0 m't. — Programme from Frankfurt. 2.0 m°t.-2.0 a.m. (Saturday) — See Stuttgart.

FRANKFURT

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
12.0 noon—Cornelius Opera Music—Choir, Orchestra, Walter Ludwig (Tenor), Alsen (Bass).
1.0 p.m.—Time; News.
1.15—Band from the Schillerpiatz,
Mainz. In the interval, Talk.
2.0—Time; News.
2.10-6.0—From Mainz.
2.10—Mainz Composers — Concert by "Peter Cornelius" Conserva-

toire Teachers and Students, from the Electoral Palace, Mainz, Conductor: Kuhnert. Three Nocturnes (Sterkel). Four Songs (Righin). Pfte. Pieces: (Windsperger). Three Madrigals (Hiege). In the interval, Talk. 3.0—Serenade in D (Beethoven) by Peinemann (Violin), Philipp (Viola) and Wunderlich ('Cello), from the Electoral Palace, Mainz. 3.30—Songs and Music by Children from the Stadthalle, Mainz. 4.0—Klaus Band from the Electoral Palace, Mainz. Talk. 5.0—Open-Air Concert from the Municipal Park, Mainz. In the interval, Pictures from the Municipal Park Terraces. 6.0—Topical Talks. 7.0—Time; News. 7.10—12.0 m't.—From Mainz. 7.10—" Das goldene Mainz."—Word Picture (Nebhut-Diepenbach-Ruppel). 8.0—Pfitzner Concert for Gutenberg Festival Week from the Choral Society's Concert Hall, Mainz—Mainz Choral Society and Municipal Orchestra. Conductors: The Composer and Zwissler. Strub (Violin), Clara Ebers (Soprano) and Heinrich Blasel. Symphony in C sharp minor, conducted by the Composer. Violin Concerto. Choral Fantasia, Das dunkle Reich. In the intervals, Talk: Drama and Music in Mainz; News. 10.40—Sports Talk. 10.50—Light and Dance Music from the Stadthalle. In the interval, Songs of the Rhine. 11.55—Mainz Cathedral Chimes. 12.0 m't.—3.0 a.m. (Saturday)—See Stuttgart.

HAMBURG
904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday.
Transmits at intervals from 5.45 a.m.
12.0 noon—Band; Bremen Stadt-

Transmits at intervals from 5.45 a.m.

12.0 noon—Band; Bremen Stadtmusikanten.

2.0 p.m.—News.

2.15—Light Music.

3.0—Shipping; Markets.

3.25 — Pfte. Sonatinas (Roussel, Ravel).

4.0—Station Orchestra, Romanoff Orchestra, and Topical Talks.

6.0—For Children.

6.10—Chamber Music for woodwind (Gabler, Hoyer).

6.45—Weather; Shipping; News.

7.10—Band from Kiel.

8.0—See Deutschlandsender.

9.0—Topical Events.

9.10 — Excerpts, "The Flying Dutchman" (Wagner) (Station Recordings),

10.25—Report: Kiel Week 1938.

10.30—Report from Goslar: Harz Motor Sports Week—the threeday Central Harz Tour.

10.40—Music from Leipzig.

12.0 n°t-3.0 a.m. (Saturday)—See Königsberg.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. Also on Jaarsveld, 722 kc/s (415.4 m.); 17 kW. KRO Programme. 7.40-8.55 a.m.—Records. 9.40—Records. 11.10—Address by Father Perquin, O.P.

O.P.
11.40—Police Messages; Records; at 12.55 p.m.—Pigeon Homings.
1.40—KRO Melodists; Records.
3.10—Records.
3.55—KRO Chamber Orchestra.
Conductor: Reinards. Symphony in E flat (Beck). Eine kleine Nachtmusik (Mozart). Old Flemish Dances (Unger).
440—Records.

Flemish Dances (Unger).
4.40—Records.
4.55—KRO Orchestra. Conductor:
Reinards. Overture, "Das
goldene Kreuz" (Brüll). Ein
Karnevalsfest (Kaun). Selection,
"Boris Godunov" (Mussorgsky).
5.40—For Farmers and Gardeners.
6.0—KRO Melodists.
6.40—Police Messages.
6.55—Talk; Records.
7.40—News.

6.40—RNO Mediaiss.
6.40—Police Messages.
6.55—Talk; Records.
7.40—News.
7.55—KRO Orchestra. Conductor: Reinards. KRO Boys and KRO Melodists, Conductor: Lustenhouwer, and Records. Overture, "William Tell" (Rossini). Selection, "La Bohème" (Puccini). March, "Aïda." (Verdi). Popular Music by the KRO Melodists. Overture, "Orpheus in the Underworld" (Offenbach). Waltz, Pomona (Waldteufel). Arm und Arm (Joh. Strauss). Salut d'amour (Elgar). Stars and Stripes (Sousa). Records. Items by the KRO Boys.
10.10-11.40—News; Records.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 8.40 p.m.; 60 kW from
8.40 p.m.
7.40 a.m.—VARA Programme:
Records.
9.40—VPRO Service.
10.0-11.40—VARA Programme.
10.0 — v. Praag (Recitations);
Gobets (Tenor); Records.
11.10—Steyn (Organ).
11.41—Kovacs Lajos Orchestra; at
12.25-12.55 p.m.—Records.
1.40—Tasca (Pfte.).
2.10—Reading.
2.40—Variety — Krontjong Band,
Vocal Quintet, Lies de Leeuw
(Songs). Palla (Organ) and Dick
Scherpenhuyzen (Jazz).
3.40-7.10—VARA Programme.
3.40—Records.
4.40—For Children; Records.
6.10—Weekly Political Review.
6.30—Esmeralda Septet and Hofman (Tenor).
7.0—News.

man (Tenor)

6.30—Esmeratua Septet and Candon Man (Tenor).
7.0—News.
7.10 8.40—VPRO Programme.
7.10—Religious Notes; Talk.
7.40—Louise Dentz (Soprano) and v. d. Horst (Pfte.).
8.10—Talk.
8.40—10.20—VARA Programme.
8.40—Vogel Concert—Emmy Arbous and v. Dongen (Songs), and the Composer (Accordion and Pfte.).
9.10—Jong (Organ), Daalhuizen (Trumpet) and McCarthy (Pfte.).
Prelude (Rachmaninoff). Piece from "Der Trompete von Säkkingen" (Nessler). Capriccioso (Mendelssohn). Die Post im Walde (Löhr). Sweet William (Mayerl). Selection, "The Desert Song" (Romberg). Finale. Finale. 40—The Ramblers Dance Band.

9.40—The Rambiers Daille Ball 10.10—News. 10.20—VPRO Service. 10.40-11.40—VARA Programme. 10.40—Records. 11.10-11.40—Jazz Records.

KALUNDBORG

KALUNDBORG

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

Transmits at intervals from 7.0 a.m., 12.0 noon-2.0 p.m.—Wivex Orchestra.

2.30—Louis Preil's Ensemble.

4.0—Folk Music from Bellahøj.

4.30—For Women.

5.0—Wireless Notes; Talk.

5.25—Weather; Exchange; Markets.

5.25—Weather; Exchange; Jacobsen (Songs to the Guitar).

6.15—Talk: The French Crisis.

6.35—German Lessons.

7.0—Time; News.

7.0—Time; News.

8.0—Frederiksberg Folk Music Choir, Conductor: Savery.

8.15—'A Week-End'—Three-Act Play (Boëtius-Ostrup).

9.45—Record.

9.50—News.

Play (Boëtius-Ostrup).

9.45—Record.

9.50—News.

10.10—Radio Orchestra, Conductors: Tuxen and Grendahl.
Frösig (Clarinet). Christiansen (Trumpet). Overture,
"Mignon" (Thomas). Air in D
(Bach). Excerpt from Scènes napolitaines (Massenet). Rondo from the Clarinet Concerto in E flat (Weber). Prelude, "Eva" (Lehár). Excerpt, "Rosamunde" (Schubert). Ballet, "Sylvia" (Delibes). Divertissement for Trumpet and Orchestra (Suppé). Dance, "Maskarade" (Nielsen). Polka (Lumbye).

11.10-12.30 a.m. (Saturday)—Preil's Dance Band; at 12.0 m't.—Chimes.

KÖNIGSBERG (Heilsberg)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a,m.
12.0 noon-2.0 p.m. — See Saar-

17ansmits at intervais from 3.0 a.m.
12.0 noon-2.0 p.m. — See Saarbrücken.
2.0—News; Talk; Variety.
2.55-3.0—Exchange.
3.30—Guessing Competition,
3.50—Midsummer Eve Sequence,
4.15—Börschel Band; at 5.0 —
Sports Report by Lutz Koch
from Prague.
5.50—Talk: Technics.
6.5—Hartung (Organ); Legal Talk.
6.35—Topical Report.
6.50—Announcements; News.
7.10—"Orchestral Instruments"—
Musical Revue (arr. Wippermann)
with the Börschel Band, etc.
8.0—Act III, "The Mastersingers"
(Wagner). Conductor: Brückner.
Laholm as Walther, Bertha Stetzler as Eva, and Rode as Hans
Sachs.

ler as Eva, and Rode as Hans
Sachs,
10.0—News,
10.15—Report: Kiel Week,
16.20—"Hoffmann's Characters"
the Student Anselmus and 11.15-11.55—Dance Music.

Kapellmeister Kreisler visit the Author's Birthplace, 11.0—Light and Dance Music (Re-

cords).

12.0 m't.-3.0 a.m. (Saturday)
Serenade—Börschel Band.

LEIPZIG

.ELPZIG 785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). ransmits at intervals from 5.50 a.m. 2.0 noon-2.0 p.m.—See Saar-

12.0 noon-2.0 p.m.—See Saar-brücken.
2.0—Time; News; Records.
3.0—Talk; A Visit to the Hohnstein Puppet Players.
4.0 — Orchestra and Band from Danzig; at 5.0-5.10—Markets.
6.0 Talk: Central Germany.
6.20 (from Dresden)—Violin, Flute and Pfte.

6.0—Talk: Central Germany.
6.20 (from Dresden)—Violin, Flute and Pfte.
6.45—Evening Review; News.
7.10—Soldiers' Chorus.
8.0 (from Dresden), Station Orchestra. Conductor: Kretzschmar.
Susanne Hagen Heilmann (Coloratura-Soprano), Marianne Thomass (Soprano), Carnuth (Tenor) and Frantz (Bass). Introductory Talk by Dr. Gerhard Pietsch. Excerpts, "Cinderella" (Rossini, Isouard, Johan Strauss). Excerpts, "The Merry Wives of Windsor" (Nicolai) and "Falstaff" (Salieri, Verdi). Excerpts, "Faust" (Gounod, Schumann, Zöllner, Busoni). Excerpts, "Der Corregidor" (Wolf), "Die Zwillingsesel" (Dressel) and "The Three-Cornered Hat" (Falla).

"Die Zwillingsesei (Dies»; and "The Three-Cornered Hat "(Falla).

10.0—News; Sports Notes,

10.30—Dance and Light Music — Fricke Band, Tenor, etc.

12.0 m't.-3.0 a.m. (Saturday) — See Königsberg.

LILLE (Radio PTT Nord)

LILLE (Radio PTT Nord)
1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—"Au Casino des courants
d'airs "—Programme by Lestarquit and his Ensemble.
7.30—News; Weather.
8.0—Dialect Programme.
8.30—See Paris (Radio-Paris). After
the Programme, News.

MONTE CENERI

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon.

8.0 p.m.—Karl Theo Wagner
(Songs) and Nino Herschel
(Pfte.) Songs (Schubert). Pfte.;
Barcarolle (Rubinstein). Songs
(Brahms).

8.35—Talk: Democracy and War.

8.50-10.15—See Sottens.

MOSCOW 172 kc/s (1,744 m.); 500 kW.
12.30 p.m.—Talks in Italian.
4.30—Music; Talk; Literature.
9.30—News; Kremlin Chimes.
10.5—Talks (English, French).
12.0 m²t.—Talks in Spanish.

12.0 m²t.—Talks in Spanish.

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

Transmits at intervals from 6.0 a.m.
12.0 noon—Light Orchestral.
1.0 p.m.—Time; News; Topical.
1.15—Light Orchestral.
2.0—News; Exchange.
2.15—Light Orchestral. Vocal Quartet, Tenor, Pfte.
3.0—Reading; Fairy-tale,
4.0 (from Augsburg)—Old Italian Chamber Music; Readings from Hölderlin's Letters.
5.10—Light Orchestral; Interlude.
7.10—Oreretta and Film Records, with Ernst Klotz Verses.
9.0—"German Idealism"—Literary and Musical Sequence (Würzbach), with Readings (Hitler, Schiller, Eckehart, Nietzsche, etc.) and Music of Bach, Brahms and Mozart.
10.0—News; For Falt-boaters.
10.30—Serenade—Augsburg Dance Band and Saxophone Quartet.
12.0 m²t.-3.0 a.m. (Saturday)—See Königsberg.

NAPLES GROUP

NAPLES GROUP

Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m.
7.0 p.m.—Music; Topical.
7.20—Parma Accordion Ensemble.
8.0-8.30—See Rome Group,
8.30—' Benedetta fra gli uomini' —One-Act Comedy (Capo).
9.0—String Orchestra. Music by Zuelli, Pick-Mangiagalli, Frugatta, Rosi, Semprini, Bloom, Brown.

NICE-COTE d'AZUR

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW.
Transmits at intervals from 6.50 a.m.
8.30 p.m.—"La Poupée" (Audran)
with Christiane Méry, Mme de
Ter, Lise Gromel, Paul Marcelin,
Dalbert, Bertossa, Branni,
Maurice Garitte. After the Programme, News.

OSLO OSLO
260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 10.30 a.m.
5.5 p.m.—Variety Concert.
5.45—Topical Talk.
6.0—Concert.
6.45—News; For Farmers.
7.30—Accordion; Talk.
8.10—Concert

7.30—According; Faix. 8.10—Concert. 8.45—Play. 9.40—News; Topical Talk. 10.15-10.45—Songs. PARIS (E'ffel Tower)

PARIS (E'ffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.

3.30 p.m.—"Domino"—ThreeAct Play (Achard).

5.0—Report (Recorded): The "Prix
des Drags" at Auteuil.

6.0—Paule Bouquet (Violin). Intrada (Desplanes-Nachez). Andalusian Serenade (Monastério).

Scherzando (Lalo).

6.15—Maud Laury (Songs).

6.30—Talk: Barcelona.

6.45—Financial Talk: Markets and
Raw Materials.

7.0—Pite. and 'Cello Sonata (Paray)
by Mme Clavius-Marius and
Mille Reine-Marie Flachot.



M. D. Calvocoressi, the wellknown authority on music, will broadcast a talk from Paris (PTT) at 8 p.m. His subject is: "Russian Music in France in the 19th Century and Before 1914."

Century and Before 1914."

