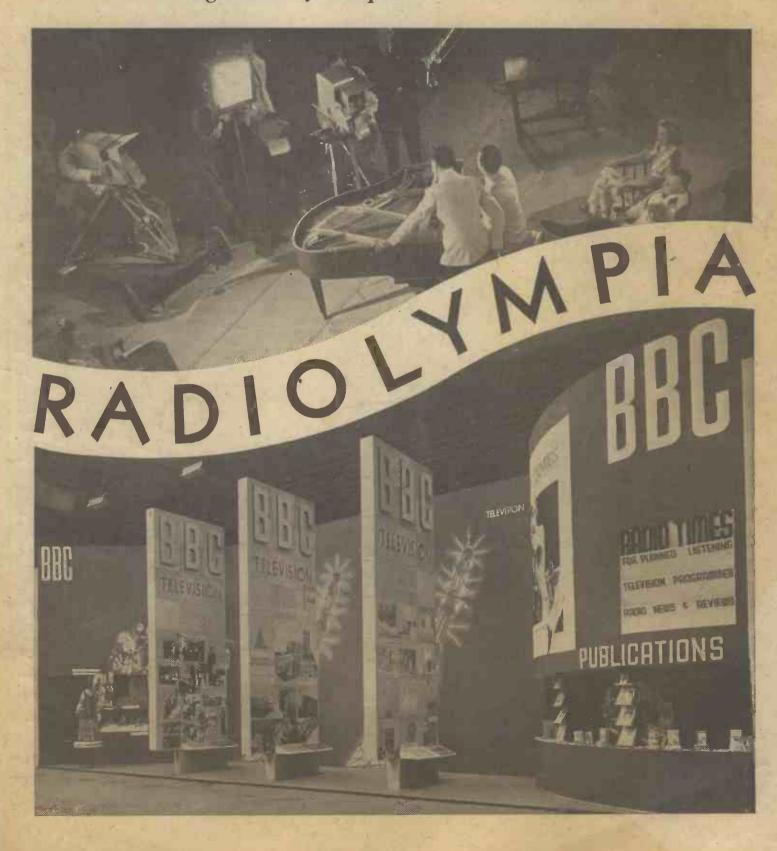
World-Radio

THE BBC FOREIGN PROGRAMME JOURNAL * EVERY FRIDAY

Programmes for September 4-10

20



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MADAME IRENE DUBISKA, who gives a violin recital of old and new music at Warsaw on Wednesday, September 7, at 6.10 p.m.

The Dutch Royal Jubilee

ROM Monday, September 5, till the end of the week the Dutch broadcasts will be devoted wholly to the national festivities in honour of the fortieth anniversary of Queen Wilhemina's Coronation. Other stations are to transmit commentaries and parts of the special broadcasts. On Monday at 2.10 (B.S.T.) the Queen's arrival at Amsterdam and the reception by the Municipality will be broadcast, as well as a programme of homage, conducted by Mengelberg; commentaries are also to be heard. Tuesday, the actual anniversary and national holiday, begins its broadcasts at 7.40 a.m., and from 10.25 till 12.30 the service of commemoration from the church will be relayed. National acclamations take up most of the afternoon, and at 8.40 p.m. a programme of youth's homage will be heard, after which, from 10.25 till 11.40 p.m., festivities in the town come through the microphone. On Thursday, at 2.25 p.m., the Queen will launch the *Oranje*, and on Friday, September 9, Amsterdam University is the centre of the festivities; the Queen is to receive the honorary degree of Doctor of Economy at 3 p.m.

As last week's issue of WORLD-RADIO showed, the celebrations have already begun, with talks on the events of the Queen's reign and the history of the House of Orange; programmes of national music have also been broadcast by one or other of the Dutch stations.

A Scandinavian Festival

BEGINNING on Saturday, September 3, with an Iceland programme, Kalundborg is broadcasting a series of festival concerts of Scandinavian music, one in which other broadcasters in that part of the world are to share. On Monday, September 5, music of Finland is to be presented, with the Finnish conductor Toivo Haapanen in charge; Sibelius's Third Symphony will be heard, along with newer music. On the following evening Sweden has its

THE PICK of the PROGRAMMES

innings, when Tor Mann and Nils Grevillius conduct a programme of recent works. Norway's turn is on Thursday, and most of its music, too, is by present-day composers; Odd Grüner-Hegge is the conductor of it. Denmark offers its own music on Friday, a varied programme of vocal and instrumental works, again mainly unfamiliar as yet, with Georg Höeberg, Launy Gröndahl, and Erik Tuxen as conductors, and Copenhagen artists as soloists. All these programmes are timed to begin at 8.10 p.m., and no one who hears even parts of them can have any doubt that music in those Northern lands is very much alive.

New Music at Venice

MUSIC'S advance-guard occupies the field in the Venice Festival, of which two concerts are to be broadcast by Italian stations in the coming week. On Monday, September 5, at 9.30 p.m. the Greek conductor Dimitri Mitropulos is to let us hear what present-day composers of Italian, Brazilian, and United States music have to say for themselves, in a programme which is more truly in accord with the "International" of the festival's title than the other. On Thursday, September 8, also at 9.30, it is devoted wholly to modern Italian orchestral music, with La Rosa Parodi as conductor. Not by any means everyone's meat, and not always such solid fare as the older masters set before us, the music at those international festivals does afford interesting samples of what our own time is contributing for our delectation. Listeners who welcome opportunities of keeping themselves abreast of



H.M. QUEEN WILHELMINA OF THE NETHERLANDS, the fortieth anniversary of whose accession is to be celebrated next week. With her is standing Lord Baden-Powell.

innings, when Tor Mann and Nils Grevillius the times will no doubt tune in oné or conduct a programme of recent works. other of the Turin group of stations for parts, Norway's turn is on Thursday, and most of its at least, of those two concerts.

The Nazi Party Congress

Throughout next week the annual Nazi Party Congress will be held in Nürnberg, and, as in former years, many of the speeches made there will be broadcast by the German stations. The detailed time-table had not come to hand at the time of going to press; the printed programmes, therefore, may be subject to considerable change. At all events, it can be assumed that the Congress will occupy a good share of next week's German programme times

A Louis XV Première

On Tuesday, September 6, at 8 p.m. Brussels No. 1 is to present an old French opera which had its first performance before Louis XV at the Italian Theatre, in Paris, in 1769; it is Le Déserteur, by Monsigny. "The musician who sang by instinct," as his fellow-countrymen called him, Monsigny was one of the selfreliant people who win success in their own ways in spite of having their energies forced into uncongenial channels. For many years a Civil Servant, he could turn to music only in leisure hours, and won his first success under an assumed name. Not till after the Revolution was he officially associated with the Opéra-Comique; he was seventy-one when he joined the staff of the Conservatoire, and eighty-four when he succeeded Grétry as a member of the Institute. Listeners who hear his opera on Tuesday will readily understand his popularity with the public of his day; his music is rich in melody which is as appealing now as it was then.

Two Vichy Concerts

THE French stations announce, among many interesting items—two Molière comedies, for instance—two concert relays from the Vichy Casino, on Monday and Wednesday respectively. The first will be directed by Bruno Walter, who, it will be remembered, conducted last Monday at Lucerne, and the second by Pierre Brun. The programme of the Walter concert includes Beethoven's Eroïca and Strauss's Death and Transfiguration. The first broadcast will be taken by Radio-Paris and its associated stations, and the second by Paris (PTT), Marseilles, and Grenoble.

ALL-WAVE



PAUL ROBESON, in a scene from "Showboat." He is the subject of next week's lecture-recital in Poste-Parisien's series of "Vedettes Inter-nationales," on Thursday, September 8, at 9 p.m.

SALZBURG FESTIVAL THEATRE

IT is highly probable, according to an Austrian correspondent, that the Festival Theatre at Salzburg will not be used again for the Musical and Dramatic Festival after the present season, which ended-with Fidelioon August 31.

There are wide differences of opinion among



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THE WORLD

French P.M. to Broadcast Weekly

with it: some are for building an entirely new theatre or opera-house in another part of the city and of an architectural design more in keeping with the famous old buildings which give Salzburg its especial distinction. There seems to be a positive "hate" of the present theatre's exterior, and it has been draped with Swastika flags and evergreens to hide what is considered its irretrievable ugliness. In some quarters its demolition is urged. This would leave exposed the rocks behind it, upon the face of which are now the Egmont scenic effects that have replaced the Faust background which had been there for many years.