7.30—News; Weather; Time.
8.0—Violin and Pfte. Sonata (Jongen), by Gabriel Bouillon and Mme Durand-Texte.
8.30 — Chamber Music — Calvet Quartet, Mme Turba-Rabier (Songs) and Jeanne-Marie Darré (Pfte.) Quartet in C minor (Brahms), Songs: Variations (Proch). Pfte.: (a) Polka (Rachmaninov), (b) Prelude (Mendelssohn). Songs (Duparc, Fauré, Ravel). Pfte.: (a) Suggestion diabolique (Prokofiev), (b) Presto in B flat (Poulenc), (c) Caprice (Dohnányi):

8.45—Variety. Part I: "In the Days of the Minuet"—Songs and Sketches inspired by the Eighteenth Century. Part II: "Point de lendemain"—Play (Hervieu), by the Station Dramatic Company.
10.30—Records.
11.6-11.15—News; Weather.

PARIS (Poste Parisien)

PARIS (Poste Parisien) 959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 5.0 p.m.—Cabaret. 6.0—News; Exchange; Talk. 6.20-6.35—Records. 6.50—Talk; Racing; Record. 7.10—Amusements; Topical; Records.

7.10—Amusements; Topical; Records.
7.50—Excerpts, "La Fille de Madame Angot" (Lecocq).
8.0—Topical.
8.10—"La Clef des Songes" (Arnaud-Desnos).
8.25—"Fifteen Minutes' Recreation"—Programme presented by Robert Desnos.
8.40—"La bonne histoire."
9.0—To be announced.
12.0 m't.—News.

PARIS (PTT)
695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
3.10 p.m.—See Tallinn.
4.9—Lecocq Operetta Records.

FRIDAY (June 241

4.15—Reading (Conrad).
4.30—Singing Lesson.
5.0—Concert. Conductor: Locatelli, Gaillarde (Moret). Petite Suite (Debussy). Menuet rose (Ganne). Pavane and Dance (d'Ambrosio). Promenade à l'étang (Fl. Schmitt). Overture, "La Farce du Cuvier" (Dupont).
6.0—Educational.
6.30—Chamber Music—Danish Quartet. Trioe in D (Kuhlau). Allegro concertante (Henriques). Quartet in A minor (Henriques). 70—Radio Journal; News.
8.0—Talk by M. Calvocoressi: Russian Music in France in the Nineteenth Century and before 1914—Personal Reminiscences.
8.30—Symphonic Music—Orchestra. Conductor: Clergue. Carmen Guilbert (Pfte.). German Dances (Schubert). Chasse fantastique (Guiraud), Prelude to Pénélope (Fauré). Suite, Dolly (Fauré). Excerpts, "Pellèas et Mélisande" (Fauré). Petite Suite (Chaminade). Pfte. Concerto in F (Gershwin). Dance of the Tumblers (Rimsky-Korsakov).
10.30—News; Weather.
10.45—Records: Light Music.
PARIS (Radio-Paris)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW. 6.28 a.m.—Programme Notes; Records. 6.40—Time; News; Gym; Re-

cords.
6.40—Time; News; Gym; Records.
7.15—News; Gym; Records.
8.0—Time; News; Press.
8.30-8.45—Programmes; Records.
9.45—Programmes; Records.
10.45—Reading; Records.
11.45—Exchange; Water Level.
12.0 noon—Economic Notes; Records.
1.0 p.m.—Time; News; Exchange.
1.30—Paule Gilly (Songs).
1.45—Records; Programme Notes.
2.5—Talk: German Literature.
2.25—Talk: Exchange.
2.45—Diacowsky (Songs).
3.0—Christiane Senart (Pfte.) (Debussy, Tcherepin, Falla).
3.15—Talk: Ravel.
3.25—Talk: Pavement Art.
3.35—The Humorous Press.
3.45—Exchange.

3.35—The Humorous Press,
3.45—Exchange.
4.0—Talk: Fables—Franc-Nohain.
4.15—Jeanne Louail (Songs),
4.30—Talk: Paris,
4.43—Talk: Careers,
4.50—Exchange.
5.0—Chamber Music,
6.0—Educational,
6.30—Racing Results,
6.32—For Women,
6.55—Film Review; Programmes.
7.0—Educational.

6.32—For Women.
6.55—Film Review; Programmes.
7.0—Educational.
7.30—Talk: England.
7.45—Employers' Federation Notes.
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.8—Foreign Affairs.
8.30—"Un cœur tout neuf"—
Three-Act Play (Vialar), by the "Mai 36" Players, with Julien Bertheau, etc.; at 9.30 (approx.)—News; Press Review; For Exservicemen.
10.30—Records. Pfte. Sonata in E flat (J. Chr. Bach), by Jacques Février. Third Movement from the Harpsichord Concerto in D (Haydn), by Wanda Landowska and the Lamoureux Concert Orchestra. Conductor: Bigot, 10.45—Time; News.
11.9—Goncert. Conductor: Rhené-Baton. Symphony (v. Dittersdorf). Clarinet Concert (Weber). A Marie endormie (Ropartz). Printemps (Debussy).
12.30 a.m. (Saturday)—Programme Notes.

PRAGUE

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m.
5.20 p.m. — Quartet in E flat (Krommer-Kramár) by the Ondricck Quartet.
5.40—Sports; News in Russian.
6.0—Cultural Review; Markets.
6.20—Milinovsky Band.
7.0—Time; News; Topical.
7.25—Sokol Gymnastics.
7.30—Selection, "Adam and Eve" — Operetta (Dusik), by the FOC Orchestra. In the interval, Doctors' Anecdotes.
8.45—Talk: The Tatras.
9.0—Czech Philharmonic. Conductor: Jeremias. Station Choir, Spačkowá (Soprano) and Muz (Baritone). Passacaglia (Babusek). "My Mother"—Cantata (Axman).
9.55—Local News.
10.10—Sports Notes.
10.15—Racing Results; Records.
10.30-11.0—Sokol Gymnastics.

RADIO EIREANN

RADIO EIREANN
656 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
1.30 p.m.—Records.
2.30-3.0—For Schools.
5.30—Programme for Children by Children.
6.0—The Composer performs—
Recorded Programme of Tito
Schipa singing his own songs;
Kreisler and Paderewski playing their own Music.
6.35—Irish News Feature.
6.45—News.
7.0—Irish Musicians of the past century: Sir Robert Stewart, by Harold R. White.
7.30—I liked this Book—F. J.
Keane.
7.45—Favourite Preludes and Intermezzi by the Irish Radio Orches-

7.45—Favourite Preludes and Intermezzi by the Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara. Cecily Kenny (Gavotte and Waltz Songs).
8.35—Cork Historical and Archæological Society Talks.
8.50—"Musical Knights," presented by Julia Gray.
9.15—Cruach Phadraig le Diarmuid O'Briain.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-MÉDITERRANÉE

RADIO-MÉDITERRANÉE

1,276 kc/s (235.1 m.); 27 kW.
Transmitsat intervals from 12.15 p.m.
7.0 p.m.—Spanish Lesson.
7.15—Talk; Sports Notes.
8.0—Talk;
8.15—Variety Concert.
8.30 — Liszt Music. Hungarian Rhapsody. Mephisto Waltz.
Hungarian March in C minor (Schubert - Liszt). Tarantella,
Venezia e Napoli.
9.5—Weather; Music.
10.0—News.
10.15—Request Programme.
10.30—Dance Music.

RADIO-NORMANDIE

RADIO-NORMANDIE
1,411 kc/s (212.6 m.); 15 kW.
7.10 a.m.—Call.
7.15—Press Review; News.
7.45—Physical Exercises.
8.0—Music, in the Morning.
8.15—Time; Light Music.
8.30—Donald Watt.
8.45—Light Music.
9.0—Time; Round the World.
9.15—Hill Billies.
9.30—Radio Favourites.

9.30—Radio Favourites.
9.45—Popular Music.
10.0—Time; A Refreshing Programme

9.45—Popular Music.

10.0—Time; A Refreshing Programme.

10.15—Dream Waltzes.
10.30—Songs.
10.43—Cinema Organ.
11.0—Time; Something for Everybody,
11.30—Orchestra.
12.0 noon—Concert.
12.30 p.m.—News; Talk.
1.0—Concert.
2.15—Listen after Lunch.
2.30—Songs We Know Them By.
2.45—Songs.
3.0—Request Programme.
3.30—The Musical Mirror.
3.45—Pleasant Quarter-Hour.
4.0—Friday at Four.
4.15—What's on.
4.30—Old Tunes.
4.45—The Musical Magazine.
5.15—For Boys and Girls.
5.30—On with the Show.
6.0—Children's Corner.
6.45—Talk; News; Racing Results.
7.0—Chansonnettes.
7.30—News; Talk.
8.0—Records of Jean Sirjo and Jeanne Aubert.
8.40—Variety.
9.0 — Concert — René Herval, Simonne Gabriez (Pfte.), Mile Viard (Soprano), Poidras (Volin), Jean Bruno (Tenor), Lelouar (Comedian), Roger Queval (Pfte.).

Jean Bruno (Tenor), Lelouar (Comedian), Roger Queval (Pfte.). 11.0—Café Concert. 12.0 m't.—Melody at Midnight. 12.30 2.0 a.m. (Saturday)—Time; Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.

8.0 p.m.—News; Notes; Records.

8.30—Concert from Nantes. Conductor: Martin. Poulain (Songs).
Entry of the Gladiators (Fucik).
In a Persian Market (Ketélbey).
Selection, "La belle Hélène"
(Offenbach). Songs, Merles et pinsons (Reynaud). Scènes champêtres (Huguenin). Songs. Patsy (Myddleton). Negro Wedding (Lotter). Bicyclette (Wesly).

9.30—Songs. After the Programme, News and Concert from Paris.

FRIDAY (June 24)

REYKJAVIK

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon. 9.10 p.m. — Weather (Icelandic, 9.10 p.m. — Weath German, English). 9.20—Famous Singers 9.40—Announcements.

9.40—Announcements
9.50—News.
10.0—Time; Foreign Affairs.
10.15—Talk.
10.40—Schubert Music. Wanderer Fantasia, Sonatina in G minor. Fantasia, Sona 11.20—Recital, 11.45—Accordion.

ROME GROUP

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1) etc. See Sunday.

Transmits at intervals from 7.45 a.m. 5.0 p.m.—News. 5.15-5.50—Jole Baccara (Violin) and Olga Cesareo (Pfte.). 6.50—Brazilian Bulletin. 7.0-7.20—Talk in Dutch. 7.30—Light Music. 8.0—News; Topical; Music. 8.30 (Palermo and Naples (No. 2) only)—Light Music. 9.0—Midsummer Festival — Potpourri of Modern Songs. In the interval, Talk. 11.0—News; Weather. 11.15-11.55—Dance Music.

SAARBRÜCKEN

110

JAAKBRUCLEEN
1,249 kc/s (240.2 m.); 17 kW.
Relayed by Kaiserslautern, 1,429
kc/s (209.9 m.).
Transmits at intervals from 6.0 a.m.
12.0 noon—Station Orchestra.

1.0 p.m.—Time; News. 1.15—Malachowski Band.

1.15—Malachowski Band.
2.0—News.
2.15-3.0—See Berlin.
4.0—Music from Danzig.
6.0—Folk-Music from Mannheim.
6.45—Talk: Outings.
7.0—Time; News; Song Records.
7.30—Topical Talks.
8.0—Concert from St. Wendel —
Orchestra, Songs, Readings.
9.0—Operetta Records.
10.0—Time; News; Talk,
10.30—See Leipzig.
12.0 m²t.-3.0 a.m. (Saturday) —
See Königsberg.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 12.29-1.45 p.m.—Time; News;

12.29-1.45 p.m.—Time; News; Records.
5.0-6.0—See Beromünster.
6.0—Records.
6.15—Talk; Sports Review.
6.40—For Alpinists.
6.50—Weekly Parliamentary Review.
7.5-7.10—Football Netes.
7.15 (from Geneva)—Micro-Magazine.

8.0—Light Music—Engel Orchestra, 8.30—Weekly Financial Review. 8.50—Cabaret.

9.50—Records. 10.30-11.0—Dance Records.

STOCKHOLM

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.

Motala, etc. See Sunday.

Transmits at intervals from 10.0 a.m.
5.5 p.m.—Göteborg Radio Orchestra.

Conductor: Eckerberg.

Fourth Symphony (Mendelssohn).

Minnen fran norska fjällen (Berwald). Two Icelandic Melodies (Svendsen). Per spelman han spelte (Lindberg).

6.0—Evensong from the Oscarskyrk.

7.15—News; Weather.

7.39 — "Midsummer" — Kerstin Torlind (Songs) and Lottie Andréason (Volin). Part I: Songs (Järnefelt, Wennerberg-Reuter, Peterson-Berger, Stenhammar, Alfvén). Part II: Swedish Melodies and Dances (arr. Andréason).

8.0—Reading.

(Kollo). Conductor: Hauke.
10.0—News.
10.15-11.0 — Waldimir Orchestra.
Potpourri (arr. Ahlberg). España
(Waldteufel). Musica proibita
(Gastaldon). Suite, Südlich der
Alpen (Fischer). Evert Taube
Potpourri (arr. Lind). Potpourri
(arr. Waldimir),

STRASBOURG

859 kc/s (349.2 m.); 100 kW.

Transmits at intervals from 6.30 a.m.

5.16 p.m. — Chamber Music —

String Quartet in F (Dvořák).
Flute and Pfte. Sonata (Bach).
6.0—Economics; Social Notes.
6.39—See Paris (PTT).
7.0—News; Weather.
7.39—Concert from Limoges (PTT).
8.0—News (German, French).
8.30—Alsatian Soirée from the Cathedral Square — Strasbourg Choral Society and the Station Wind Band. Conductor: Bour.
10.9—Thommy-Tschoecke (Hawaiian Guitar).
10.30—News (French, German).
11.0—See Paris (Radio-Paris).

STUTTGART

STUTTGART

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.45 a.m.
12.0 noon—See Cologne.
2.0-3.0 p.m.—Light Music—Station
Orchestra, Songs, Pfte.
4.0—Records; Open-Air Concert
from Karlsruhe.
6.0—Dances (Mozart, Schubert).
6.30—Topical Talks; Echoes of the
Reich Students' Congress in Heidelberg and the Reich Students'
Sports Contests in Mannheim.
7.0—News; Calendar; Records.
8.0—Festival Concert for the First
Reich Students' Congress from
Heidelberg—the Heidelberg and
Reich Students' Orchestras. Conductor: Abendroth.
10.0—Time; News; Sports Report.
10.30—Light and Dance Music—
Orchestra, Cinema Organ, Hawaiian Guitars.
12.0 m²t.-3.0 a.m. (Saturday)—

ian Guitars. 2.0 m't.-3.0 a.m. (Saturday) — Light and Dance Music (Records).

TALLINN

TALLINN
731 kc/s (410.4 m.); 20 kW.
Transmits at intervals from 7.0 a.m.
3.10 p.m.—Estonian Choral Festival
Concert. Part I. Wind Band.
Largo religiosa (Hiob). Kalev
and Linda (Tamm). St. John's
Eve (Lüdig). Scherzo (Lüdig).
King of the Wächtel (Jürgenson).
Tuljak (arr. Kull). March. Part
II. Male Voice Choir: Songs
(Tümpu, Tubin, Simm, Kapp,
Vork, Ernesaks). Part III. Mixed
Choir: Songs (Kapp, Melngailis,
Hagfors, Lüdig, Päts, Aav,
Türnpu). Part IV. Community
Singing of Patriotic Songs (Aav,
Saar).

Saar).
6.0—For Children.
6.30—Records of Estonian FolkSongs; Reading.

7.10—Tooni Kroon (Soprano);
Schüts (Violin).
7.50—News; Reports.
8.5—A Play.
8.50—Dance Records.
9.55—Time; News.
10.0—(If not performed Thursday)
—Open-Air Performance of "Our Freedom" — Play (Visnapuu);
Music by Kapp.

TOULOUSE (Radio-

Toulouse)

913 kc/s (328.6 m.); 60 kw. Transmits at intervals from 8.0 kw. 6.0 p.m.—News. 6.15—Musical Comedy Music. 6.49—Film Music.

6.40—Film Music.
6.55—News; Sports Notes.
7.15—Light Music.
7.25—Variety; News.
8.0—Marches.
8.30—Selection, "Ceux de la légion" (Scotto).
8.45—Dance Refrains; Talk.
9.15—"Nuits mediterranéenes"—Fantasy.
9.30—Operetta Music. Excerpt, "Hit the Deck" (Youmans), "La vie parisienne" (Offenbach), "Eva" (Lehár) and "La femme abandonnée" (Pietri).

abandonnee (Pletri).
10.0—News.
10.15—Argentine Cabaret.
10.35—Marches.
10.45—Chansonnettes.
11.0—Bal champêtre.
11.15—Light Music.
11.45—Dance Music.
12.0 m't.—News.

TURIN GROUP Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc.

m.); 7 kW. Milan (No. 1), etc. See Sunday.
Transmits at intervals from 7.45 a.m.
5.0-5.50 p.m.—News; Records.
7.19 (Rome (No. 2) only)—News in

English.
30 8.30—See Rome Group.
30—Records; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Italian Lesson in Ger-

News and Italian Lesson in Schman.

9.0—Song Potpourri by the Radio Orchestra.

9.20—Symphony Concert from the Basilica di Massenzio, Rome. Conductor: Rossi, In the interval, Topical Talk.

11.0 (approx.)—News.

11.15 (approx.)—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
12.0 noon-2.0 p.m.—See Saarbrücken.
2.0—News; Records.
3.0—News.
3.40—"Twenty Years After"—
Talk: Battlefields.
4.0—Orchestra and Band from
Danzig; at 5.0-5.10—Reading.
6.0—Songs and Music.
6.30—Topical Reports; News.
7.10—"The Mölltal"—Songs and
Music.

7.10—"The Mölltal"—Songs and Music.
8.0—See Deutschlandsender.
10.0—News.
10.30—See Leipzig.
12.0 mt.-3.0 a.m. (Saturday)—See Königsberg.

WARSAW

WARSAW

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.
12.3-1.0 p.m.—To be announced.
3.15—For Children.
3.30 (from Lwów)—For Invalids.
3.45—Economics.
4.0 (from Lodz)—Orchestra. Conductor: Nagujewski. Overture (Rossini). Calinerie (Ferraris).
Selection, "A Waltz Dream" (O. Straus). Pieces (Plank).
4.45—Report.
5.0—Dance Music. In the interval, Programme Notes.
6.0—Talk.
6.10—Grzybowski (Pftc.). Etudes (Schumann). Poeme (Scriabin).
Etude in D sharp minor (Scriabin).

Btude in D sharp minor (Scriabin).

6.40-6.55—Literary Notes.

7.0 — Concert from London (National).

7.30—Topical Talk.

7.40 (from Poznań) — Midsummer Day Programme.

8.45—News; Topical Talk.

9.0—Farmers' Letter-box.

9.10 (from Lwów)—Dance Music.

9.50—Sports.

10.0—Station Orchestra. Conductor: Fitelberg. Suite pastorale (Chabrier). Excerpts, "El amor brujo" (Falla). Suite, Children's Corner (Debussy). Pavane (Fauré). Habanera (Aubert).

11.0-11.15—News; Topical Talk (English).

SATURDAY June 25

National

National
For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45—Poetry reading.
11.5—Gordon Green (Pfte.).
11.30—BBC Northern Orchestra:
Norah Wiggins (Soprano).
12.30 p.m. — England v. Australia.
12.40 — Gershom Parkington
Ouintet

12.40 — Gershom Parkington Quintet.

1.20—England v. Australia.

1.35—Reginald New (BBC Theatre Organ).

2.15—England v. Australia.

2.30—Troise and his Mandoliers.

3.15—Records.

3.45 — Polo commentary: The Champion Cup, from Hurlingham.

ham.
4.15—Records,
4.30—England v. Australia,
4.35—Records,
5.0—All-England Lawn Tennis

4.35—Records,
5.0—All-England Lawn Tennis
Championships,
5.10—Sid Millward's Band,
5.30—England v. Australia,
5.40—Sid Millward's Band,
6.0—The First News,
6.25—England v. Australia,
6.40—"The Playwright and the
Box Office: "discussion,
7.0—BBC Orchestra conducted by
Joseph Lewis,
7.30—"In Town Tonight."
8.0—Palace of Varieties, with
George Robey, The Five Herons,
Charlie Chester, Suzette Tarri,
Harry Hemsley, Collinson and
Dean, Tommy Handley,
9.35—The Blech String Quartet:
Divertimento in G (Leopold
Mozart); Quartet in D (Wolfgang Mozart),
10.15—BBC Theatre Orchestra:
Garda Hall (Soprano); Freda
Townson (Mezzo-Soprano),
11.15—Ambrose's Orchestra,
11.50-12.0—Late News Summary,

London Regional

For Time Signals, see Monday. 10.15-10.45 a.m.—National. 10.45—Gilbert Stacey's Sextet.

- Harry Farmer (Cinema

11.30 — Harry Farmer (Cinema Organ).

12.15 p.m.—Records.

12.45 — "The Care of Dogs:"
Major Count V. C. Hollender.

1.0—Aston Hippodrome Orchestra.

1.30—Dorothy Bennett (Soprano);
The Grinke Trio.

2.15—Records.

3.0 — Glastonbury Town Silver Band: Margaret Winterflood (Soprano).

3.40—BBC N. Ireland Orchestra:
Elsie McCullough (Soprano).

4.40 — Serial reading: "Mrs.
Proudie and her Times."

5.0—The Children's Hour.

6.0—Montague Brearley's Orchestra.

Roy Fox's Band.
Regional Bulletin for

7.20 — Regional Bulletin for Farmers,
7.30 — BBC Orchestra conducted by Boyd Neel,
8.15—Emlyn Williams in "We are not Alone:" radio play by James Hilton and Barbara Burnham.
9.15—Excerpt from "Pleasure on Parade."
10.0—News, Summary.
10.30—Ambrose's Orchestra,
11.50-12.0—Late News Summary.

Midland

Midland

10.15 a.m. 5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—BBC Midland Singers: Constance Bee (Violin).
6.40 — Fullerton-Wills Embassy Boys' Dance Band.
7.10—Opening of Wolverhampton Municipal Airport.
7.20—Midland Announcements.
7.30—BBC Midland Orchestra conducted by Leslie Heward.
8.13—Regional.
9.15-12.0—Regional.

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Blackpool Glee and Madrigal
Society.
6.40—Regional.
7.20—Northern Announcements.

7.30—Conversations at the Piano: Edward Isaacs.
8.0—Murray Davies (Baritone).
8.15—Regional.
10.35—Account of opening of Manchester's New Airport.
10.40-12.0—Regional.

Western

Western

10.45 a.m.-6.0 p.m.—National.
6.0—Stoke St. Michael Male Voice
Choir: Joan Adams (Pfte.).
6.40—Regional.
7.20—Western Announcements.
7.30—Regional.
9.15 — Serial Reading: "Mrs.
Proudie and her Times."
9.35 — Glastonbury Town Silver
Band: Margaret Winterflood
(Soprano).
10.0-10.30—News Summary.

Welsh

10.15 a.m.-4.40 p.m.—Regional.

4.40 — Welsh A.A.A. Championships, from Taff Vale Park, Pontypridd.

5.0—The Children's Hour. 5.0—The Children's Hour,
6.0—The Children's Hour,
6.0—Regional,
7.00—Welsh Announcements,
7.30—Welsh Announcements,
7.30—Welsh News,
7.45—BBC Welsh Orchestra: John Morgan (Baritone),
8.30— "Around and About:"
J. Bowen Evans,
8.45—Glyn Samuel's Dance Band,
9.15-12.0—Regional,

N. Ireland N. Ireland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.20—N. Ireland News.
7.30—BBC N. Ireland Orchestra
Frederick Stone (Pfte.).
8.0—"Dinner at Eight."
8.15-12.0—Regional.

Scottish

Scottish
10.15 a.m.-5.0 p.m.—Regional:
5.0—The Children's Hour.
6.0—The First News.
6.25 — Scottish Dance Music.
Stirling Caledonian Strathspey and Reel Society.
6.50—Regional.
7.20—Scottish Announcements.
7.30—The Gordons on Decside.
8.0—Amy Samuel (Soprano).
8.15-12.0—Regional.

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW. 6.0 a.m.—Motto; Weather; Gym. 6.30—Schönefeld Band; at 7.0—

6.30—Schönefeld Band; at 7.0—News.
8.0—Gym; Records.
8.30—See Königsberg.
9.30—Records.
11.40—Reading.
11.55—Weather; Markets.
11.40—Reading.
11.50—noon—See Vienna.
1.0 p.m.—Mid-day Echoes.
1.18—See Vienna.
2.0—News; Water Level.
2.15—'A Jolly Week-end''—Records.

2.15—"A Jolly Week-end"—Records.
3.30—Ballet, "Faust" (Gounod). Conductor: Heinrich Steiner (Recorded).
3.45 — A Visit to a Collection of Sporting Prints.
4.0—See Cologne.
6.0—Raue Band. Selection, "A Night in Venice" (Strauss). Fideles Wien (Kockert). Waltz (Palmgren). Selection, "The Land of Smiles" (Lehár). Morning Serenade (Earl). Invano (Tosti). Polish Dance (Scharwenka). Clowneric. (Dransmann). The Clock is playing (Blaauw). Revue March (Ackermann).

Clock is playing (Blaauw), Revue March (Ackermann), 7.0—News; Announcements.
7.10—Opera Records. Excerpts, "Der Wildschütz" (Lortzing)—Berlin State Opera Orchestra, Wilhelm Strienz, Elisabeth Friedrich, Margarethe Klose, Walther Ludwig, and Willi Domgraf-Fassbaender. Excerpts, "The Flying Dutchman" (Wagner)—Conductor: Orthmann; Marcel Wittrisch. Excerpts, "Otello" (Verdi)—Dusolina Giannini and the German Opera Chorus.
7.48—Evening Echoes.
8.0—"When the Wild Roses Bloom"—Summertime Music by Elisabeth Schwarzkopp and Inge Vesten (Sopranos), Skriwanek (Tenor), Carl de Vogt (Songs to the Lute), Bund Band, and Freundorfer Quintet.
10.0—News; Sports.
10.30—Light and Dance Music—Goronzy and Fritz Wagner Bands.
2.0-3.0 a.m. (Sunday)—Music from Breslau.

BEROMÜNSTER

Stocky (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 ke/s (218.2 m.). (6,15-6.35 a.m., (from Basle)—Gym. 12.0 noon (from Berne) — Wagner

Opera Records. 12.29 p.m.—Time; News; Ex-12.29 p.m.—Thile; recws; bachange.
12.40-1.45—Programme from Berne.
12.40—Le carnaval des animaux (Saint-Saëns) by the Philadelphia Symphony Orchestra (Recorded).
1.0—To be announced.
1.20 — Records: "Les Saltimbanques" (Ganne) by the Berlin Symphony Orchestra.
1.30—Parliamentary Review.
1.45—Folk Music.
2.10-2.30—Books.
4.30—Folk Music—Henriette Kunz (Yodels to the Lute).
5.0-6.0—Sec Monte Ceneri.
6.0—Weather; Talk on Callings:
(a) Postman, (b) Engine Driver.
6.20—Talk.
6.30 (from Basle) — Records:
L'Arlesienne (Bizet) by the Paris Symphony Orchestra.
6.55 (from Basle) — Time;
Markets.
7.0—Zürich Chimes.
7.15—Records: Film Music.
7.30—Talk on Films.
7.45—News.
7.55—Records: Light and Dance Music.
11.0—Announcements; Programmes.
BRATISLAVA change.
12.40-1.45—Programme from Berne.

BRATISLAVA

BRATISLAVA
1,004 kc/s (298.8 m.); 13.5 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m.—Hungarian Transmission:
"Intermezzo" — Play about
Berlioz (Neubauer).
6.45—News (German).
7.0-7.35—See Prague.
7.35—"Summer Night in Bratislava"—Variety. Station Orchestra. Conductor: Dyk, Military
Band, Dance Band, Cigány Band;
Mixed Choir, Trio, Members of the Slovak National Theatre and Commentators.
9.0—See Brno.

Commentators.
9.0—See Brno.
9.55-10.15—See Prague.
10.15—News and Sports (Hungarian).
10.30-11.30—See Brno.

BRESLAU

BRESLAU

950 kc/s (315.8 m.); 100 kW.
Relayed by Gleiwitz and Görlitz,
1,231 kc/s (243.7 m.).
5.0 a.m.—Silesian Band.
6.0—Weather; Gym; Motto.
6.30—Band from Reichenbach.
8.0—Weather Report.
8.30—Band from Reichenbach.
9.30—Weather; Greetings.
9.35—Kindergarten.
10.0-10.30—"Breslau, Centre of the
1813 Rising"—125th Anniversary Sequence for Schools (Witt-kowski).