THE FESTIVAL'S FUTURE

SALZBURG will now have to compete with Bayreuth and Heidelberg. The great problem facing those responsible for next year's Salzburg Festival is to revive the special lure that Salzburg has had during the last ten or twelve years for foreigners (and for North Germans). It held a fascination for British and American visitors such as no musical festival, anywhere, had ever done before, and brought them to Salzburg in August, year after year. The extraordinary beauty of the city and its surroundings was, of course, a potent factor, and that beauty remains. Whether a different kind of opera-house will improve the prospects of the Annual Festival would seem to be a matter for very careful consideration. Foreigners laugh at "Covent Garden's" bizarre situation, but a modern opera-house in Kingsway was rejected by the British opera public with disdain, and had to be turned into a picture-house—and Covent Garden remains.

BROADCASTING AND PEACE

FIVE years ago the League of Nations requested the International Institute of Intellectual Co-operation to draw up an international convention regarding the use of



DR. ENDRE HLATKY, Director of Programmes of the Hungarian Broadcasting Company, who has just been appointed "Staatsoberrat" (Higher State Counsellor).

those in authority as to what should be done broadcasting in the service of peace. This convention, after having been communicated to all States, whether or not members of the League, was submitted to an international conference at Geneva in September, 1936. The convention, signed by the representatives of twenty-three Governments, was ratified by eight of them (five belonging to the British Empire, the others being Denmark, Luxembourg, and Brazil), and came into force last

> The aim of the convention, of course, is to seek to eliminate from broadcast transmissions everything that tends to discourage good feeling between nations and, at the same time, to promote measures which would foster a spirit of mutual understanding and sympathy. Certain countries have already passed legislative measures which are inspired by the spirit of the convention.

FRENCH P.M.'S WEEKLY BROADCAST

M. DALADIER'S important broadcast covering his proposals to introduce modifications in the forty-hour week was followed by another speech (not broadcast), in which he announced his intention of broadcasting from a State station once a week during the coming period in order to keep the country informed upon decisions taken by the Government.

INDIAN SHORT-WAVE STATIONS

On August 16 the fourth short-wave station of All India Radio was opened at Calcutta. The new 10 kW transmitter, which has been set up at Cossipore, will broadcast on 31.48 m. (9.53 Mc/s) during the first transmission (from 7.6 a.m. to 9.6 a.m. B.S.T.) and on 61.48 m. (4.88 Mc/s) during the second transmission (from 11.36 a.m. to 5.6 p.m. B.S.T.). August 16 very nearly coincides with the eleventh anniversary of the opening of the Calcutta Broadcasting Station by the Indian Broadcasting Company. In those eleven years broadcasting has made considerable progress in India, though a parallel cannot be drawn with Western countries. Another short-wave station recently opened is that of Madras, where a 10 kW transmitter is operating on 60.6 m. (4.95 Mc/s) from 12 noon to 5 p.m. B.S.T.

Since June 16 Delhi has been broadcasting from a second short-wave transmitter on Sundays, Tuesdays, Thursdays, and Saturdays on 19.8 m. (15.15 Mc/s) for Transmission 1 (1.30 p.m. to 3.30 a.m.) and Transmission 2 (6.30 to 8.30 p.m.) and on 31.3 m. (9.59 Mc/s) for Transmission 3 from 12.30 to 5.30 p.m. These transmissions are additional to the regular Delhi short-wave broadcast, 31.3 m. (9.59 Mc/s) for Transmission 1 and 2 and 60 m. (4.99 Mc/s) for Transmission 3. Bombay short-wave transmissions are made on 31.4 m. (9.55 Mc/s) for Transmission 1 (2.30 to 3.30 a.m.) and Transmission 2 (6 to 8.30 a.m.) and on 61 m. (4.90 Mc/s) for Transmission 3 (12 noon to 5.30 p.m.).

RADIO

The Mutual Broadcasting System

N.Z. PARLIAMENTARY PROPRIETY NEW ZEALAND'S House of Representatives, always enjoying a good reputation for its propriety, is being forced into even better manners through the introduction of Parlia-Many letters have broadcasts. appeared in the newspapers from listeners who complained that they could not easily follow the Speaker addressing the House because there was a background of talk. So members who desire to chat adjourn to the lobbies. The Speaker (Hon. W. E. Barnard) recently made a pronouncement from the Chair, reminding members that as their proceedings are broadcast, the propriety of criticising persons who are outside Parliament comes into sharper outline. Therefore, he quoted for their guidance the rulings of two former Speakers that any references in debate to persons outside the House should be couched in language which is both temperate and moderate.

MBS ACQUIRES 23 NEW STATIONS THE Mutual Broadcasting System of America, the third of the great chains, is to celebrate its fourth birthday on September 15 next, by taking under its rapidly expanding wing the newly-formed Texas State network of twentythree stations. The Texas network has as its President Mr. Elliott Roosevelt, a son of the President. Its headquarters will be at Fort Worth, where elaborate studios and offices were to be ready on September 1.

The actual birthday, September 15, will be celebrated by a gala four-hour programme to be carried from coast to coast on the Mutual network-saluting the new acquisition of twenty-three stations. The MBS, by the way, will now have affiliations with 107 stations in the United States and Hawaii.

AN INDISPENSABLE GADGET

EXASPERATION at having to listen to prolonged sales "blurbs" inserted in otherwise enjoyable programmes stimulated an American listener-Mr. Harry K. Todd, of Tacoma, Washington -to defend himself with a screwdriver and a few other simple household tools. A retired business man rather than an inventor, Mr.

Todd nevertheless devised a successful "hush plug," which, attached to his receiver, instantly reduces volume to a mere whisper. Pressing the button a second time at the close of the "commercial" returns the signal to full strength. A length of electric cord, on a selfwinding reel, forms the attachment between the receiver and the listening "editor," who can thus sit at ease in his armchair at a distance while thwarting the persuasive sales efforts of announcers, the burbling of crooners, or the dreary eloquence of minor politicians. A further use for the "hush plug" occurs when the door-bell rings or someone in the room wants to speak on the telephone.



THELMA HUBBARD, CBS actress, who appears regularly in the "Hollywood Showcase" Friday programme, heard through Wayne short-wave station at 2 a.m. (Saturday).

"VOX POP." CHANGES TIME

PARKS JOHNSON and Wally Butterworth, conductors of the original "man-in-the-street "Vox Pop." broadcasts, great favourites with NBC audiences for the last six years, will have a new schedule and sponsor from Saturday, October 1, when they will be heard from 9.0 to 9.30 p.m., E.S.T. (Sunday, 2.0 a.m. to 2.30 a.m. G.M.T.) over the NBC-Red Network.

The new series will present the same enter-

tainment which has established "Vox Pop." as one of the country's outstanding radio programmes. The broadcasts, entirely unrehearsed, star" only members of the public whom Johnson and Butterworth encounter in hotel Johnson is one of the original interviewers who brought the programme to New York in

Ernest von Dohnányi



I something an occasion when Ernest von Dohnányi broadcasts in the Budapest programme. Apart from Dohnányi, the pianoforte virtuoso. concert-goers and broadcast listeners know Dohnányi the conductor and Dohnányi the composer. He is chairman - conductor of

Budapest Philharmonic Orchestra, as well as the composer of many successful operas, sym-

phonies, and pianoforte pieces.

Born more than sixty years ago of musical parents, his musical career might be said to have been decided while he was still in the cradle. His talent showed early, and he began to study music when only six. At the age of eighteen he had finished the composition of three string-quartets, a string sextet, a Mass, and many pieces for pianoforte and voice. While he was studying at the Budapest School of Music (of which he is now Director) his pianoforte quartet in C minor was performed by fellow-students in the presence of Johannes Brahms, then the greatest living master of music, who took a lively interest in the young composer and arranged for immediate performances of the quartet in many European concert-halls.

He completed his high-school education within three years, and began a concert tour as pianist, which extended over five years, and included most towns of any musical importance in Europe and the United States. In 1900, he gave, in England, thirty-two concerts in less

than two months.

In 1908 the Berlin High School of Music offered Dohnányi the Chair for Pianoforte. He lived in Berlin for about ten years, increased his reputation as virtuoso and teacher, and continued to compose.

Among other compositions for the stage, a pantomime, Pierrette's Veil, and an opera, Aunt Simone, performed first in Dresden in 1910 and 1912 respectively, won for Dohnányi popularity in German musical circles.

Upon an invitation to take over the pianoforte professorship of the Budapest School of Music, he returned to Budapest in 1916. Within a short time he was appointed Director of the school. He has been actively interested in the development of the orchestra of the Budapest Philharmonic Society, to the direction of which he was elected by unanimous vote. As the head of this orchestra he has visited Italy and Paris during the last few years.