1813 Rising "-125th Anniversary Sequence for Schools (Witt-kowski).

11.30—Weather; Water Level.
11.45—For Housewives.
12.0 noom-See Vienna.
1.0 p.m.—Time; News.
1.15—See Vienna.
2.0—News; Exchange.
2.15—Fierke Quintet.
3.0—Obstacle Races for Girls.
3.20—Legal Talk.
3.20—Legal Talk.
3.40—Talk: The Forest Brook.
4.0—Station Choir and Orchestra; Conductor: Schlemm; Riebensahm (Pfte.), Rothensee (Baritone). Overture, "Phèdre" (Massenet). Waltz, Fifth Symphony (Tchaikovsky). Prologue, "I Pagliacci" (Leoncavallo). Spanish Dance, "La vida breve' (Falla). Pfte. and Orchestra: Burlesque (Richard Strauss). Folk-Songs for Choir: (a) Horch was kommt von draussen rein, (b). Es ist ein harter Schluss, (c) Jan Hinnerk up de Lammerstraat. Bäurische Festmusik (Jentsch). Joyeuse Marche (Chabrier). Dance of the Tumblers, "The Snow Maiden" (Rimsky - Korsakov). Prelude, "La Traviata" (Verdi). Mephisto-Walzer (Liszt). Folk-Song, Der Bader, Folk-Songs for Choir: (a) Mädel wasch dich, (b) Wo der Wind weht. Ballet, "Rosamunde" (Schubert). Aria, An jenem Tag (Marschner). Overture, "The Flying Dutchman" (Wagnet).

"Rosamunde" (Schubert), Aria, An jenem Tag (Marschner). Overture, "The Flying Dutchman" (Wagner).

6.0 (from Görlitz) — Pictures of Lausitz in Tempestuous Times (Kanig); Talk.

6.30—Talk and Reading.

6.40—Records of Caruso.

6.55—Programmes; News.

7.10 (from Gleiwitz)—Talks: (a) Franks and Vikings in Eastern Germany, (b) Germanic Finds in Upper Silesia.

8.0 (from Görlitz)—The Classical Operetta—Flinsberg Spa Orchestra and Singers. Conductor: Schartner.

tra and Schartner. News; Interlude.

10.0—News; Interlude.
10.30—See Berlin.
12.0 mt.-3.0 a.m. (Sunday) (from Gleiwitz)—Serenade. Upper Silesian Theatre Orchestra. Conductor: Erich Peter.

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—German Transmission "Fra Diavolo's Last Appearance"—Play (Jurditch). ance "—Play (Jurdit 6.35—Records. 6.45—News (German). 7.0-7.35—See Prague.

9.0 — "The Sokol Flag" — Sequence (Bakala) by Actors of the National Theatre and a Glee

Club. 9.55-10.30—See Prague. 10.30-11.30—Bryens Dance Band from Luhacovice.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m. — Homing-Pigeon

Notes.
6.30-9.5—Records; Gym; News.
12.0 noon—Records: Light Music.
12.30 p.m.—Weather; Shipping.
12.35—Schnyders Orchestra. Dirkx

1.0—News.
1.10—Schynders Orchestra. Selection, "The Daughter of the Regiment" (Donizetti-Tavan). In a Chinese Temple Garden

tra and Choir. Conductor: André

tra and Choir, Conductor: André Souris.

6.0—Talk: Huy Convent.

6.15—Salon Orchestra. Conductor: Féron, Madeleine Clairy (Songs). The Mill in the Black Forest (Eilenberg). Songs (Matéo). Slav Melody (Dury).

6.30—Reading: Pêcheur d'Islande (Loti)

(Eilenberg). Songs (Matéo). Slav Melody (Dury).
6.30—Reading: Pêcheur d'Islande (Loti).
6.45—Orchestra and Songs (contd.). Féron (Violin). Violin: Gipsy Airs (Espéjo). Songs (Thiébaut, Fauré, Hahn). Gipsy Melody.
7.0—Reviews: (a) Sports, (b) Hygiene; Interview.
7.15—Records of Georges Thill, Ninon Vallin, José Janson, and Germaine Cernay.
7.30—News.
8.0—Records: Light Music.
8.15—"The Donation"—One-Act Comedy (d'Hervilliez).
8.45—Belgian Music. I.N.R. Symphony Orchestra. Conductor: Delvenne and Desclin (Violins). Commentary by Gaston Brenta. Overture to a Drama (Dupuis). Baritone: O kom mot mij in den Lentenacht (Vanderstucken). Two Violins and Orchestra: Amité (Ysaye). Baritone: A toi (Lebrun). Symphonic Poem, L'éveilleur (Dubois).
10.10—News.
10.10—Brenders Dance Band. Blanche Darly (Discuse).
11.0-12.0 m't.—Record. Overture, Fingal's Cave (Mendelssohn). Hungarian Rhapsody (Liszt), by Jacques Dupont (Pfte.) and Orchestra. Third Symphony in C minor (Saint-Saëns) by Cellier (Organ), and Orchestra.

BRUSSELS (No. 2)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m.—Records; News;

Gym.

12.0 noon—Song Records; News;
Gym.

12.0 noon—Song Records.

12.30 p.m.—Radio Orchestra.

1.0—News; Shipping.

1.10—Radio Orchestra.

1.30—Operetta Records.

2.0—Mia Vigneul (Songs) and the Jan Steurs Accordion Band.

3.0—Stenka Razin (Glazunov);
Commentary by André Pols.

4.0 — Wigy (Violin), Nicolaij ('Cello), and Records. Duet for 'Cello and Violin (Beethoven).

Records: (a) La Cimarosiana (Cimarosa-Malipiero), (b) Concerto in A minor for Four Claviers and String Orchestra (Vivaldi-Bach). Sonauna (Honegger).

ger).
4.40—News; Poems.
5.0—"Childhood Pictures"

5.0—" Childhood Pictures" — Records.
5.30—For Women.
6.15—Paula De Backer (Songs).
Songs (Delius): (a) So White,
So Soft, So Sweet is She, (b)
Twilight Fancies, (c) Spring, the
Sweet Spring, Four Sacred
Songs to Text of Rabindranath
Tagore (Schouwman). Songs
(Badings): (a) Four Lullabies, (b)
Coplas.

Coplas.
6.45—Talk; Records.
7.30—Journal Parlé; News.
8.0—Radio Orchestra. Conductor:
Louis Contran Douliez. Louis Contrar (Humorist). Durand (Trumpet) Overture, "Gri-Gri" (Lincke)

Douliez, Louis Contran (Humorist), Durand (Trumpet). Overture, "Gri-Gri" (Lincke). Trumpet: Amoroso (Douliez). Selection, "The Flower of Hawaii" (Abraham). Interlude by Louis Contran. Light Pieces (Fletcher). 45—"The Bitter Almond"—Play (Donaudy, Trans. Betsy Kiek-Wolffers). 5—Radio Orchestra. Conductor: Douliez. Louis Contran (Humorist), Delcroix (Saxophone). Béthume (Violin), Lombart (Xylophone). Marche militaire (Schubert), Saxophone: Vanity Waltz (Wiedoeft), Serenade, "Frasquita" (Lehár). Violin: Tambourin chinois (Kreisler). Marche des petits soldats de bois (Pierné), Interlude by Louis Contran. Das Fest der Infantin (Gebhardt), Xylophone: Chicken Reel (Breuer). French Military March (Saint-Saëns). 0.0—News.

Regiment" (Donizetti-Tavan). In a Chinese Temple Garden (Ketelbey).

1.30—Records.
2.0—Art Notes.
2.5—For Women.
3.0—Salon Orchestra. Conductor: Féron. Gipsy Song (Boldi). Viennese Waltz (Benatzky). Si vous l'aviez compris (Denza).
3.30 — Saint-Saëns Music by Clémence Piérard (Pite.). Legy and Bourrée for the Left Hand. Etude in Waltz Form.
3.45—Gipsy Music by the Salon Orchestra. Conductor: Féron.
4.00—Brenders Dance Band.
4.30—Dialect Programme.
4.40—Brenders Dance Band.
4.55—News.
5.0—Talk: China.
5.15—Excerpts, "The Bayadère" (Kâlmán) by the Station Orches-

2.20 — Books; Foreign Affairs;
Topical,
4.30—Variety,
6.0—Time; Weather; Talk,
6.17—Military Band,
7.0—Talk,
7.15 — Singers of Yesterday and
To-day,
8.0—Letter-box,
8.15—Jazz,
9.30—Varies

8.05—Letter-oox. 8.15—Jazz. 9.30—News; Sports. 9.45—Café Concert. 10.45—News (French, English). 11.0-12.0 m't. — Concert on Re-

BUDAPEST

BUDAPEST

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

Transmits at intervals from 6.45 a.m.

12.5 p.m.—Station Orchestra, Conductor: Eördögh; at 12.30—
News.

1.30—Records.

2.35—News.

4.15—Greetings.

5.0—Reading (Thurzó).

5.30—Station Band.

6.20—Report from Hajduszoboszló.

7.0—Hungarian Songs by Anna
Utry and the Sárai Cigány Band.

8.0—A Play (Herczeg-Szilassy-Nagy).

Utry and the Sárai Cigány Band.

8.0 — A Play (Herczeg-Szilassy-Nagy).

9.20—News.

9.45—Szabó Jazz Trio.

10.45—Hungarian , Symphony Orchestra. Conductor: Schuler.

Overture, "The lovely Galatea" (Suppé). Suite (Siklós). Roses from the South (Strauss). Clog Dance (Lortzing). Selection, "The Bird Fancier" (Zeller). March (Schuler); at 11.0—News (German, Italian).

12.5 a.m. (Sunday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW. 6.0 a.m.—Hymn; Weather; Gym;

Records. 6.55—News; Hymn; Motto. 7.10—Music from Berlin. 8.0—Weather; Water I. Calendar. Level ; SATURDAY 251 June

10.0—News. 10.15—See Hamburg. 10.35—Records. 11.0—Music from Berlin. 2.0-3.0 a.m. (Sunday) — Serenade from Breslau.

DEUTSCHLANDSENDER

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
5.0 a.m.—Chimes; Weather.
5.5—Music from Breslau.
6.0—Motto; News; Records.
6.30-8.0—See Berlin; at 7.0—News.
9.0-9.40—To be announced.
10.9—See Breslau.
10.30-11.0—For Children.
11.15—Weather Reports.
11.30—Records; Weather.
12.0 n000n—See Königsberg; at 1.0 p.m.—Greetings.
1.45—News.
2.0—Jäger Band and Records.
3.15—"A Jolly Week-end"—Records; Programmes.
4.0—See Stuttgart. In the intervals, Reports from the Reich Students' Sports at Mannheim.
6.0—Angelica Costales (Pfte.), Cristina Maristany, (Brazilian Songs), Lessmann (Violin), Haentzschel (Pfte.).
6.40—Report: Grünau Regatta.
7.0—Motto; News.
7.10—"This and That"—Ilse Lüttich, Marina Ursica and Fredy Schulz (Songs). Arthur Mersiowski (Bandonion), Küster-Kiermeir, Pfte. Duo, and Erwin Dressel.
8.0—"The World on Rails"—Fantasy about Railways (Kuhnert), with Readings from Althaus, Günther Eich, Horst Lange, etc., and Music of Kusche and Aulich—Inge Vesten (Soprano), Schindler (Tenor), Bernauer (Baritone).
10.0—News; Sports.



Louis Preil and his Dance Band, who participate in Kalundborg's dance music this evening and who have broadcast on several evenings during the week.

8.10—Gymnastics. 8.30—See Königsberg. 9.15—Games for Children.

9.15—News.
10.0-10.30—Talk: The R
Horticultural Show at Essen.
11.45—Markets; Weather.
12.0 noon—See Vienna.
1.0 p.m.—News; Greetings.
1.15—See Vienna.

2.0—News; Sports.
2.10—Weekend Concert (Records).
3.15—Visit to a Hitler Maidens'
Sports Centre; Markets.

6.50-Snapshots; News

Cycle Tour of Germany - Fif-teenth Lap, and Arrival in Ber-

Inn.

10.30—Richard Klemm (*Cello),
Schröder (Pfte.). Sonata in F
(Porpora), Adagio (Mozart).
Musette (Gluck); at 10.45
Weather.

11.0-Dance Music from Munich. 12.0 m't.-2.0 a.m. (Sunday)—See Frankfurt; at 12.55—Time.

FRANKFURT

Reich

1,195 kc/s (251 m.); 25 kW Cassel, etc. See Sunday. 5.0 a.m.—See Breslau. 5.45—Back to the Land 1 6.0—Canzona in C (Olter); Motto

6.9—Canzona in C (Olter); Motto; Gym.
6.30—See Berlin; at 7.0—News.
8.0—Time; Water Level; Weather; Gym.
8.30 (Long Cassel)—Records.

Sports Centre; Markets.

4.0—Light Music—Hagestedt Orchestra, Kowalski (Pfte.), Gusti Bergmann (Contralto), Wilhelm Leiseifer (Tenor), Willi Schneider (Baritone), Neugebauer (Trumpet), Herloff and Vollstedt (Two Pftes.).

6.0—Programme Trailer.

6.10—"Die Knoppiade" (Busch-Balzer); Music by Siegfried Müller.

6.50—Spanshote: News 8.30 (from Cassel)—Records.
9.30—Local News; Talk.
10.0-10.30—See Breslau.
11.35 — Programmes; Markets; Weather.
11.45—Industrial Report.
12.0 noon—See Vienna.
1.0 p.m.—Time; News.
1.15—See Vienna.
2.0—Time; News; Records.
3.0—Weekly Picture Book; Talk.
3.30—For Hitler Maidens.

6.50—Snapshots; News.
7.10—Eysoldt Dance Band. Neumann (Songs).
8.15—"The Merry Widow" (Lehár). Conductor: Breuer. Cast: Walter Scidel, Melittta Wittenbecher, Karl Schmitt-Walter, Anni Frind, Albert Weikenmeier, Heinrich Schanzara and Herten.

4.0—A Merry Trip down the Rhine from Oberwesel to Mainz aboard the s.s. "Schiller." Station Orchestra, Dance Band, Choir and Male Voice Quartet, Soprano, Baritone, etc. 6.0—Topical Review; Records. 6.45—Sports; Time; News. 7.10 (from Cassel)—Wind Band. Conductor: Philipp. 8.0 — Homeland Evening from Säckingen — Military Band, Yodellers, etc. 10.0—Time; News; Sports. 10.30—Music from Munich. 12.0 m²t.-3.0 a.m. (Sunday)—Serenade. Station Orchestras. Conductors: Moritz and Hauck. Hedwig Jungkurth and Hannele Frank (Soprano), Schmid-Berikoven and Helgar (Tenor), Schröter and Kullmann (Pfte.), Bräu (Saxophone), Schittenhelm (Accordion) (Recorded).

HAMBURG

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. 5.45 a.m.—Motto; Weather. 5.50—Talk: The Nation's Food. 6.0—Gym; Records. 6.30—See Berlin; at 7.0-7.10— News

News. 8.0-8.20 Weather; For House-

8.0-8.20—Weather; For House-wives.

10.0—"Ulrich von Hutten"—Sequence (Jünemann).

10.30—Military Band from Stettin.

In the interval, Talk.

11.45—Shipping; Weather.

12.0 noon (from Stettin)—Military Band.

1.0 p.m.—Weather; Midday Review.

Band.

1.0 p.m.—Weather; Midday Review.

1.15—See Vienna.
2.0—News.
2.15—Light Music.
3.0—Shipping; Records.
4.0—See Frankfurt.
6.0 — For Ex-servicemen — The Cruiser "Karlsruhe."
6.30—Folk-Songs by the Flensburg Chamber Choir. Conductor: Gallert. Viel Freuden mit sich bringet, Das Lieben bringt gross' Freud'. Jetzt gang i ans Brünnele. Wenn alle Brünnlein fliessen. Kein Feuer, keine Kohle., Horch, was kommt von draussen rein. Wenn ich ein Vöglein wär. Ich fahr dahin. Sitzt ein klein's Vög'lein. Heissa Kathreinerle.
6.50—Weather; News.
7.10—"Off we go I".—A Merty Summer Trip. Hans Fleischer, Richard Germer and a Hitler Youth Ensemble.
7.55—To-day's Mirror.
8.10—"Allotria" — Operetta Potpourri (Felix). Station Choir and Orchestra, Conductor: Secker, and Solo Voices.
10.15—Report: The German Derby.
10.35—Report: Kiel Week.
10.40—Music from Berlin.
2.0-3.0 a.m. (Sunday)—Serenade from Breslau.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 8.40 p.m.; 150 kW from 8.40 p.m. Also on Jaarsveld, 722 kc/s (415.4 m.); 17 kW. KRO Programme. 7.40-8.55 a.m.—Records.

1.40-8.30 a.m.—Records, 9,40—Records.
11.10—Religious Address, 11.40—Police Messages; Weather.
11.55—KRO Orchestra. Conductor: van 't Woud.
12.40 p.m.—Records.
1.0—KRO Orchestra. Conductor:

1.0—KRO Orchestra. Conductor:
Lustenhouwer.
1.40—For Children; Records.
2.49—For Children.
3.45—KRO Orchestra.
4.25—KRO Orchestra. Conductor:
van 't Woud, Overture,
"Halka" (Moniuszko). Petite
Suite (Büsser). Loreley Paraphrase (Nesvadba). Brazilian
Dance (Bourgeois). La jota
aragonesa (Saint-Saëns). Selection, "The Tales of Hoffmann"
(Offenbach).
5.10—Esperanto News.
5.25—KRO Children's Choir; Records.

cords.
6.0—Press Review; Records.
6.40—Police Messages; News.
7.55—Meditation by the Abbé H.
de Greeve, with Music.
8.15—Variety. KRO Melodists.
Conductor: Lustenhouwer. Klein
Jr. (Refrains), Hilm (Songs), van
der Hulst (Recitations), and Records.

cords.
10.10—News; International Sports Review. 10.35-11.40—Records.

SATURDAY 25) June

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 8.40 p.m.; 60 kW from
8.40 p.m.
VARA Programme.
7.40 a.m.—Records.
9.40—VPRO Religious Programme.
10.0—Jong (Organ); Records.
11.40 a.m.—1.25 p.m.—Records.
11.40 a.m.—1.25 p.m.—Records.
11.40—Topical Report.
3.10—VARA Orchestra. Conductor
de Groot, Huy (Saxophone).
Overture, "The Boatswain's
Mate" (Smyth) on hearing the
first Cuckoo in Spring (Delius).
Summer Night on the River
(Delius). Moon Magic (Coates).
Rose of Samarkand (Coates).
Saxo—Rhapsody (Coates).
Rose of Samarkand (Coates).
Saxo—Rhapsody (Coates).
Pastoral Sketches (Mayerl).
Three Dances, "Nell Gwyn"
(German). Two Marches (Elgar).
4.10—Esperanto Programme.
4.30—Utrecht Municipal Orchestra,
Conductor: v. Otterloo, Jo
Vincent (Soprano), Smit (Viola).
Fingal's Cave (Mendelssohn).
Italian Serenade (Wolf). Five
Wesendonck Songs (Wagner).
5.20—Literary Talk.
5.40—Steyn (Organ).
6.10—For Socialist Youth.
6.40—A Film.
7.10—VPRO Report.
7.45—S O S Messages; News.
8.0—VARA Orchestra. Conductor
Höfler. Overture, "The Gipsy
Baron" (Strauss). Song and
Czardas (Lehár). Excerpts,
"Gipsy Love" (Lehár) and
"The Gipsy Princess" (Kálmán). Second Hungarian Rhapsody (Liszt).
8.40—Address; Records.
8.55—Emmy Arbous, Carla Wolfl,
Hahn and Ibo (Songs), "Esmeralda" Septet, Sipos (Xylophone),
Gerlach (Accordion) and Swart
(Double-Bass), and Speakers.
10.10—Press Review; Records.

KALUNDBORG

KALUNDBORG

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

7.0 a.m.—Time; Gym.

8.30—Service from Copenhagen
Cathedral.

8.55—Weather; Fish Markets.

12.0 noon-2.0 p.m.—Preil's Ensemble.

2.40 — Henry Jensen (Violin),
Fischer (Pfte.). Rondino on a
Theme of Beethoven (Kreisler).

Air (Bach). Minuet in D
(Mozarr-Burmester). Hindu Song
(Rimsky - Korsakov - Kreisler).

Ballerina (Henriques).

3.0-4.45—Meeting of the Danish
Co-Operative Association from
Kronborg Castle. Music; Addresses; Recitations.

5.0—Talk.

5.25—Weather; Exchange; Markets.

dresses; Rectations.
5.0—Talk.
5.25—Weather; Exchange; Markets.
5.50—Records: Aria, "The Force of Destiny" (Verdi). Love's old sweet song (Molloy). Overture, "Fra Diavolo" (Auber).
La capricciosa (Ries). In cinen kühlen Grunde, Kiss my Mouth.
6.15—Talk: The Aarhus Art Exhibition.
6.35—French Lesson.
7.0—News.
7.30—Talk: The U.S.A.—the New Deal.

7.30—Talk Deal.

Deal.

8.0 — Duet in C minor for two violins by Julius Haydn, Koppel and Else Bruun.

8.20—Latvian Children's Choir.

8.50—Zeeland Authors—Reading.

9.10—Talk: Football Training.

9.25—Louis Preil's Ensemble.

9.25—Louis Preil's Ensemble,
10.10—News.
10.30—Radio Cabaret—Talk with
Illustrations by Preil's Dance
Band, etc.
11.15—Olesen Dance Band from
the Believue Strandhotel; at 12.0
m't.—Chimes.
12.30-2.0 a.m. (Sunday) — Jensen
Dance Band from the Arena.

KÖNIGSBERG (Heilsberg)

KÖNIGSBERG (Heilsberg)
1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s
(230.2 m.).
5.0 a.m.—See Breslau.
6.0—Gym; Records.
6.30—See Berlin; at 7.0—News.
8.0—Prayers; Gym.
8.30-9.30—Danzig Orchestra. Conductor: Kallipke.
9.30-9.40—Reading.
10.45-10.55—Weather.
11.35—Talk; Markets; Weather.
11.35—Talk; Markets; Weather.
12.0 noon—Station Orchestra.
Conductor: Schlenger. Ruth
Patzschke (Contralto). Overture

and Aria, "Cosi fan tutte" (Mozart), Aria, "Orpheus" (Gluck). German Dances (Mozart), Aria, "Orpheus" (Gluck). Musette, "Armida" (Gluck). Preludes to Acts II and III, "Carmen" (Bizet). Habañera and Seguidilla, "Carmen" (Bizet). Prelude, "Mignon" (Thomas). Sclection, "I Pagliacci" (Leoncavallo). Intermezzo, "The Arabian Nights" (Strauss). Slav Dances (Dvořák). March, "Die Folkunger" (Kretschmer); at 12.55-1.15 p.m.—Time; News. 2.0—News; Anniversary. 2.15—Light Music. 2.55-3.0—Exchange. 3.30—Games for Children. 4.0—"Do you remember?"—Variety Programme of the Biedermeier Period (arr. Fränger). Station Choir and Orchestra. Conductor: Schlenger, Franzi Formacher (Soprano), Schupp (Tenor), Grossmann (Pfte, and Spinet). Speakers. 6.0—Sports Review. 6.20—Alpine Music (Recorded). 6.50—Announcements; News. 7.10—Peter Arco and Records.

6.20—Alpine Music (Recorded).
6.50—Announcements; News.
7.10—Peter Arco and Records.
8.0—"Fellow Countrymen!"
9.0—"In the Rose Garden"—a
Musical Garland (arr. Albrecht).
Station Orchestra, Conductor:
Wilcken; Vocal Quartet, Hübsch
Accordion Trio, Erna Fahrig (Soprano), Ferdy Dackweiler
(Tenor), etc.
10.0—News.
10.15—See Hamburg.
10.35—Sports Review.
10.40—Peter Arco and the Börschel
Band.

Band. 12.0 m't.-3.0 a.m. (Sunday)—See Breslau,

LEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).

Relayed by Dresden, 1,285 kc/s (233.5 m.).

5.50 a.m.—News; Weather.
6.0-8.20—See Berlin.
8.20—Schwerdfeger (Double Bass), Sammler (Pfte.)
8.30-9.30—See Königsberg.
9.55—Water Level.
10.0—See Breslau.
10.30-10.45—Weather; Programmes.
11.35—Talks; Time; Weather.
12.0 noon—See Vienna.
1.0 p.m.—Time; News.
1.15—See Vienna.
2.0—Time; News; Exchange.
2.15—Records: Light Music.
3.20—"The Fabulous Circus!"—Songs and Tales.
3.50—Time; Weather; Markets.
4.0—See Breslau.
6.0—A Modern Dictionary.
6.15—"Carinthia's Mountains and Valleys"—Sequence (Kuss), The Leipzig "Tonkunstler" Orchestra, Conductor: Schmidt-Elsey.
A Carinthian Quartet and the Station Male Voice Choir, Conductor: Krahé.
7.0—News.
7.10—News.
7.10—Light Music—Leipzig Sym-

ductor: Krahé.

(.0—News.

(.10—Light Music—Leipzig Symphony Orchestra. Conductor: Blumer. Erna Roschner (Soprano), the Leipzig Larks, Günther (Flute), Two Pftes. Lustige Ouvertüre (Strecke). Aria, "Don Pasquale" (Donizetti). Excerpts, "Le Carnaval de Animaux" (Saint-Saëns). Guntner (Flute), I wo Fites, Lustige Ouvertüre (Strecke). Aria, "Don Pasquale" (Donizetti) Excerpts, "Le Carnaval de Animaux" (Saint-Saëns). Poetic Rambles (Brandts-Buys). Two German Folk Songs (arr. Mahr). Königskinder - Walzer (Löhr). Capriccio (Kempter). Overture (Kick-Schmidt). Frühlingsreigen (Mahr). Poetic Rambles (Brandts-Buys). Song, "Die Fledermaus" (Strauss). Concerto Fantasia (Blumer-Munkel). Song, "Die Fledermaus" (Strauss). Slav Rhapsody (Rust). 10.0 (from Dresden) - Leipzig Radio Ball—Dresden Orchestra. Conductor: Kretzschmar. Fricke Band, Vera Mahlke (Solo Dancer), Adolf Gassert (Ballet Master). Siegfried Niemann (Speaker); at 10.0—News.

Master), Siegfried Niemann (Speaker); at 10.0—News, 1.0-3.0 a.m. (Sunday)—Serenade

from Breslau.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW Transmits at intervals from 6.30 a.m. Transmits at intervals from 6.30 a.m.,
4.0 p.m.—" Les deux beffrois "—
Play (Vallas),
5.0—Amateurs' Hour.
6.0—Talk on Photography.
6.10—Records.
6.20—Cookery Talk; Record.
6.35—Sports.
6.45—Economic and Social Notes.

7.0-Records · "Rose de Marseille" 7.10—Talk for English Listeners;

7.10—Talk for English Listeners; Record.
7.30—News.
8.0—La maison claire: Music; Reviews, Sketch.
8.30 (also Toulouse (PTT) and Limoges (PTT))—"Le chemineau"—Three-Act Play (Richepin) by the Odéon Players from Paris. After the Programme,

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 5.0 p.m.—Motets by the Radio Choir, Conductor: Löhrer, Inno a Lodovicoil moro (Gaffurio). The Battle of Marignano (Jannequin). 20—Guilio Giulietti (Guitar).

5.20—Guilio Giulietti (Guitar).
5.40—Dance Records.
6.0—Helpful Hints.
6.15—Aldo Maggini (Accordion).
6.30—Talk on Fashions.
6.45—Tourist Talk.
7.0—Records: Light Music.
7.50—News.
8.0—Marches and Waltzes by the Faliero Mandoline Band.
8.30—"Basta con queste canzoni."
—Sketch (Frattini).
9.15 — Mariano Dessy (Violin).
Romances in G and in F (Beethoven). Adagio from the Concerto in G minor (Bruch). Tzigane (Ravel).

(Ravel). 9.45-10.15—Dance Records.

MOSCOW

172 kc/s (1,744 m.); 500 kW. 12.30 p.m.—Talks (Italian, Dutch). 5.0—Music; News; Talk, 7.0—Literature and Music, 9.30—News; Kremlin Chimes, 10.5—Talks (French, Spanish).

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
6.0 a.m.—Motto; Weather; Gym. 6.30—See Berlin.
8.0—Motto; Gym.
8.30—9.30—See Königsberg.
10.0-10.30—See Cologne.
11.0 — Markets; Zither; For Farmers; News; Topical Talk; Records.
12.0 noon—See Vienna.
1.0 p.m.—Time; News; Topical.
1.15—See Vienna.
2.0—News; Exchange; Sports.
2.25—Records: Light Music.
3.40—Readings (Nebelthau), 4.0—See Frankfurt.
6.0—Time; Weather; Markets.
6.10 — "Musical Jokes"—Station Chamber Choir. Conductor: Zengerle. Fiedler (Songs and Recitations), Schönleben (Flute), Pfanzelt (Clarinet), Fürst and Ströse (Bassoon), Strom (Pfte.). Folk Music of Old Austria Mälzelkanon (Beethoven), Geh'n wir im Prater (Mozart). Heiterkeit und leichtes Blut (Mozart). Scherzo (Strom) Two Canons (Mozart) Ballad (Scheffler).
6.45—Topical Review; News.
7.10—See Deutschlandsender.
8.0—To be announced.
8.15—See Cologne.
10.0—Time; News; Sports.
10.20—"Dancing into Sunday!"
— Station Dance Band, and Schrammel Ensemble. Martina Farrar (Soprano), Blacky Huebner (Pfte.).
12.0 m"t.-3.0 a.m. (Sunday)—See Breslau.

NAPLES GROUP

NAPLES GROUP

Naples (No 1), 1.104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

7.45 a.m.-6.10 p.m.—See Rome Group; at 5.15 (Florence No. 1) only)—See Turin Group.

7.0—Music and Songs.

7.10—Topical Review.

7.20—Como Choir, Music by Rampoldi, Mascagni, Colombini and Carabella.

8.0-8.30—See Rome Group.

8.30—"Il paese dei campanelli" (Lombardo-Ranzato). Conductor.