Among recent compositions the Hungarian symphony, Ruralia Hungarica, and the two repertoire pieces of the Budapest Opera House, The Tower of the Woiwoda and The Tenor, are best known.

Dohnányi is keenly interested in broadcasting and is a member of the Advisory Council on Music of the Budapest Broadcasting Company.

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 11.

- Richard Wagner's "Ring" consists of four parts. Name them.
- What are the countries of origin of the following dances?—(a) Polonaise; (b) Czardas; (c) Minuet; (d) Galop; (e) Fandango; and (f) Hornpipe.
- Who was the composer of, and what was the name of the opera founded upon, a play of the same name by Oscar Wilde?
- "A treble Tosca," "Oh busy Kiev," and "O can Fidelio harp?" are anagrams. Rearrange them so as to give, in order, a noted

conductor, a broadcasting station, and a famous singer.

What are the "Northern Messenger" broadcasts? From which country do they

Who are the following ?—(a) "The Gospel Singer;" (b) "Cavalier of Song;" (c) Dorothy Thompson; and (d) "Schnickle-

Which American short-wave station broadcasts weekly a feature entitled "The New World Salutes the Old"? What is the nature of the broadcast?

Ouestions submitted by R. H. Miller, 63, Kingscourt Road, Streatham Hill, London, S.W.16.



There appears to be a general impression that this year's Radiolympia is concerned with two classes of exhibits only: television receivers and sets provided with press-button tuning. But, while these are undoubtedly the keynote of the Show, the short-wave enthusiast is generously catered for, as is shown in the following review.

THE Editor's instructions to me were that I should deal with the 1938 Radiolympia mainly from the point of view of the short-wave enthusiast. My first impression (subsequently proved to be entirely erroneous), after an initial rapid tour of the stands, was that he had set me an almost impossible task. The Exhibition has two key-notes: television and press-button tuning, and these are so strongly sounded on the majority of the stands that they tend to submerge everything else.

Possibly your first conclusions were much the same as mine: buttons everywhere for the listener's forefinger to press; screens everywhere for the eye of the viewer to gaze upon; but very little to attract the man or the woman, infected with the microbe of short-wave listening, who had come specially to see what progress had been made in equipment for the reception of those stations which transmit sound only on frequencies reckoned in Mc/s per second.

The truth is, as no doubt you also found, that there's plenty of short-wave interest at Olympia, and that it is very far from being just a pressbutton-cum-television show. There has been very real progress in short-wave and "all-wave" receiving gear, though the concrete proofs of it are not brought so prominently to our notice as in past years; you have to disperse the overshadowing haze of press buttons and television in order to find them.

Easier Tuning of S.W. Sets

First, receiving sets themselves. One important step that I noticed is that a good many makers are going in for the four-band or five-band "all-wave" type in their better-quality models. The greater number of bands, within reason, into which the short-wave range is split up, the easier does tuning become. I defy anyone to log the majority of the 15-Mc/s broadcasting stations—much less to note their settings for future reference—with a set on whose tuning dial the 19-metre band occupies a quarter of an inch, or less! In many receivers which have only a single short-wave range this rather important point has received attention. Scales are less cramped, pointers less reminiscent of the kitchen poker; in some instances, an auxiliary dial is provided, which makes not only fine tuning, but also fine reading, a very much simpler business.

There is a praiseworthy tendency for the better "all-wave" sets to cover both the 17-Mc/s

(16-metre) and the 21-Mc/s (13-metre) bands. These are most useful for daytime reception, and the repertoire of the set which covers them is greatly extended.

The increasing use of a radio-frequency amplifying stage operative on the short waves is another sign of progress. Besides making for that great sensitiveness which we so often need, this also helps to cut out second channels and to make the set generally more selective.

A DX MAN
AT
RADIOLYMPIA
By R. W. HALLOWS

I was very interested in the specialised receivers of what is known as the communication type which were on view. These may be described as modified forms of the receivers used by professional operators for commercial work. They have certain features (such as selectivity adjustable at will to a matter of only a few kc/s, very close calibration, and the provision of a beat-frequency oscillator) not usually found in broadcast receiving sets, which make them a joy to handle on the short waves. I predict that we shall see a great deal more of this type of set.

Chassis Sets

Some years ago it was not possible to obtain "ready-made" sets in chassis form; you had to buy them complete with cabinet. Now receivers containing from three to a dozen valves are available as chassis pure and simple, and most attractive some of them are. Not the least of their charms from the point of view of the constructionally-minded enthusiast is that he can alter or "improve" them from time to time according to his own sweet will. Many patterns are to be obtained nowadays, and amongst them there is probably something which will exactly meet your particular requirements.

I was delighted with many of the tuning drives that I handled. You can't do fine tuning with a drive that goes in jumps and jerks, and few things are more exasperating than one which suffers from backlash. I handled many tuning knobs whose motion was the sort of thing that one dreamt of, but never found realised, in years gone by. For successful work on the short waves your tuning drive must be as smooth as silk and completely positive. You will find just such drives as that in many of the new season's models.

Anti-Interference Aerials

A matter of increasing moment to short-wave enthusiasts is man-made interference. The best of sets is of little use on the short waves if unwanted noises from domestic or commercial electrical machinery, or from ignition systems of passing vehicles, are continually assaulting our ears. When anti-interference receiving equipment first began to appear it was pretty effective on the medium and the long waves, but on the short waves it had one rather serious disadvantage: it was apt to eliminate not only the interference which you didn't want, but also the signals that you did! Enormous strides have been made in the design of anti-interference aerials for use with "all-wave" sets. They are now thoroughly efficient on the short waves, and in the majority of instances it is possible to get rid of man-made interference without detriment to reception on any wavelength.

To the many sufferers from man-made interference the stand of the General Post Office must be of special interest. Though the authorities have still no power to compel those causing interference to take measures for its prevention, they can and do take any amount of trouble to help listeners to obtain interference-free reception. If you are at all in doubt as to whether an anti-interference aerial or other devices will prove effective in your-particular case, the Post Office will investigate, making no charge for the time and trouble spent, and will give the soundest of advice. This splendid service, by the way, is now extended to television reception.

Apart from external noises, there are two kinds which are the particular bugbears of the long-distance listener, whether he is working on the medium waves or the short. The first of these, which has been all too common in the past, is the uproar that can be produced by a defective manual volume control. Simple though it looks, the volume control has proved one of the most difficult of all wireless components to design and manufacture satisfactorily. It is good to see that

(Continued in column 3, page 9)

THE BERLIN SHOW AND RADIOLYMPIA

An English Visitor's Impressions of the Two Exhibitions

BY MANDER BARNETT

ALTHOUGH technically the Berlin Radio Exhibition may have much in common with the Radiolympia show, there is a world of difference between the two exhibitions. The Berlin show has the advantage of very extensive exhibition halls and grounds, the buildings themselves being modern and light. This year a most impressive new hall has been built—a huge This year a building which is really three halls in one—and, compared with Olympia, there seems to be more room for the exhibitors, and the stands are more widely spaced.

To an English visitor, the general atmosphere of the Berlin show seems to be that of a lighthearted festival where the technicalities of radio are frequently forgotten, but where the pleasure,

the instruction, and the entertainment to be had by means of radio and television reception are very much empha-The open-air restaurants, with their gaily-coloured tables and umbrellas and the beautiful flower gardens overshadowed by the Broadcasting Tower all help to produce an atmosphere of gaiety. The English visitor must surely gain the impression that for Mr. and Mrs. German Listener a visit to the Berlin Radio Exhibition is an exciting day's outing for the whole family—for there were also more children to be seen there than one normally sees at Olympia.

Nevertheless, the Berlin show was an exceedingly comprehensive exhibition, and much space was devoted to receiver parts and technical apparatus, as well as

complete receivers.

Television in Berlin and London

Undoubtedly, the television exhibits drew big crowds at both the exhibitions, but whereas in London very many firms were showing receivers in actual operation on the stands in the centre of the hall, in Berlin a separate hall was reserved for television, and many receivers could be seen in operation in semi-darkness. The arrangement at Olympia more closely approximates to actual home conditions, and viewers can see there that a very dark room is not essential for television reception.

The exhibition of large-screen tele-vision by the Fernseh Company in Berlin was very impressive, and a screen approaching cinema-screen size was reproducing excellent pictures to a crowd as big as one would find in a small cinema. The detail of the pictures was

excellent, and the system certainly possesses dis-

tinct entertainment value.

Several firms were showing normal size television receivers, which are now to become available to the public for the first time in Germany.