(Lombardo-Ranzato). Conductor: Mancini. In the interval—Talk. 10.0 (approx.)—Dance Music. 11.0-11.55—News; Dance Music.

NICE-COTE d'AZUR

1,185 kc/s (253.2 m.); 60 kW. Transmits at intervals from 6.50 a.m. Transmits at intervals from 6.50 a.m.
9.45 p.m.—Station Orchestra. Conductor: Matras. Overture,
"Coriolanus" (Beethoven). In
the Steppes of Central Asia
(Borodin). Peer Gynt Suite
(Grieg). Slav Dances (Dvořák).
After the Programme, News.

OSLO

OSLO

260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 10.30 a.m.
2.5-3.0 p.m.—Records.
4.0—Stavanger Orchestra. Conductor: Knudsen.
4.45—Announcements; Weather.
5.8—For Children.
5.35—Variety Programme.
6.45—News; Weather; Music.
7.30—Talk.
7.55—Station Orchestra. Conductor: Kramm.

Kramm.

tor: Kramm.
8.40—Recitation.
9.15—Light Music.
9.40—News; Topical Talk.
10.15-11.0—Dance Music.



Excusive "World-Radio" Picture

Mme. Simone Bonelli, who takes part in the Paris (PTT) afternoon transmission (2.30 p.m.)

PARIS (Eiffel Tower)
1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.
6.30 p.m. — Pierre Bayle and
Jacque-Simonot (Songs).
7.0—The Voice of Youth.
7.15—Gina Relly (Songs).
7.30—Radio Journal.
8.15 (appropx.) (also Lyons (PTT)

7.30—Radio Journal.
8.15 (approx.) (also Lyons (PTT),
Bordeaux-Lafayette and
pellier (PTT))—"Carmen" (Bizet)
from the Opéra-Comique. Cast:
Mmes. Gilly, Rolland, Thélin,
Fenoyer; MM. Altery, Musy,
Ravoux, Derroja, Buck, Payen,
and Gilles Conductor: Bigot.
After the Opera, News.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange; Talk. 12.10 p.m.—For Children, with Jaboune and Thérèse Dorny. 12.30—News.

12.30—News. 12.40—Max Lajarrige (Cinema Or-

gan); Record.
1.0—"The Treasure Hunt," with Pierre Dac.
1.23 — Amusements; Antoinette

New States and States

7.15—"Towns of Italy" — Sequence.
7.45—Hahn Opcretta Records. Excerpts, "Ciboulette," "O monbel inconnu" and "Mozart."
8.0—Topical; Programmes.
8.20—Pauline Carton.
8.35 — La Table tournante:
"Madame de Sevigne"—Sketch (Bergerac).
8.40 — Records of Franckie Carle (Pfte. Jazz).
8.50—"La bönne histoire."
9.0—Max Regnier and Company.
10.0—Records.
10.30—Cabaret.
11.0—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Trahsmits at intervals from 6.30 a.m.

9.18 a.m.—Records.

10.45 — Records: Excerpts, "Le bourgeois gentilhomme" (Molière) with Lully music.

11.0—Yatove Orchestra.

11.45—Cassard Orchestra.

12.16 p.m.—Marie-Thérèse Holley (Songs).

12.30—Cassard Orchestra.
12.45—News.
1.0—Cassard Orchestra.
1.45—Talk on French Spas.
2.0—Dramatic Criticism.
2.15—Talk: Parisian Reflections.
2.30—Variety for Hospitals. Part I. Two Etudes (Chopin) by Boris Zadri (Pfte.). Part II. Suzanne Feyrou (Songs). Part III. "Je ne suis pas pour yous"—Play (Constantin Brive). Cast: Berthe d'Yd, Simone Bonelli and Paul Castan. 12.30—Cassard Orchestra.

Egyrou (Songs). Part III. "Je ne suis pas pour vous "—Play (Constantin Brive). Cast: Berthe d'Yd, Simone Bonelli and Paul Castan.
3.30—Literary Talk.
3.50—Talk; Aviation Notes.
4.15—Juliette Stora (Songs).
4.30—"La Boulonnaise" Band. Conductor: Ménéglier. Overture, "Le roi de Lahore" (Massenet). Chants russes (Lalo). Concert Polonaise (Vidal). Invitation to the Waltz (Weber). Danse des Plébeiens (Maquet). Prelude to Act III, "Lohengrin" (Wagner). In the interval, Martial Singher (Songs).
3.0—Records.
6.30—Mlle Clavius-Marius (Pfte.). Descriptive Piece (Mendelssohn). Nocturne in F minor (Chopin). Polacca brillante (Weber).
6.45—Yvonne Louis (Songs).
7.0—Radio Journal; News.
8.10—Pierre Bayle and Jacque-Simonot (Songs).
8.30—10.30—Soirée tournante.
8.30—Orchestra. Conductor: Tomasi. Robert Burnier (Songs). Overture, "Ali Baba" (Cherubini). Songs (Canteloube, Emmanuel, Bourgault - Ducoudray, Soulage). Le petit elfe Ferme-L'Oeil (Florent Schmitt).
9.10—"Justice caricatured"—Dramatic Programme. Scenes II and III, "Un client sérieux"—Comedy (Courteline). Cast: Saturnin Fabre, Marcel Levesque, Jean Coquelin, Maxime-Léry, Gildès, etc.
9.50—Variety. Part I. Lyane Mairève (Songs). Part II, "Twenty Minutes in Piccadilly"—Fantasy (Clérouc), with Jane Montange, Ketty Emlyn, MM. Camus, Rene-Charles and the Author. Part III: Lise Bengali and André Dupin (Duets). Le vieux manège (Jacques-Simonot). Un soir à la Havanc (Ordner).
10.30—News; Records.
11.0—"Les amants de Sazy"—Three-act Play (Coolus) by the "Mai 36" Players.

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW. 6.28 a.m.—Programmes; Records. 6.40 — Time; News; Gym; Records.

cords.
7.15—News; Gym; Records.
8.0-9.10—News; Notes; Records.
9.40—Programmes; Records.
10.45—Readings and Records.
11.45—Exchange; Markets.
12.0 noon—Economics.
12.15 p.m. — Giardino Orchestra.
Overture; "Tsar and Carpenter"
(Lortzing). Waltz, Weaner Madln
(Zichrer). Selection, "Lakmé"
(Delibes). Nocturne aragonais
(Badenes). Lyric Suite (Grieg).
10—Time: News

(Badenes). Lyric Suite (Grieg).

1.0—Time; News.

1.15—Ballet, "Coppélia" (Delibes)
by the Giardino Orchestra.

1.30—Lovano (Songs).

1.45—Giardino Orchestra, Serenade (Chaminade). Selection, "Les Fantoccini" (Lecocq); Pro-

Fantoccini " (Lecocq); Programmes.
2.0—Educational.
2.30—Markets; Metals.
2.45—Talk; Film Review.
3.0—Mile Castang (Songs).
3.15—Topical Review; Aviation.
3.45—Laure Tessandra.
4.0—Colonial Programme.
4.30—Science Talk; Books.
4.50—American Markets; Poems.
5.10—For Children.
5.30—"Vive la mariée" — Farce for Children (Queste-Vasseur); Songs by Marcelle Dollet. School Choir. Conductor: Marcelle Queste.

Songs by Marcelle Dollet. School Choir. Conductor: Marcelle Queste.
6.0—Talk: Anniversaries.
6.30—Shipping: Talks.
6.58—Programmes: Educational.
7.45—Racing: Talk.
7.59—Time: Home Affairs.
8.8—Foreign Affairs.
8.15—Clément Duhour (Songs).
8.30-10.30—Soirée tournante.
8.30—" Justice caricatured" — Dramatic Programme. Excerpts, "Les plaideurs" — Comedy (Racine), Cast: Yvette Guilbert, Jean Coquelin, Romain Bouquet, Pierre Dux Elisabeth Nizan, etc.
9.10—Variety. Part I. "Une croisière en bateau mouche" —

Fantasy (Clérouc), with Jane Montange, Alice Furt, Ketty Emlyn, MM. Camus, Rene-Charles and the Author. Part III. Lise Bengali and André Dupin (Duets).

JUNE 17, 1938

Dupin (Duets).

9.50—News; Review in Rhyme.

10.5 — Orchestra. Conductor: Tomasi, Hérent (Songs). Songs:
(a) Le tambourin (Rameau), (b) Stândchen (Schubert), (c) L'enterrement du Duc de Guise (Laparra), (d) Le jardin d'amour (Vuillermoz). Ballet, Les hérétiques (Levadé).

10.35—Sound News.

10.45—Time; News. 11.0—Bouillon Dance Band. 1.0 a.m. (Sunday)-Programmes.

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m Transmits at intervals from 6.0 a.m.
3.0 p.m.—The Sokol Olympic Games, 1938—Report from the Sokol Stadium.
4.0—Weather; Report.
4.10—Variety from Kosice.
5.35—Home Affairs; Records.
5.45—For Farmers.
5.50—Industrial Programme.
6.5—For Workers.
6.20—Balsanek Salon Orchestra.
Mlejnek (Songs).
7.0—Time; News; Politics;

Michek (Songs).
7.0 — Time; News; Politics; Economics.
7.20—Report: The Sokol Olympic Games, 1938.
7.35—See Bratislava.
9.0—See Brno.
9.55—News; Sports; Records.
10.30-11.30—See Brno.

RADIO EIREANN

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1,30-3.0 p.m.—Records. 5.30—Light Music by Kathleen Burke's Trio and Peter Moran

Burke's Trio and Peter Moran (Baritone).

6.25—Summer Sports—Rowing, by J. J. Hayes.

6.35—Irish News Feature.

6.45—News.

7.0—"The Fiddler"—Play for Midsummer Night (Caroline Mooney).

7.30—Val. Vousden (Entertainer).

7.45—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara. Wind Quintet, H. P. Doherty (Cor Anglais).

8.35—Dance Music from Inchicore Fête.

8.35—Dance Music from Incheore Fête.
9.0—Dr. Eoin MacNeill speaks about Dr. Douglas Hyde.
9.10 — Commentary from St. Patrick's Hall, Dublin Castle. Commentators: Bernadette Plunkett and Brian Durmir.
9.30—Variety Programme.
10.30—News; National Anthem.

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW. 1,411 kc/s (212.6 m.); 15 kW.
7.10 a.m.—Call
7.15—Press Review; News.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time: The Animal Man.
8.30—Happy Days.
8.45—For Children.
9.0—Time; Normandie Playbill—News; Music.
9.15—With the Immortals—Musical Problem

News; Music.

9.16—With the Immortals—Musical Problem.

9.30—Harry Davidson and his Commodore Grand Orchestra.

9.45—Military Band.

10.0—Time; Thirty Minutes of Bright Music, Song and Humour—Carroll Gibbons and his Band, Ame Lenner, George Melachrino, Frank Titterton, etc. Compère: Russ Carr.

10.30—Radio Favourites.

10.45—Something for Everybody; at 11.0—Time.

11.15—Songs We Know Them By.

11.30—Chansonnettes.

12.0 noon—Records of Damia and the Guerino Orchestra.

12.30 p.m.—News.

12.40—Concert.

2.0—Military Moments.

2.15—Gipsy Charm.

2.30—The Nimble Needle.

2.45—The Whirl of the World.

3.0—Red Rose and White Rose.

3.30—Dance Music.

4.00—The Pleasant Quarter Hour.

4.16—Swing Music.

4.30—Old Friends.

5.0—Time; Request Music.

5.30—Variety.

6.0—Children's Corner.

6.45—Talk; News; Racing Results.

5.30—Variety.
6.0—Children's Corner.
6.45—Talk; News; Racing Results.
7.0—Records.
7.30—News; Talk.
8.0—Light Music.
8.20—The Whitsun Lottery Draw.
9.0—To be announced.
11.0—Café Concert Records.

12.0 m't.—Melody at Midnight. 12.30-2.0 a.m. (Sunday)—Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW. ransmits at intervals from 6.30 a.m.

Transmits at intervals from 6.30 a.m.
6.45 p.m.—News in English.
7.0—Radio Journal.
7.39 — Orchestral « Suite, " King David" (Honegger). Conductor:
Louis Martin.
8.0—News; Records; Reading.
8.30—See Strasbourg.
9.45—See Nice-Côte d'Azur. After the 'Programme, News, and Concert.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.

See Sunday.
7.45 a.m.—Gym.
8.0-8.20—Time; News.
11.30—Angelini Orchestra.
12.30 p.m.—Records: Light Music.
1.0—News.
1.15—Station Band.
2.0-2.15—Time; News.
4.40—For Children.
5.0—News; Lotteries.
5.15—Ornella Puliti - Santoliquido (Pfte.). Sonata in B flat (Clementi). Tic-toe-choc (Couperin). Sonata in G (Pollini). Le coucou (Daquin). Two Preludes (Alderighi).

(Daquin). Two Preludes (Alderighl).
5.50—Aviation Notes.
5.55—For Workers.
6.10-6.50—For Farmers.
7.0—Talk in Esperanto.
7.20—Dopolavoro Notes.
7.30—See Turin Group.
8.0—News; Talk; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—"Biraghin"—Three-Act Play (Fraccaroli).
10.30 (approx.)—Dance Music.
11.0—Time; News.
11.15-11.55—Dance Music.

SAARBRÜCKEN

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17, kW.
Relayed by Kaiserslautern, 1,429
kc/s (209.9 m.).
6.0 a.m.—Hymn; Motto; Gym.
6.30—See Berlin.
7.10—Records.
8:0 — Time; Weather; Programmes; Gym.
8.30-9.30—See Königsberg.
10.0-10.30—See Breslau.
11.0—For Town and Country.
12.0 noon—See Vienna.
1.0 p.m.—Time; News.
1.15—See Vienna.
2.0—News.
2.15—See Vienna.
2.0—News.
2.15—See Cologne.
6.0 — "Der Zuchthäusler"—Humorous Reading (Christensen).
6.10—Old Dances (Records).
6.30—Katharina Nicklas (Songs).
Two Pites. Songs (Mozart): (a)
Das Veilchen, (b) Die Zufriedenheit, (b) Warrung. Pite. Duo:
Sonata in B flat (Clementi).
Songs (Haydn).
7.0—Time; News; Records.
7.30—Topical Review.
8.0—See Vienna.
10.0—Time; News; Music.
10.30—Music from Munich.
12.0 m²t. 3.0 a.m. (Sunday)—See Breslau.

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).

(748 m.).

12.29 p.n.—Time; News.

12.40 — Records of Damia. Josephine Baker, Rina Ketty, Jean Sirio and Tito Schipa.

1.15—Dance Rècords.

1.30 — Records: Concerto in C (Prokofiev) by the Composer (Pfte.) and the London Symphony Orchestra, Conductor: Coppola.

2.0—Records.

5.0—See Monte Ceneri.

6.0—Talk for Women.

6.15—Records.

6.15—Records.
7.0 — Talk: The Co-operative

System,
7.10—Talk: The Co-operative System,
7.10—Talk: Swiss Clock-makers in Prussia in the Eighteenth Century.
7.20 — Talk: The French-Swiss Lake Beaches.
7.30—Music.
7.50—News.
8.0—Variety Programme aboard a Lake Steamer. Dance Band, Nitta Rette (Soprano), Frank Guibat (Teñor), The Minstrels and Muller and Urfer (Pfte. 1222).

Jazz). 10.30-11.0-Dance Records.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW Motala, etc. See Sunday. Transmits at intervals from 6.20 a.m. Transmits at intervals from 6.20 a.m. 12.5 p.m.—Gösta Berlin (Organ). 12.30—News; Exchange. 1.0—Georg Ender's Orchestra. 2.0—Talk: The Bothnian Fishers. 2.30 — Märta and Elvin Ottoson (Operetta Songs). 3.0—Tremolo Mandoline Band. 3.30—Reading.

3.30—Reading.
4.0—Records.
5.5—For Young People.
5.30 — Ole Willumsen (Pfte.).
Arabesque (Schumann). Screnade (Mozart-Busoni). Sonatina (Lars-Erik Larsson). Pieces (Riisager). Tartar March (Riisager-Willumsen).
6.0—Talk: The Fifteth Anniversary of the Sundsvall Fire.
6.30—Accordion Music.
7 (0—News)

30—Accordion Music.

0—News.
30—Marches and Waltzes. Radio.
Orchestra. Conductor: Hellman.
March, Under the Double Eagle
(J. F. Wagner). Wiener Praterleben (Translateur). Wedding
March, (Mendelssohn). Waltz,
"Eugene Onegin" (Tchaikovsky).
The Phantom Brigade (Myddleton). Künstlerlehen (Strauss).
March Potpourri (Hruby).
30—Report.

8.30—Report Midsummer in the Country

10.0—News. 10.15-11.0 - Fagerlund's Dance

STRASBOURG

STRASBOURG

859 kc/s (349.2 m.); 100 kW.

Transmits at intervals from 6.30 a.m.

12.0 neon — Station Orchestra.

Conductor: Bour. Eby Bassoon). Overture, "Waldmeister"

(Strauss). Elegy (Borda). Waltz, L'Etoile polaire (Waldteufel). Millöcker Potpourri (Morena). Polka for Bassoon and Orchestra (Fucik). Fantoccini (Gillet). Marche étoile (Jeanjean).

12.45 p.m.—News; Notes.

1.15—Music from Paris (PTT).

1.45-2.0 — Economic and Social Notes.

2.30—For Farmera (Granda).

Notes.
2.30—For Farmers (German).
2.45—Records of the Cuban Melody Boys.

2.30—For Farmers (German).
2.45—Records of the Cuban Melody Boys.
3.0—Louise Waksman (Pfte.) and Gena Polane (Soprano). Pfte.:
(a) Partita in B flat (Bach), (b) Children's Corner (Debussy). Songs: (a) Aria, "Galatea" (Handel), (b) Adieu (Fauré), (c) Aurore (Fauré). Pfte.: (a) Saudades do Brazil (Milhaud), (b) La montre de la perite Nana (Mitsler). Songs: (a) Hebrew Songs (Milhaud), (b) Je sais une maison (Erb), (c) La Belle au bois dormant (Erb).
4.0—See Lille.
5.0—Mendelssohn Concert. Station Orchestra. Conductor: de Villers. Louise Waksman (Pfte.). Overture, "Ruy Blas." Pfte. Concerto in G minor. Suite, "A Midsummer Night's Dream." 6.0—Economic and Social Notes. 6.30—French Lesson.
6.45—Records of Corsican Songs sung by Micheletti: 7.0—News. 7.30—See Rennes-Bretagne. 8.0—News (German, French). 8.30—"Le soleil de minuit"—Play (Fleischmann).
9.45—See Nice-Côte-D'Azur. 10.30—News (French, German). 11.0—See Paris (Radio-Paris).

STUTTGART

574 kc/s (522.6 m.); 100 kW.
5.45 a.m. — Hymn; Time; Weather; For Farmers; Gym.
6.36—News.
6.30—See Berlin.
8.6—Water Level; Weather; Markets; Gym.
8.39—9.30—Records.
10.9-10.30—See Breslau.
11.0—Closing Session of the First Reich Students' Congress in Heidelberg—Address by the Reich Student Leader.
12.0 noon—Station Orchestra.
Conductor: Görlich. Schimmer (Violin). Hungarian Comedy Overture (Kéler-Béla). Waltz, "Gipsy Love" (Lehár). Kriegsabenteuer (Strauss). Violin and Orchestra: Faust Fantasia (Sarasate). Mazurka, "A Life for the Tsar" (Glinka). Italian Caprice (Tchaikovsky).
1.0 p.m.—Time; News.
1.15—Band. Conductor: Bara; Karl Klein (Cinema Organ). March, Frühlingseinzug (v. Blon). Angeworfen die Propeller (Buder). Diable (Stafford). Flieger empor (Buder). Flieger-Eskapaden (Brase). Funterbunt

SATURDAY (June 25)

(Jungherr), Ministerfaníare (Husadel), Fliegerparade (Rath). Waltz, Deutsche Mädels (Koch-mann), Marche bizarre (Simon). Panzerschiff Deutschland (Erich

mann), Marche Dizelle (Brich Panzerschiff Deutschland (Erich Schumann).

2.0—Folk-Music. Stuttgart Folk-Music Ensemble, Rehfeld Peasant Band, the Winkler Family and Käte Telheim.

3.0—Week-end Records.

4.0—Light Music. Station Orchestra. Conductor: Bara. Stuttgart Folk-Music Ensemble, Jautz (Tenor), Lilly Preisig (Soprano), Hans Hanus and Eduard Pöltner.

6.0—Topical Programme.

6.45—Echoes of the First Reich Students' Congress in Heidelberg and the Reich Students Sports at Mannheim; Cultural Calendar.

7.0-News

1.6—News.
1.5—" Baden "—A Merry Picture, including two Sketches: (a) "Z'Müllem an der Post" (Vydt), (b) "Die Indianer" (Haber). The llg Schrammel Ensemble, Scheer (Accordion), The Merry Five (Songs), and Speakers.

8.15-Variety Concert from Vienna, 10.0—Time; News; Sports. 10.30—Music from Munich.

12.0 m't.-3.0 a.m. (Sunday)-See Frankfurt.

TALLINN

731 kc/s (410.4 m.); 20 kW. Transmits at intervals from 7.0 a.m. Transmits at intervals from 7.0 a.m.
3.10 p.m.—Third Concert of the
Estonian Choral Society's Festival.
Part I: Tallinn Mixed
Choirs. Songs by Kapp. Saar,
Vettik, Päts, and Kreek. Part II:
To be announced.
6.30—For Young People.
7.40—News.
8.0—Time; Report; Reading.
8.40—Station Orchestra. Conductor:
Nikolai.

Nikolai 9.55—Time; News; Sports Notes. 10.15-11.0—Dance Band.

TOULOUSE (Radio-Toulouse)

Toulouse)
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
12.0 noon—Request Music.
12.30 p.m.—News; For Children.
12.50—Light Music.
1.30—Selection, "Les gangsters du chateau d'If" (Scotto).
1.45—Light Orchestral.
1.55-2.0—News.
6.0—News.

1.45—Light Orchestral.
1.45—Lo—News.
6.0—News.
6.15—Operetta Music. Excerpts;
"Les cloches de Corneville";
(Planquette), "La favorita",
(Donizetti), "La Mascotte",
(Audran), "La coupe du roi de
Thulé" (Diaz), and "Paganini"
(Lehár)
6.40—Opera Music. Excerpts,
"Madame Butterfly" (Puccini),
"La dame blanche" (Boieldieu),
"La Basoche" (Messager).
6.55—News; Chansonnettes.
7.45—Light Music; News.
8.0—Film Music; News.
8.0—Film Music; Songs.
9.10—Talk,
9.15—Popular Songs—Fantasy.
9.30—Dance Music.
10.0—News; Light Music.
10.35—Musette Orchestra.
10.45—Marches; Light Music.
11.45—Dance Music.
12.0 m't.—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. m.); 7 kW. See Sunday.

7.45 a.m.-2.15 p.m.—See Rome Group. 4.40—For Children.

5.0—News. 5.15—Dance Music.

5.50-6.50—See Rome Group.
7.19 (Rome (No. 2) only)—News in English.
7.20—Dopolavoro Notes,
7.30—Radio Orchestra.
8.0-8.30—See Rome Group.
8.30—Band of the Besaglieri; at 8.36 (Milan (No. 1), Rome (No. 2), and Bolzano)—News and Mail (German).
9.0—"La via della finestra" (Zandonai) Conductor: The Composer. Chorus Master; Consoli.
Cast: Iris Adami Corradetti, Giuseppina Sani, Adriana Perris,
Augusto Ferrato, Giuseppe Noto

11.6-11:5—News; Weather.

and Ubaldo Tofanetti. In the intervals—Talk, Announcements. 11.0 (approx.)—News. 11.15 p.m. (approx.)-12.30 a.m. (Sunday)—Dance Music.

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. .0 a.m.—Motto; Weather; Gym. .30—See Berlin.

6.30—See Berlin.
8.00—Markets.
8.30—Sa0—See Königsberg.
10.30—Light Music by the Viktor Korda Singers and Players.
11.0—For Town and Country.
12.0 noon—Dances of the Nations—Vienna Symphony Orchestra.
Conductor: Nilius, Invitation to the Dance (Weber-Berlioz).
Dance Suite from Pfte. Pieces (Couperin-R. Strauss). Two Latvian Peasant Dances (Kalnins).
Palotas, "Harry Janos" (Kodály). Tango (Sonzogno).
1.0 p.m.—News.
1.16—Old Viennese Dances. Vienna Symphony Orchestra. Conductor: Nilius. Bruckbauer and Malcher (Violins). Wiener Künstler (Schrammel). Ländler for Two Violins and Orchestra, Nachtfunken (Lanner). Aquarellen-Walzer (Strauss). Polka, Feuerfest (Strauss). Old Viennese Dances and Musical Box Pieces (arr. Nilius). Ballet, "Ritter Pasman" (Strauss).
2.0—News.
2.10—Records, Ballad in F (Chopin) by Casadesus (Pfte.). The Twenty-Third Psalm (Schuhert) by Erk's Male Voice Choir. Hungarian Military Band. Aria, "Eugene Onegin" (Tchaikovsky) by Alfred Jerger (Baritone). Santa Lucia (arr. Gordigiani) by Franz Völker (Tenor). Dann gehich hinaus in den Wienerwald (Stolz) by Franz Völker (Tenor). Dann gehich hinaus in den Wienerwald (Stolz) by Franz Völker (Tenor). Bavarian Dance (Elgar) by the London Symphony Orchestra. Conductor: The Composer. Fairy-tale and Cradle Song (Drdla) by the Composer. Schütz" (Weber).
3.0—News.
4.0—See Frankfurt.
6.0 (from Klagenfurt)—Community Singing. Conductor: Anderluh.
6.30—Topical Review.
6.45—See Stuttgart.
7.0—News; Weather.
7.10—"Peter Rossegger's Forest Home"—Programme for the 20th Anniversary of the Author's Death.
8.0—"Dancing in the Summer Night"—Variety Concert (arr. Riedinger). Vienna Chamber Orchestra, Conductor: Sandauer; Station Orchestra, Conductor: Sandauer; Station Players.

10.0—News. 10.30—See Berlin. 12.0 m't.-3.0 a.m. (Sunday) — See

WARSAW

WARSAW

224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.
Transmits at intervals from 6.15 a.m.

3.15 p.m.—"Little Lord Fauntleroy" — Play after
Hodgson (Balicki).

3.45—Economics.
4.0 (from Poznar)—Station Salon
Orchestra. Conductor: Raabe.
4.45—Report.
5.0—Dance Music. In the interval, Programme Notes.
6.0—Programmes; Concert.
6.45 (from Lwów)—Poems.
7.0—Adamska ('Cello) and Urstein
(Pfte.). Sonata in G (Breval).
Habanera (Jongen). Capriccio
(Murrill).
7.25—Tonical Talk.