The firms exhibiting television receivers at Olympia had the good fortune that on the first day of the show they were able to relay part of the last day of the Test Match at the Oval— for what could have been better than this for bringing home to the listener the future possibilities of television?

No Complete Radiograms

To the casual observer there does not appear to be any very great difference between the radio

receivers shown at Berlin and Olympia. The Germans seem to have gone in entirely for the horizontal cabinet rather than the upright type, and many of the cabinets are finished in a very dark shade, sometimes nearly black—a rather refreshing change from the proverbial "brown of the average receiver in this country. Another striking feature about the receivers at the Berlin show—possibly caused by economic conditions, but definitely not without its attractive points—was that there were practically no complete radiogramophones to be seen. Instead, many firms are producing "playing desks" often in comparatively luxurious cabinets and generally consisting of a playing motor and pickup mounted on a tray in the upper half and a

New type of flat loudspeaker in the entrance to the new hall in the Berlin Exhibition grounds,

compartment for holding many records in the pick-up and there must surely be many lower half. The tray can be pulled out for the purpose of changing records, etc., and can be closed during the actual playing. This type of closed during the actual playing. instrument has the advantage that a table-model receiver can be bought first and the gramophone portion purchased afterwards, if necessary; also, the set itself can be scrapped and changed for a later model at any future date without the necessity and expense of changing the complete radiogramophone-for motors and pick-ups change very little these days and do not go out of date in the space of a year or two. Furthermore, owing to the fact that the loudspeaker is up at the top alongside the receiver chassis, there is considerable room for storing records in the cabinet itself, whereas the average radiogramo-

phone of the conventional type has no provision for storing records.

The receivers, too, appeared noteworthy for their very large tuning dials with many station names printed in large clear letters.

At Olympia this year, undoubtedly the biggest attraction in sound receivers is the emphasis on push-button tuning, whereas at Berlin only a few receivers were to be found with this feature. One firm at Olympia was exhibiting receivers in which the button, which is made of semi-transparent material, lights up as soon as it is pressed and one can see at a glance which station is tuned in. Just to prove that push-button tuning is by no means new, one firm was showing a motor-driven push-button tuning unit which, by

its appearance, was probably made some-thing like ten years ago!

Car Radio

Although car radio receivers seem very popular these days, judging by the number of car roof aerials seen on the roads, there was very little evidence of car receivers to be seen at either show. Probably at Olympia this is due to the fact that many receivers in use in this country are of trans-Atlantic origin.

At the Berlin show, nevertheless, car radios had a small exhibit all to themselves, and on a stand erected out in the grounds, several very shining and spickand-span new cars were on show, in which car receivers were installed and apparently permanently switched on! The installations were particularly neat, the aerial systems being entirely hidden.

At Berlin, of course, one of the outstanding exhibits was the new little A.C./D.C. receiver which sells for the equivalent of 35s. at par. From a technical point of view, one noted the extreme care taken in completely covering all metal parts in contact with the chassis (important in universal receivers where contact with the chassis may produce a serious shock), at the same time providing adequate ventilation for the valves and voltage-dropping resistance.

In Germany, aerials consisting of a straight vertical rod mounted on the roof or on a chimney stack appear to be very popular, and one sees this type of aerial all over the country. It is interesting therefore, to note that at Olympia this year an English firm is showing a good example of this type of aerial. It

occasions when their use would be preferable to the usual horizontal wire. Where space is limited, they are comparatively easy to erect, and frequently their appearance is considerably neater than that of a long, straggling wire.

Technical Review RADIOLYMPIA will be found on pp. 12 to 15

A Woman Visitor to Olympia agrees that

SEEING IS BELIEVING

THE débutante Radiolympia of 1926 has evolved into woman of the world. At this, her thirteenth, season she has discarded glamour

and acquired poise.

Gone are the swaddling-clothes of gold and blue that were wont to drape the body of the hall; the glint of chromium no longer dominates the décor of every stand; demure maidens in poke bonnet and crinoline, and pseudo-Knightes of Olde are not now thought necessary for the ensnarement of the unwilling or the unwary in the coils of a superhet. The centre-piece is no more, and even the great backcloth, which told the world, with strange device, Excelsior-fashion, the latest licence-figures, bears only the decorous design of the R.M.A. coat of arms.

Sure of its place in a radio-conscious universe, Radiolympia can now dispense with the heralds and the bunting, and leave the show to speak for itself—and act for itself. For grown-up Radiolympia makes itself both heard and seen. And there is no need for a show of hands to demonstrate that the "eyes have it" over the ears, so far as crowd-collecting goes. Television

holds court at Olympia!

That is not to say that the broadcasting receiver does not arouse—and deserve—an equal share of attention. It does. But the study of the sound-receiving set is done by a steady progression in twos and threes and small groups; while Television lures, on the one hand, a patient queue for the studio performance, and, on the other, excited assemblies that swarm the stands to view the televised programme, and become almost swivel-eyed in their eagerness to compare the picture before them with that being received on larger or smaller screen sets ranged alongside.

Seeing the "Wheels Go Round"

On the opening morning (Wednesday, August 24), I was one of a throng of people, hushed and tense with interest, who watched the Test Match. My own interest in cricket is limited, but those of us who were less absorbed in the fortunes of the game were the more conscious of the miracle of science we were privileged to witness. We had seen how "the wheels went round" in a studio event, while we peered, fascinated, through the windows of the glass house—at which no one, I am sure, had thoughts of throwing anything but bouquets-while, apparently, a rehearsal was in progress. But this outdoor, unrehearsed happening was even more a thing of wonderment. No flood-lighting of the scene here; no make-up for the leading players; no adroit placing of the "supers" in the grandstand! Yet here they supers " were: the men who were making cricket history for two hemispheres, and those who watched them in the flesh all unconscious that they, too, were being watched by absent spectators-spectators dotted about in mildly jostling crowds like ourselves or seated comfortably in the privacy of their homes. And we, the absent, could see all, and not be seen in turn. Small wonder that we felt like super-beings, possessed of a magic eye!

That over, some of us—strangers until we found ourselves so readily seeing, almost literally, eye to eye—lingered to discuss the "play;" others began straight away their tour of this vast showroom. Many, obviously, were trade buyers; the rest, like me, had come "shopwindowgazing" to see what improvements the radio world could offer them on the set they used at present, at a price to suit their means.

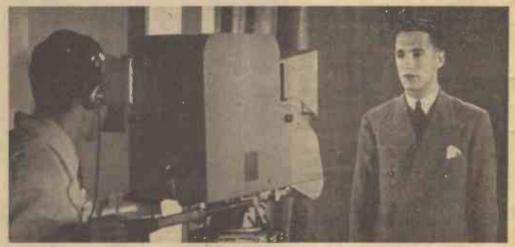
A market-place of limitless variety and infinite possibility surrounded us. The products of one more year's research and experiment in laboratories and factories were "on appro." Riches indeed, but riches that need not, as once, em-

barrass the beholder. I thank whatever radio gods there be that masquerader-wireless-sets of earlier exhibitions seem to have died—unnatural deaths, I hope! Those "novel" loudspeakers in the guise of an African warrior's shield, or of a clock-case reminiscent of the Victorian little boy's essays in fretwork; the Tudoresque firescreen that suddenly announced: "Pale Hands " and the Old Master-turned-Old Moore who told us whence to-morrow's stormy winds would blow-these seem now but the skins sloughed by radio during the early stages of her evolution. Then came the "refained" phase of pastel-hued, shot-silk, and marzipan decorative effects, whose culminative expression I remember as two fat cherubs sitting on an alabaster lampshade, but whose reiteration to all and sundry of a whispered "Horsey, keep your tail up" seemed somehow faintly indelicate. "Not angels, but angles," might well have been the motto for yet another stage in radio's sartorial developmentthat transition period from the antique to the modern which is so ingenuously boasted of by dued kind in use, which accords more with my own taste for natural, as opposed to highlypolished, woodwork.

Since vulgarity and expensiveness quite often go hand in hand, I should like to record that the most costly set I saw—one priced at more than 350 gns.—was one I thought really beautiful. Its oblong-shaped cabinet of pale cream was of the dimensions of a modern sideboard or curio cabinet. It had rippled, diagonally-set side panels, and the front section which formed the loudspeaker screen was a brilliant combination of an unusual kind of gauze and Chinese red lacquered carving. All tuning devices were cleverly concealed, as was also the gramophone section with record-holder. The set was already sold, and I can imagine it equally at home in some Eastern palace or in a Western music room, designed by the best among contemporary interior decorators.

Televised Fashion Show

Evening—and I must confess it, not only that evening—found me "queueing up" for the television programme, and naturally, first for "Fashion Forecast." The programme which pleased me most, for I am taking my holiday in September, was devoted to sports clothes — almost all of them in suède. I had previously



Leonard Hutton, the Yorkshire cricketer, facing the television camera.

the makers of meaninglessly distorted objects as "modernistic."

But Radiolympia, 1938, has said goodbye to all those. Within its well-ordered spaciousness there is not a place for even their ghosts. The stands have never been better arranged either from the consideration of presentation or of function. On most of those exhibiting television receivers everything possible has been done for the comfort of viewers in the way of wide approaches to the sets and ample room left around each to enable the maximum number to watch without inconvenience. A number of the exhibitors have fitted up dark rooms or recesses, and some of these have seating accommodation. Ornamental accessories on the stands have been almost entirely eliminated, so that attention is no longer distracted from the real exhibits. And these, for the most part, show improvement not only of performance and in ease of tuning, but in appearance, a matter which, perhaps, counts more with women than with men. Whether it be a small portable of the suitcase type, a receiving installation for the car, or a console radiogram and television receiver, it can be chosen to harmonise with its surroundings. There are sets there-some of them high-figure sets-which seem to me the epitome of vulgarity, but these are definitely in the minority this year. The one feature which I, personally, should like to see improyed is the gauze panel. The average giltcolour and the patterning of the mesh seem to introduce a flashy note to even the most restrained cabinet work. I have seen a more sub"viewed" one display on a stand, and knew that the televised picture, plus the spoken commentary, was as good as seeing the original in the studio, but nevertheless there was a special thrill in seeing the mannequins pose unconcernedly before the powerful arc lights, and then walk leisuredly down a flight of stairs, along a "walk" and out through a door. Suits ranged from a Paprika-red outfit comprising suede semi-fitting overcoat worn over a jacket and skirt of the same material, and with matching beret, bag, and gloves, which would have made a striking effect on the race-course, to more everyday colour-combinations.

to more everyday colour-combinations.

After Fashion, came "Picture Page." This was indeed a series of "pages from real life." Among them we saw a quartet of tap-dancers, a Chinese conjurer do a disappearing-girl trick (and she really was found inside the already corded-up trunk); we saw Hutton being interviewed by Leslie Mitchell, "Joss," the newspaper cartoonist, drawing lightning caricatures on pink paper, and three old Chelsea Pensioners in their scarlet coats and cockaded tricorns. And, afterwards, back in the big hall again, we "viewed" and listened to a performance of The Rivals, by Sheridan—a surprisingly vivid and arresting performance.

And only two years have elapsed since Television was instituted as a service! What will it, too, be showing us by the time it comes to its thirteenth season? When we are a world of viewers as well as listeners, shall we all see "eye to eye"?

LEAVES FROM MY LOG

By "Log-Roller"

THERE WERE DISTURBANCES

YOU may remember that a week or two ago I suggested that the terrific storms that we had at the beginning of August were probably something more than mere vagaries of the weather. I have just had the cosmic data report for this period, which shows that there were severe magnetic disturbances at the time. The sunspot report has unfortunately not come yet, but it will be surprising if it does not show pronounced solar activity. On the 1st August a rather violent magnetic disturbance began at 07.46 and continued for nearly 24 hours until 07.00 on the 2nd. A fresh disturbance, much more violent in character, began at 21.36 on the 3rd and lasted until 11.00 on the 4th. This was followed by further rather smaller disturbances. Tokio reports wireless black-outs at 01.50 on August 1st and at 01.05 on the 3rd.

WORTH NOTING

In the issue of August 12, if you remember, I described the experiences of a reader who obtained exceedingly good reception of stations in the middle and lower part of the mediumwave band, but could hear little or nothing of those whose wavelengths are above about 463 metres. I suggested then that the shortness of his aerial might possibly be the cause; but an Amersham Common reader reminds me of another possibility, which I ought to have thought of at the time. He had a very similar experience, but found, quite by accident, that by altering the H.T. voltage of the frequency-changer he could obtain reception on rather higher wavelengths, though he still could do

little with stations at the very top of the band. However, on replacing the valve with a brandnew one he was able to get right up to 549.5 metres—or right down to 546 kilocycles, whichever you prefer.

IT ISN'T UNCOMMON

As a fact, it isn't at all uncommon to find either the oscillator portion of a frequency-changer or a separate oscillator valve refusing, after a good deal of service, to oscillate properly on certain wavelengths. I certainly should have thought of that explanation myself, for I have had similar trouble with one of my own sets. It covers the short waves in no less than six bands, and not long ago it completely "packed up" on the one which takes in the higher frequencies. I located the trouble quite quickly: as even passing motor cars didn't produce a sound from the loudspeaker it was clear that the frequency-changer wasn't oscillating on the belt of frequencies involved. That, incidentally, is the only time that I have ever been grateful for ignition-system interference! I thought at first that the wavechange switch might be defective, but resolved to try a new valve before doing anything else. Directly the valves were changed the set regained all its old liveliness and all was well.

BETTER CONDITIONS

As soon as we get a spell of more settled weather you will, I think, be surprised at the improvement that you will find in conditions on the medium-wave band. My records, which go back for a good many years, show that as a

rule you don't get a gentle glide from summer to autumn conditions. The improvement seems nearly always to take place in a series of quite noticeable jumps, one of which very often occurs about the middle of August. This year the vagaries of the weather have made searching for distant medium-wave stations an unprofitable business during the greater part of the month. Things are rather better now, though atmospherics are still more than a nuisance. Once these leave us in peace I am sure that you will be able to enter in your logs many stations that you haven't heard for months. The next big step may be expected towards the middle of September, and from then onwards progress should be rapid.

MAN-MADE INTERFERENCE

There's one way in which readers could help a good deal in reducing the menace of man-made interference. I said, a fortnight ago, that radiating domestic appliances were still being widely sold and that motor cars whose ignition systems played havoc with short-wave and ultra-shortwave reception were going on to the roads every Why shouldn't wireless enthusiasts make a vow not to purchase any household electrical appliances unless they are satisfied that they don't radiate? Again, why not refuse to buy a car which causes interference when its engine is running? If even a small proportion of listeners did this and wrote to the makers of the apparatus or the cars to tell them why they hadn't purchased their goods, we should soon see a very big difference. I don't see why this shouldn't be done, for manufacturers, after all, have received plenty of notice that antiinterference legislation is pending and it is surely up to them to protect their customers from the consequences of possessing offending apparatus when legislation comes into force, as it probably will before so very long.

READERS' FORUM

"RADIO-ANKARA TESTING"

SIR,—In the hope that it will be of interest to other readers, I take this opportunity of sending in this report. While tuning through the 19 metre band this morning at 10.15 (B.S.T.) I came upon an extremely loud signal which, from the type of item being broadcast, I took to be some fairly local station transmitting a programme for the East. After a few moments came the announce-ment "Hallo! Hallo! Radio-Ankara testing on 15,195 kc/s." After this came more Eastern music, followed by popular dance numbers, including "You can't take that away from me." These were followed by marches and more Eastern music and at 11.04 (app.) the station closed down with the words "We are now closing down." No indication of power or regular transmission times (if any) was given, but reception was exceptionally good, being at a signal strength of R9 for practically the whole transmission. There was however slight fading to R8, but the transmission was fully intelligible and quality was excellent.

The receiver used was an Sg-v-2, battery operated, and reception was on the loudspeaker. Have other readers any further details of this station?

PETER C. SHENTON. Graveley, Huntingdon, August 29.

EARLY-MORNING LISTENING

I am very interested in your reports of Early-Morning Listening, and in particular I wish to congratulate your Belfast correspondent Mr. J. P. Walsh and the writer of the S.W. News-Reel from Bexhill, not only on their wonderful achievements, but also on account of the fact

that they have not been threatened by summonses from irate and/or jealous-minded neighbours who may be disturbed by these stations coming in at "terrific volume" when everyone else is, or should be, sleeping!! How do they do it?

For my part, I get a very well-known pianist -who lives 200 yards diagonally opposite to me-complaining that I mustn't even use my set during the day because through his open window he can hear my wireless (while I can hear his typewriter). I dread to think what would happen if we dared to search the shortwave band and got stations at "terrific volume" at such an early hour. We have been told that people cannot object to one's wireless and that they have no business to threaten one. If a person spoils another neighbour's reception deliberately while another programme is being radiated (say, out in a garden) and does so continually then there may be grounds for complaint; but when a person is "eavesdropping" so to speak, that is another matter. The programmes are perfectly legal fare, meant to be heard, and I maintain that it is no one's business when or what one listens to, and there are sure

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

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Subscriptions to Publications Dept., Broadcasting House, London, W.1, or 35, Marylebone High St., London, W.1.

to be two or three other people's wireless sets going at the same time, that could be heard if your own was not on—that do not interfere with each other.