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

	AHOI	12 III OKDEI		ノ「	FKE	QUEINCIES A	AIVI	リ V		(ACTEING I LO
kc/s	m. kW Band	Station No. 1. 150-300 kc/s.	kc/s	m.	kW 1	Assiut (Egypt)	kc/s	m.	10	Genoa (No. 1) (Italy)
	1973.5 5	Ankara (Turkey)	731	410.4	3	Madrid (EAJ2) (Spain)	1140	263.2		Trieste (Italy)
153	1961 7	Kaunas (Lithuania) Hilversum (No. 1) (Holland)			5.5 2 0	Seville (EAJ5) (Spain) Tallinn (Estonia)			7 20	Turin (No. 1) (Italy) LONDON NATIONAL
160	1875	(10 kW only until 8.40 B.S.T.)	740	405.4	100	Munich (Germany)	1149	261.1	20	NORTH NATIONAL
	150	Radio-Romania (Romania)	749	400.5	100	Marseilles (PTT) (France)	1158	259.1	50	SCOTTISH NATIONAL
	1807 150 1744 500	Lahti (Finland) Moscow (No.1) (U.S.S.R.)	758	395.8	1 12	Pori (Finland) Katowice (Poland)	1167	257.1	10 15	Kosice (Czechoslovakia) Monte Ceneri (Switzerland)
	1648 80	Radio-Paris (France)			60	BURGHEAD	1176	255.1	10	Copenhagen (Denmark)
	1622 5	Istanbul (Turkey)	767	391.1	70	SCOTTISH REGIONAL	1185	253,2	0.5	Nice-Côte d'Azur (France) Cassel (Germany)
187.5 191	1600 -20 1571 60	Irkutsk (U.S.S.R.) Deutschlandsender (Germany)	776	386.6		Sortavala (Finland)		-	2	Coblenz (Germany)
	1500 150	DROITWICH	110	300.0	10 120	Stalino (U.S.S.R.) Toulouse (PTT) (France)	1195	251	25	Frankfurt (Germany)
208	1442 35	Minsk (U.S.S.R.) Reykjavik (Iceland)	785	382.2	120	Leipzig (Germany)		- (5 2	Freiburg-im-Breisgau (Ger.) Trier (Germany)
216	1389 150	Motala (Sweden)	795	377.4	7.5 50	Barcelona (EAJ1) (Spain). Lwów (Poland)	1204	249.2	5	Moravská-Ostrava (Czecho.)
217.5		Novosibirsk (U.S.S.R.)	804	272.1	5	PENMON (Anglesey)	1213	247.3	0.3	Lille (Radio PTT Nord) (France) Narvik (Norway)
	1339 120	Warsaw (No., 1) (Poland) Luxembourg	804	373.1	70	WELSH REGIONAL	1222	245.5	60	Rome (No. 2) (Italy)
	1293 100	Moscow (No. 2) (U.S.S.R.)	814	368.6	50	Milan (No. 1) (Italy) Bucharest (Romania)	1231	243.7	5	Gleiwitz (Germany)
	1250 60 1209.6 100	Kalundborg (Denmark) Kiev (No. 1) (U.S.S.R.)	823	364.5	0.4	Rueil-Malmaison (Radio 37)	1235	242.9	5	Görlitz (Germany) Cork (Eire)
	1170 25	Tashkent (U.S.S.R.)	023	304,35	10	(France)	1249	240.2	17	Saarbrücken (Germany)
2(0	20	Bergen (Norway) Oslo (Norway)			0.5	Bodö (Norway) Agen (France)	1258	238.5	1 15	Florence (No. 2) (Italy) Rīga (Latvia)
260	1153.8 60	Vigra (Aalesund) (Norway)	832	360.6	10	Stavanger (Norway)	1230	200.0	20	Burgos (Spain)
	1107 100	Leningrad (No. 1) (U.S.S.R.)	841	356.7	100	Kiev (No. 2) (U.S.S.R.) Berlin (Germany)	1267	236.8	27	Nürnberg (Germany)
	1065 10 1060 35	Tromsö (Norway) Tiflis (U.S.S.R.)	371	200.1	1	Porsgrund (Norway)	1276	235.1	27	Radio-Méditerranée (France) Varna (Bulgaria)
			850	352.9	100	Sofia (Bulgaria)	1285	233.5	1	ABERDEEN
200		No. 2. 300-500 kc/s.			3	Valencia (Spain) Saragossa (Spain)			5	Dresden (Germany) Klagenfurt (Germany)
300 340	1000 100 882.3 20	Moscow (No. 3) (U.S.S.R.) Saratov (U.S.S.R.)	859	349.2	10	Simferopol (U.S.S.R.)	1294	231.8	5	Vorarlberg (Germany)
347	864 10	Finmark (Norway)			100.	Strasbourg (France)	1303	230.2		Danzig (Danzig Free City) - Karlstad (Sweden)
350 355	857.1 10 845.1 20	Archangel (U.S.S.R.) Rostov-on-Don (U.S.S.R.)	868	345.6 342,1	16 70	Poznań (Poland) LONDON REGIONAL	1212	220 75		Malmö (Sweden)
	834.5 18	Budapest (No. 2) (Hungary)			15	Graz (Germany)	1312	228.7		Norrköping (Sweden)
375	800 40	Sverdlovsk (U.S.S.R.)	886	338.6	15	Linz (Germany)	1321	227.1		Trollhättan (Sweden) Magyaróvár (Hungary)
392	765 \ 30	Banská-Bystrica (Czecho.) (Power 15 kW after 6 p.m.)	895	335.2	10	Helsinki (Finland) Limoges (PTT) (France)			2	Bremen, Flensburg, Hanover,
	2.	5 Boden (Sweden)	904	331.9	100	Hamburg (Germany)	1330	225.6	0.5	Stettin (Germany) Magdeburg (Germany)
401.	(0	3 Geneva (Switzerland) 6 Ostersund (Sweden)			10	Dniepropetrovsk (U.S.S.R.)	1333.3	3 225		Thessaloniki (Greece)
413.5	120 1 10	Voronezh (U.S.S.R.)	913	328.6	60	Toulouse (Radio - Toulouse)	1339	224	2	Lódz (Poland)
431	696 10	Oulu (Uleaborg) (Finland)	922	325.4	32	(France) Brno (Czechoslovakia)			0.5	Montpellier (PTT) (France) Cairo (No. 2) (Egypt)
	Band I	No. 3. 500-1,500 kc/s.	932	321.9	, 15	Brussels (No. 2) (Belgium)				Dublin (Eire)
512	586 0.	5 Tartu (Estonia)	- 941	318.8	12 10	Algiers (North Africa) Göteborg (Sweden)	1348	222.6	.2	Königsberg (No. 2) (Germany) Naples (No. 2) (Italy)
519		7 Hamar (Norway)	950	315.8	100	Breslau (Germany)			0.15	Rjukan (Norway)
	1. 6	Innsbruck (Germany) 3 Ljubljana (Yugoslavia)	959	312.8	60	Poste Parisien (France)			0.7	Salzburg (Germany) Tampere (Finland)
527	309.3 10	Viipuri (Finland)	968	309.9	10	Bordeaux-Sud-Ouest (France) Odessa (U.S.S.R.)			2	Bari (No. 2) (Italy)
536	559.7	Bolzano (Italy) Wilno (Poland)	977	307.1	100	NORTHERN IRELAND		,	5	Genoa (No. 2) (Italy)
546	549.5 120	Budapest (No. 1) (Hungary)	1.8		C =0	REGIONAL	1357	221.1	0.15	Milan (No. 2) (Italy) Notodden (Norway)
556	539.6 100	Beromünster (Switzerland) Radio Eireann (Eire)	986	304.3	50	Bologna (Radio - Marconi) (Italy)			1.	Rome (No. 3) (Italy)
565	531 10	Klaipeda (Lithuania)	700		60	Toruń (Poland)	1366	219.6	0.2	Turin (No. 2) (Italy) L'Ile de France (France)
	3	Palermo (Italy)	995	301.5	60	Hilversum (No. 2) (Holland)	1375	218.2	0.5	Basle, Berne (Switzerland)
574	522.6 100	Stuttgart (Germany) Alpes-Grenoble (PTT) (France)				(Power 10 kW only until 8.40 B.S.T.)	1384 1393	216.8 215.4	7 25	Warsaw (No. 2) (Poland) Radio-Lyons (France)
583	514.6 { 50	Madona (Latvia)	1004	298,8	13.5	Bratislava (Czechoslovakia)	1402	214	2	Stara-Zagora (Bulgaria)
592	506.8 100	Vienna (Germany) Athens (Greece)	1013	296.2	70	Chernigov (U.S.S.R.) MIDLAND REGIONAL	1411	212.6	15	Radio-Normandie (France)
601	499.2 20	Rabat (Morocco)			3	Barcelona (EAJ15) (Spain)	1420	211.3	0.5	Vaasa (Finland) Alexandria (No. 2) (Egypt)
610	491.8 20	Sundsvall (Sweden) Florence (No. 1) (Italy)	1022	293.5	1.7	Cracow (Poland)	1429	209.9	2.5	Kaiserslautern (Germany)
620	4830 15	Brussels (No. 1) (Belgium)			100	Oviedo (Spain) Königsberg (No. 1) (Heilsberg)			0.5	Milan (No. 3) (Italy) Turku (Finland)
	(20	Cairo (No. 1) (Egypt) Kouibyshev (U.S.S.R.)	1031	291 <	100	(Germany)	1438	208.6		Miskole (Hungary)
625					5	Parede (Portugal)	1456	206	7	Eiffel Tower (Paris) (France)
	480 10 20				>				0.1	
629		Christiansand (Norway) Lisbon (Emissora Nacional)	1040	288.5	10	Leningrad (No. 2) (U.S.S.R.)	1465	204.8		Antwerp (Belgium) Courtrai (Belgium)
629	476.9 20	Christians and (Norway) Lisbon (Emissora Nacional) (Portugal)	1040 1050	288.5 285.7	>		1465		0.1 1.25	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary)
629	$476.9 \begin{cases} 20 \\ 20 \\ 20 \\ 470.2 \end{cases}$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia)		285,7 283.3	10 120 50 20	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy)	1465 1474	204.8 203.5	0.1 1.25 1	Antwerp (Belgium) Courtrai (Belgium)
•	$476.9 \begin{cases} 20\\ 20\\ 20\\ 470.2\\ 120\\ 463\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 10$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France)	1050	285,7	10 120 50 20 20	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France)			0.1 1.25 1 0.3 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium)
638	$476.9 \begin{cases} 20\\20\\20\\470.2\\120\\100 \end{cases}$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia)	1050 1059	285,7 283.3	10 120 50 20	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy)	1474	203.5	0.1 1.25 1 0.3 0.1 0.2	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain)
638 648	$ 476.9 \begin{cases} 20 \\ 20 \\ 20 \\ 470.2 \\ 120 \\ 463 \\ 100 \\ 455.9 \\ 100 \\ 449.1 \\ 20 $	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine)	1050 1059 1068	285,7 283.3 280.9	10 120 50 20 20 10 60 2	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden)	1474	203.5	0.1 1.25 1 0.3 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain) Chatelineau (Belgium) Nimes (France)
638 648 658 668	$476.9 \begin{cases} 20\\ 20\\ 20\\ 470.2\\ 120\\ 463\\ 100\\ 455.9\\ 100\\ 449.1\\ 20\\ 70\\ \end{cases}$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL	1050 1059 1068 1077 1086	285.7 283.3 280.9 278.6 276.2	10 120 50 20 2 10 60	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia)	1474 1487	203.5	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain) Chatelineau (Belgium) Nîmes (France) Santiago (Spain)
638 648 658 668 677 686	$476.9 \begin{cases} 20\\ 20\\ 20\\ 470.2\\ 120\\ 463\\ 100\\ 455.9\\ 100\\ 449.1\\ 20\\ 70\\ 443.1\\ 100\\ 437.3\\ 20\\ 20$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL Sottens (Switzerland) Belgrade (Yugoslavia)	1050 1059 1068 1077	285,7 283.3 280.9 278.6	10 120 50 20 20 10 60 2 0.7 5	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia) Madrid (EAJT) (Spain) Vinnitsa (U.S.S.R.)	1474 1487	203.5	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Athacete (Spain) Chatelineau (Belgium) Nîmes (France) Santiago (Spain) Wallonia (Belgium)
638 648 658 668 677 686 695	476.9 20 470.2 120 463 100 455.9 100 449.1 20 70 443.1 100 437.3 20 431.7 120	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL Sottens (Switzerland) Belgrade (Yugoslavia) Paris (PTT) (France)	1050 1059 1068 1077 1086	285.7 283.3 280.9 278.6 276.2	10 120 50 20 21 10 60 2 0.7 5 10 25	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia) Madrid (EAJ7) (Spain) Vinnitsa (U.S.S.R.) Kuldīga (Latvia)	1474 1487	203.5	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain) Chatelineau (Belgium) Nîmes (France) Santiago (Spain) Wallonia (Belgium) Liége Experimental, Radio- Cointe (Belgium)
638 648 658 668 677 686	$476.9 \begin{cases} 20\\ 20\\ 20\\ 470.2\\ 120\\ 463\\ 100\\ 455.9\\ 100\\ 449.1\\ 20\\ 70\\ 443.1\\ 100\\ 437.3\\ 20\\ 20$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL Sottens (Switzerland) Belgrade (Yugoslavia)	1050 1059 1068 1077 1086 1095	285.7 283.3 280.9 278.6 276.2	10 120 50 20 20 10 60 2 0.7 5	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia) Madrid (EAJ7) (Spain) Vinnitsa (U.S.S.R.) Kuldīga (Latvia) Naples (Italy) Melnik (Czechoslovakia)	1474 1487	203.5	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5 0.1 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain) Chatelineau (Belgium) Nimes (France) Santiago (Spain) Wallonia (Belgium) Liége Experimental, Cointe (Belgium) Pietersaari (Finland)
638 648 658 668 677 686 695 704	476.9 20 20 470.2 120 463 100 455.9 100 449.1 20 443.1 100 437.3 20 431.7 120 426.1 55	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL Sottens (Switzerland) Belgrade (Yugoslavia) Paris (PTT) (France) Stockholm (Sweden) Rome (No. 1) (Italy) Hilversum (Jaarsveld) (Hol-	1050 1059 1068 1077 1086 1095 1104 1113	285,7 283,3 280,9 278,6 276,2 274 271,7 269,5	10 120 50 20 2 10 60 60 2 0.7 5 10 25 10 100	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia) Madrid (EAJ7) (Spain) Vinnitsa (U.S.S.R.) Kuldīga (Latvia) Naples (Italy) Melnik (Czechoslovakia) Alexandria (No. 1) (Egypt)	1474 1487 1492	203.5 201.7 201.1	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5 0.1 0.1	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Athacete (Spain) Chatelineau (Belgium) Nîmes (France) Santiago (Spain) Wallonia (Belgium) Liége Experimental, Radio- Cointe (Belgium) Pietersaari (Finland) Radio-Alcalá (Spain) Seraing, Verviers, Wallonia
638 648 658 668 677 686 695 704	$\begin{array}{c} 20\\ 476.9 \\ 20\\ 470.2\\ 463\\ 100\\ 455.9\\ 100\\ 449.1\\ 70\\ 443.1\\ 100\\ 437.3\\ 20\\ 431.7\\ 120\\ 426.1\\ 55\\ 420.8\\ 120\\ \end{array}$	Christiansand (Norway) Lisbon (Emissora Nacional) (Portugal) Trondelag (Norway) Prague (No. 1) (Czechoslovakia) Lyons (PTT) (France) Petrozavodsk (U.S.S.R.) Cologne (Germany) Jerusalem (Palestine) NORTH REGIONAL Sottens (Switzerland) Belgrade (Yugoslavia) Paris (PTT) (France) Stockholm (Sweden) Rome (No. 1) (Italy)	1050 1059 1068 1077 1086 1095 1104	285.7 283.3 280.9 278.6 276.2 274 271.7	10 120 50 20 2 10 60 60 2 0.7 5 10 25 10 100	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France) W. OF ENGLAND REG'L. Bari (No. 1) (Italy) Radio-Cité (Paris) (France) Tiraspol (U.S.S.R.) Bordeaux-Lafayette (France) Falun (Sweden) Zagreb (Yugoslavia) Madrid (EAJ7) (Spain) Vinnitsa (U.S.S.R.) Kuldīga (Latvia) Naples (Italy) Melnik (Czechoslovakia)	1474 1487 1492	203.5 201.7 201.1	0.1 1.25 1 0.3 0.1 0.2 0.1 0.7 0.5 0.1 0.1 0.25 0.2	Antwerp (Belgium) Courtrai (Belgium) Pécs (Hungary) BOURNEMOUTH PLYMOUTH Binche (Belgium) Albacete (Spain) Chatelineau (Belgium) Nîmes (France) Santiago (Spain) Wallonía (Belgium) Liége Experimental, Cointe (Belgium) Pietersaari (Finland) Radio-Alcalá (Spain)

ALL ADVERTISEMENTS FOR "WORLD-RADIO" should be addressed to the Advertisement Director, BBC, 35, Marylebone High Street, W.1.—Telephone: Welbeck 4468.

Coupons should be sent direct to the Advertiser.

Printed in England by WATERLOW & SONS LTD., Twyford Abbey Road, Park Roy al, N.W.10, and published by the British Broadcasting Corporation at 35, Marylebone High Street, London, W.1, England—June 17, 1938.