BELINDA BEACON.

Manchester, August 28.

[While there is, of course, no embargo on the reception, at reasonable volume, of any broadcasting station, without causing inconvenience, the policy of "the good neighbour" is one to be kept in the forefront of every listener's mind.

—ED]

A DX Man at Radiolympia

(Continued from page 6)

this year so much attention has been devoted to this small, but enormously important, part of the receiving set. It is perhaps not too much to hope that the scratchy, scrapy volume control will soon be no more than an unpleasant memory

The second noise nuisance is the hiss that is apt to occur in superhets, when they are used in a sensitive state. A new type of valve of great promise has made its appearance this year. It is actually a development of the high-frequency pentode, which has been made by the addition of an extra "silencing grid" between the cathode and the control grid. It certainly cuts down superhet, noises very considerably, and, once started, the idea is sure to be widely developed.

The long-distance listener, then, certainly has not been forgotten this year, whatever one's first impressions of Radiolympia might be. Genuine progress has been made in the equipment offered to him, and he can now buy at moderate prices receiving gear which will enable him to make the most of the most fascinating of hobbies.

American Television Comes into the Open

RADIO CITY'S NEW "OUTDOOR STUDIO"

(By our New York Correspondent)

AMERICAN television was considered as being "out of the laboratory" with the opening of field tests originating in the Empire State Building transmitter two years ago and the inauguration of the series of more or less private demonstrations which have been staged from time to time in the RCA headquarters for technical, educational, and other groups.

This summer a further advance has been made. Television has been brought out in the open. The throngs of out-of-town sightseers who normally dawdle along the pavements of Radio City have gathered day after day during most of July watching the operation of the NBC's camera truck. Its setting was a colourful one—on Rockefeller Plaza, between the RCA and the British Empire Buildings, overlooking the sunken garden which serves as an open-air restaurant in summer and a skating-rink in the winter months. There is abundant contrast and movement here to stimulate experimental television pick-ups: drifting groups of women in bright print dresses, rippling fountains, modern sculpture, oversied striped parasols over the restaurant dining-tables, and neat rows of trees (the latter showing lighter than the eye sees them by reason of the infra-red reactions of the iconoscope tube in the camera).

Unexpected Tragedies

Passers-by have shown an enormous interest in these, the first glimpses afforded the general public here of television cameramen at work. They asked a great many questions; some with time on their hands even co-operated with Robert E. Shelby, the engineer in charge of these outdoor pick-ups. Candid shots were made from many angles of these volunteers and a technique worked out for a sort of "Vox Pop."

interview by camera; pedestrians as actors proved unexpectedly responsive in forming themselves into deliberately casual "street groups. Out of this pleasant metropolitan scene a small spectacular tragedy flashed unrehearsed on to the television screen one day. One of the cameramen had been instructed over the telephone connecting the truck with the control-room on the fifth floor of the RCA Building to "pan right and take in the upper part of Number As he did so, a stenographer opened a window on the 11th floor of the Times Building and was seen to fall to her death in the street. At the time the circuit was open no farther than the control-room (these test pick-ups were not transmitted from the Empire State), where the gasp of the crowd along the Plaza and the horrified exclamations of the engineers on the truck were heard as the image appeared on the monitor board. Strangely, the televising of preliminaries of a second tragedy was inevitable a few days later, when a deranged youth, after holding a vast crowd in suspense for several hours, jumped from the 17th floor of a Fifth Avenue hotel immediately in range of an RCA laboratory camera situated in a building facing the hotel.

Aerial 1,300 feet above the Street

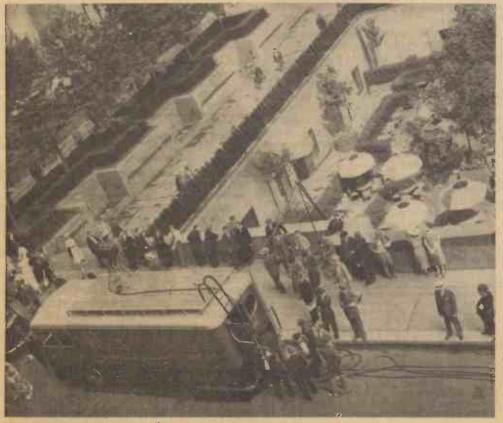
All such shots, normal or gruesome, are over for the time being. They were strictly in the nature of tests rather than programme material, and these experiments were resumed on August 23. Meanwhile the Empire State transmitter has been overhauled, its power increased, and a newly-designed aerial put in place 1,300 feet above the street. At the same time there have been going on changes in the two NBC trucks (the second is the relay transmitter), with the object of obtaining greater smoothness and effi-

ciency of operation. On the whole, the field tests, in which studio programmes were regularly scheduled every day for several weeks, and the daily televising of Rockefeller Plaza's passing scene have yielded results satisfactory to American officials. "We have learned a good deal," Mr. O. B. Hanson, NBC Chief Engineer, told me, "from working out in the street in what is really television's first out-door studio. We hope by this autumn to be able to give New Yorkers a glimpse of current events in the city as they are actually happening."

Making Haste Slowly

Further experiments have been conducted, I learned, using the relay truck in conjunction with the camera pick-up from a Westchester suburb of New York. (A coaxial cable link served to connect the truck in the Radio City tests with the control-room, and similar means will be employed to connect Radio City with Madison Square Garden for the televising of sporting events.) The signal, from some twentysix miles' distance, brought in recognisable likenesses of engineers and officials who stood in front of the camera and the rather small price tags on a wayside fruit-vendor's barrow could be clearly distinguished. The technical verdict respecting these relays was nevertheless not overenthusiastic; the pictures had not yet reached the standard of excellence which it is assumed the American public will demand when television is launched as a daily service. Just when that will be remains highly conjectural. Conservative management, anxious to safeguard an investment already amounting to ten million dollars sunk in experimental work, is proceeding with extreme caution. The public waits expectantly. Efforts to "beat the gun" on the part of certain manufacturers have caused some consternation among the main groups. Recently a New York department store, announcing "Television is here! Come in and choose your set!." offered "unofficial" receivers with a very small screen, at a price of about twenty-five pounds, "sound attachment extra." RCA, with the heaviest stake of all the concerns involved in the television lottery, has as yet no sets on

Standards constitute perhaps the most difficult element in the commercial dilemma which the promoters of television in America have to face. It is as necessary to manufacturers to have the industry "frozen" technically into position as soon as possible—although this would be fatal if done prematurely—as it is for the Federal authority, in its rôle of guardian of the public interest, to be certain that when sets are offered on a wide scale to the public they will not be quickly outmoded by the arrival of radical changes in the whole television set-up. Busy innovators are active in every branch of the new art. A distinctly American touch is to be seen in arrangements which one inventor has offered: to provide viewers in the home with the visual equivalent of the station identification and time signal characteristic of sound broadcasting, he has added to a standard set a tiny watch-like screen, on which would flash at the beginning and the close of a programme the "sign letters" of the station and a glimpse (mercifully brief) of the exact time, picked up from a master clock! The chance of any important technical advance coming along, however, is not thought sufficiently likely to warrant further delay in fixing the principal standards. A committee of manufacturers ratified a number of these, including the 441-line basis, quite recently.



NBC television van at Rockefeller Plaza: the television camera can be seen on the roof of the van.

TELEVISION NOTES AND NEWS

Viewers to "Visit" an Aerodrome

By "THE SEER"

THE first television visit to an aerodrome is genre he offered Powder and Pipeclay, dealing scheduled for the middle of October, when, with soldiers' songs through the centuries, and by courtesy of the Air Ministry, one of the mobile units will spend a day at an R.A.F. aerodrome. Viewers will be able to see the personnel at work—a privilege which is rarely extended to the public. The cameras will work at close quarters to the fighter planes, and near enough to show flying instruction and the manipulation of controls on the ground.

The ideal plan, of course, would be to take the cameras into the air to get a pilot's-eye view of the aerodrome, but at the present stage of technical development it just can't be done.

The growing television public will undoubtedly expect more outside broadcasts after dark, when fathers of families (who buy the sets) are at home to enjoy the fun. So the O.B. staff are busy planning programmes which can be introduced into the evening transmissions. The first, referred to in these columns last week, will be the Television Ball at the Pinewood Film Studio on September 23. Later it is hoped to televise boxing matches from the National Sporting Club premises at Earl's Court, and to pay visits to Harringay and Wembley for ice hockey and kindred sports.

When Stephen Thomas produced The Mizzen Cross Trees last summer he created a new art form for television—a revue of traditional songs in a dramatic setting, making use of all the technical resources of the studio. In the same

with soldiers' songs through the centuries, and Rogues' Gallery, presenting the songs of high-waymen and buccaneers. On September 7 the cream of all three programmes will be whipped up to form a fourth-Songs in Adversity, acted and sung by the same team of artists, John Goss, Elizabeth French, Joan Collier, and Taylor

And Now is the title of an unusual pictorial booklet of 32 pages which the BBC has just published. In page after page of pictures it tells the story, with a racy commentary, of all that television means to viewers to-day.

"Television is obviously impossible," runs the foreword, "but it is happening every day. Many of the photographs were taken at the cameraman's elbow. We see the Coronation Procession as viewers saw it at Hyde Park Corner; famous stage and screen personalities in the studio; television plays with the camera in action; great national and sporting events as they were televised at the moment of happening.

And Now is an interesting attempt to bring television vividly before the eyes of those thousands who, from lack of time or opportunity. are still unacquainted with the Television Service as it is run to-day. The booklet is obtainable, price 6d., from the BBC stand at Radiolympia, or direct, price 8d., post free, from BBC Publications, 35, Marylebone High Street, London, W.1. It can also be obtained at local BBC offices.

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 films intended for demonstration purposes will be shown.

SUNDAY, September 4

8.50 p.m.—News Bulletin. 9.5-10.20—"Winter Sunshine," a comedy by G. A. Thomas.

MONDAY, September 5
-" Hyacinth Halvey: " a comedy a comedy in one act by

3.0 p.m.— Hyacinin Haivey: a contedy in one Lady Gregory.
3.35—Gaumont-British News.
3.45-4.15—Northolt Pony Racing.
8.0-8.50—Promenade Concerts, 1938 (Sound only).
9.0—Film: "The Student of Prague."
10.0—Interval Music. 10.25-10.45—News Bulletin.

TUESDAY, September 6
3.0-4,15 p.m.—"The Importance of being Earnest," by
Oscar Wilde.
8.0-8.45—Promenade Concert (Sound only).
9.0—"My Cherub Family: "Louis Golding.
9.10—Cartoon Film: "Shanghaied."
9.15—"Gianni Schiechi," an opera in one act by Puccini.
10.15—Interval Music. 10.25-10.45—News Bulletin.

WEDNESDAY, September 7
3.0 p.m.—"Contrasts," with Joe Adami (Juggler), and Raphael Medina (Spanish Songs).
3.10—Gaumont-British News.
3.20-4.0—Songs in Adversity.
8.0—Promenade Concert (Sound only). 9.0—Starlight.
9.10—Cartoon Film: "Orphan's Benefit."
9.15—"Masterpieces on your Walls."
9.30—British Movietonews.
9.40—European Folk Song and Dance.
10.0—Interval Music. 10.25-10.45—News Bulletin.

THURSDAY, September 8
3.0 p.m.—Stanelli's Bachelor Party.
3.30—British Movietonews, 3.40-4.0—"Picture Page."
8.0—Promenade Concert (Sound only), 9.0—Cabaret,
9.30—Gaumont-British News, 9.40—"Picture Page."
10.0—Interval Music, 10.25-10.45—News Bulletin.

FRIDAY, September 9
3.0-4.15 p.m.—" Winter Sunshine," a comedy by G. A.

7.0-4.13 p.m.— willer Sulfshift, a Collection Thomas.

8.0—Promenade Concert (Sound only).

9.0—Speaking Personally: Raymond Gram Swing.

9.10—British Movietonews.

9.20—Songs in Adversity.

10.0—Interval Music.

10.25-10.45—News Bulletin.

SATURDAY, September 10
2.40 p.m.—Visit to the River Police Station at Wapping,
3.0-4.0—" Gianni Schicchi:" opera in one act by Puccini,
8.0—Promenade Concert (Sound only),
5.5—Cabaret. 9.35—Gaumont-British News,
9.45—" The Cab," a comedy in one act by John Taylor.
10.5—Interval Music. 10.25-10.45—News Bulletin.

LISTENERS' QUERY SERVICE

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.

Free Queries

Each query should be numbered and the questions on the coupon carefully answered. Letters must be addressed to the Editor, WORLD-RADIO, Broadcasting House, London, W.1.

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."

IDENTIFICATION COUPON (No. 499) This coupon is valid for ONE QUESTION only and should be cut out and attached to a separate sheet, upon which the following questions should be answered in the order shown. No coupon more than one month old is valid. A coupon is not required from readers living in countries outside Europe who desire identification of transmissions.

1. Time and date of reception.

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

3. Nearest known stations, above and below.4. Call or interval signal, if heard.

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.)

P.C. 72 (Gibraltar): (12) cannot trace any Italian-transmitter on the frequency stated; (13a) Moscow (U.S.S.R.) RIB, on 11.7 Mc/s; (13b) Tangiers (International Zone), CNI; (13c) FN, Amateur transmitters in French India. D.X. PHONE (West Bromwleh): (1) there is no German or Dutch station working on a channel above 49.83 m.; would appear to be seventh harmonic of Strasbourg (France) on 49.89 m.; (2) SBO, Motala (Sweden), on 49.46 m.; (3) regret, cannot trace. CURTOUS (Leeds. 8): apparently, OLR5A, Prague - Podebrady (Czechoslovakia) on 15.23 Mc/s but you may also, have heard W2XE, Wayne (N.Y.), U.S.A., on 15.27 Mc/s. PATTI BOLI (Birmingham): WHK, Cleveland (Ohio), on 215.8 m.; KMOX, St. Louis (Mo.) on 275.1 m.; WABC, New York, on 348.6 m., all in the Columbia broadcasting network. NUNKUN (Teddington): would appear to have been a relay from Berlin; the stations heard were WQV, Rocky Point (N.J.), U.S.A., and WQL, New Brunswick (N.J.), on 20.27 m. and 20.25 m. respectively. CATCH-EM (Bolsover): (1) CSW2, Lisbon (Portugal), on 27.1 m.; (2) cannot confirm but there is a Moscow station (RRRE) entitled to work on 21.84 m. and 21.77 m. NTERESTED (N.W.9): VLR, Melbourne (late Lyndhurst) (Victoria), on 9.58 Mc/s. BATHWICK (Boseombe): yes, Monte Ceneri (Switzerland), on 257.1 m. ANXIOUS ENQUIRER (St. Leonards-on-Sea): (1) CRCX, Toronto (Canada), on 49.26 m.; (2) XEWI, Mexico (ity (Mexico), on 49.88 m. AIR SICK (Langold): possibly Courtrai (Belgium), on 201.1 m. DX-ER 100 A (Woodford Wells): (1) HP5G, Panama City (11.78 Mc/s); (2) (a) OAXIA, Chiclayo (Peru), on 48.78 m.; (b) OAX4P, Huancayo (Peru), on 49.8 m.; (3) (a) XEBF, Vera Cruz, Mexico, on 49.26 m.; (b) TGXA is no longer given in official lists, but wavelength was 48.94 m.

Esperanto Transmissions

Sunday: Barcelona, 377 m. and 42 m. 00.30 a.m. Parolado. Monday: Rome (2) and (2RO) (31.13 m.) about 10 p.m. Informoj. Prague, 10.25 p.m. Kroniko pri Cehoslovakio. Paris (PTT) 11 p.m. 1-akta komedio de Labiche, "La Krimo de Strato Lourcine." Tuesday: Kaunas 9.20 p.m. Nia Anguleto—Informoj pri Litovujo. Estonian stations 10 p.m. Estona Kroniko. Rio de Janeiro (31.58 m.) 11.30 p.m., Oficialaj Informoj en la Brazila Horo. Wednesday: Mexico (50.17 m.) 2.45 a.m. Parolado kaj Sciigoj. Paris (PTT) and relays, 2 p.m. Elementa Kurso, Saturday: Rome (1) and 2RO (25.4 m.) 7 p.m. Turismaj Notoj.

"DO YOU KNOW ... ?"-24

Answers to Questions on page 5

Das Rheingold, Die Walküre, Siegfried, and Götterdämmerung (Twilight of the Gods).
 (a) Poland; (b) Hungary; (c) France; (d) Germany; (e) Spain; and (f) England.
 Richard Strauss; Salome.
 Albert Coates; Kouibyshev; Feodor Chaliapin.
 Messages sent from home in winter on Saturday night to the people of the lonely outposts in the Canadian Arctic. Canada chiefly, though the United States (Pittsburgh KDKA and its affiliated short-wave station) transmits messages, too.

(a) Edward MacHugh, greatest of America's radio Scots; (b) Donald Peers, broadcaster in Radio-Normandie programmes; (c) famous American newspaper correspondent, broadcasting weekly on world affairs from Schenectady; and (d) a group of six musicians, recently presented on the air by Rudy Vallee, who get their instruments off junk heaps.

Bound Brook W3XAL. The broadcast deals with happenings in countries below the Rio Grande,

with folk and traditional music interludes.

Behind the scenes at the BBC

BROADCASTING FROM WITHIN

By S. W. SMITHERS of the BBC

This fascinating new book will appeal to every listener. In its pages you will find intimate descriptive sketches, illustrated by portraits, of outstanding BBC personalities and the work they do, of how broadcasts are controlled, of how television is "put over," of how technical break-downs are overcome—in short, how the wheels go round at Broadcasting House.

From a bookseller, or 219 post free from

PITMAN, Parker Street, London, W.C.2.



NEW TELEVISION RECEIVERS

THERE is no doubt that during the past few months television has fired the public imagination in no uncertain manner. This is largely the result of the concerted activities of the BBC, the radio manufacturer, the retailer, and the Press. It is not surprising, therefore, to find television the keynote of Radiolympia this year, and to observe that no effort has been spared to stimulate public interest in this wonderful new development.

In the first place, the BBC, in co-operation with the R.M.A., has transplanted a television studio, complete with all the paraphernalia of transmission, from Alexandra Palace to Radiolympia, and a large proportion of the specially arranged television programmes are performed in this studio and relayed to Alexandra Palace for broadcasting, by means of the special balanced cable. Members of the public are permitted to promenade around the outside of the studio walls and are able to catch a glimpse behind the scenes of television production, through windows in the walls.

Secondly, the radio manufacturers have done their part by offering for sale to the public a wide range of television receivers, giving a commendably high standard of reproduction, and at prices which, a year ago, would have been considered unbelievably low.

Direct, or Mirror Viewing

A large number of different models are available to suit all tastes and purses, mounted in cabinets styled to harmonise with a variety of decorative and furnishing schemes. Most of the receivers, of course, employ cathode-ray tube picture reproduction, and a notable feature is that at least 75 per cent. of the new designs make use of direct viewing of the fluorescent screen, while only 25 per cent. employ mirrors.

This trend of design seems to accord with the general view that "direct" is preferable to "reflected" viewing, presumably because mirrors tend to catch and accentuate irritating reflections of any lights or windows in the room, and also because direct vision facilitates, to some extent, viewing over wider angles. No doubt this increasing tendency to use "direct" viewing has been largely influenced by the development of shorter cathode-ray tubes, which do not require inconveniently deep cabinets.

A number of manufacturers are exhibiting large-screen projection-type cathode-ray receivers, and several examples of mechanically-scanned large-screen receivers are also being successfully demonstrated. The cost of these instruments is around 150 to 200 guineas, so that their appeal is limited to people of ample means, or to those who wish to show television to a large number of viewers simultaneously.

Picture Sizes

Most manufacturers offer one or more television reproducing units giving certain more-orless standard picture sizes, and these may be obtained mounted in various cabinets, either as television receivers alone or combined with all-wave radio receivers, and in some cases with a radiogramophone as well. The prices naturally vary a good deal according to the picture size, the scope of the instrument, and the elaborateness of cabinet work, but a rough indication of prevailing prices may be gathered from the following.

The largest pictures, other than those produced by projection methods, are approximately 14 in. by 11 in., and a combined television receiver and all-wave receiver giving pictures of this size costs about 70 to 80 guineas; or, with radiogram, from 100 to 120 guineas. The next standard picture size is about 10 in.

The next standard picture size is about 10 in. by 8 in., and in this range, for a "picture and television sound only" receiver the cost varies from about 37 to 60 guineas. If an all-wave radio receiver is included the prices range from about 47 to 80 guineas, and, with a radiogram as well, from about 70 to 100 guineas.

After these come receivers giving pictures approximately 8 in. by 6½ in., which, for "picture and television sound only" are obtainable at all prices between 28 and 45 guineas. Combined with all-wave radio the prices vary between about 29 and 50 guineas, or with a gramophone, the cost is about 65 guineas.

Next, there is a range of receivers giving picture sizes varying between 6½ in. by 5 in. and 5 in. by 4 in., which for "picture and television sound only" are offered at remarkably low prices ranging from 23 to 35 guineas, or, with an all-wave radio receiver, 45 guineas. In addition, a few makers are offering vision receivers giving a picture about 5 in. by 4 in., without

any sound reproducer, but containing a frequency-changer so designed that the ultra-short-wave television sound is translated to a medium wave, and may be reproduced through the medium of an ordinary broadcast receiver.

One interesting feature of the sets exhibited is that, almost without exception, the pictures are of a rich shade of black and white, with excellent tonal gradation and ample brightness to render them acceptable in a partially lighted room. Some receivers appear to give rather better definition than others, but in no case is a really bad reproduction to be seen, and the quality of definition in most cases is exceptionally good.

Despite the fact that some of the cheaper models produce pictures a good deal smaller than those to which the average person has become accustomed, these little pictures give such a charming impression of crisp definition and have an indefinable smooth cameo-like quality, that they possess a fascination all their own, and clearly have a remarkable potential entertainment value.

In consequence it may fairly safely be forecast that the cult of the small picture will become extremely popular among those whose means do not admit of the acquisition of a larger receiver, and there is no reason why the results which they obtain should not yield a full measure of satisfaction, particularly where the viewers do not exceed two or three in number.

Simplicity of Operation

Another feature of the sets of to-day, which will no doubt be much appreciated by the public, lies in the general simplification of the television controls. In the majority of receivers, only picture brightness and contrast controls appear on the front panel, so that manipulation is an operation of the utmost simplicity. Such things as synchronising, focus, and shift controls, are situated at the side or rear, and are of the preset variety, the maker's claim that these controls do not require adjustment for months on end being amply justified by experience. quently no one, however ignorant of matters technical, need have the slightest apprehension as to their ability to operate a television receiver to the best possible advantage.

Apart from the excellence of the sets they have produced, the manufacturers have been extremely wise in the manner in which they have presented them to the public. Gone are the rather stuffy booths where the people were

herded into chairs to obtain a distant and unsatisfying view of a small picture the very nature of which dictates that it should be viewed at a distance of comparatively few feet. Television is primarily a home entertainment, and should ideally be viewed at the appropriate distance which depends on the picture size—and under conditions which prevail in the home.

Such viewing conditions are clearly most difficult to obtain in an exhibition where a great number of people wish to view the sets, but at Radiolympia the manufacturers have achieved a very reasonable approximation to this condition by causing members of the public to approach the receivers in more-or-less single file in a narrow passage, so that everyone is at about the optimum distance from the picture. As a result, the public is being brought to realise that a comparatively small picture can be quite satisfying if viewed from the proper distance and under suitable conditions.

In conclusion, the outstanding impression to be gained by inspection of the television sets at Radiolympia is that television has made immense strides and to-day offers first-class entertainment in the home, at a price which is now within the reach of a great number of people. The sets which are offered are splendid value for the money which is asked for them, and are backed up with their makers' twelve-months guarantees.

It is, moreover, clear that, in placing television sets on the market at to-day's prices the manufacturers have embarked upon a very courageous policy, and it is evident that no important change of technical policy or further price reductions of any magnitude can be expected for some considerable time to come. Anyone who is dissatisfied with the variety and value of sets now on exhibition at Radiolympia must certainly be extremely difficult to please, and it now only remains for the public to give its support to television and so consolidate the foundation of a new and important industry.

BROADCAST RECEIVERS

FOR the last few years it has not been easy for the average visitor to the Radio Exhibition at Olympia to find any appreciable change in the design of broadcast receivers. The general outward appearance seemed very much the same each year, and as for the inside, well, it required more than a little technical knowledge to enable a visitor to tell whether any important changes in design had taken place there.

This year it is obvious to the most casual visitor that there has been a change in design since last year. Although television is undoubtedly the main attraction at Radiolympia this year, one cannot fail to notice that practically every manufacturer of sound broadcast receivers is exhibiting sets with "push-button tuning." This method of tuning, whereby the



pressing of a button automatically tunes the receiver to the station whose name is indicated on a label above or below the button, is by no means new. Receivers with this facility have been on show for many years, but whereas one had to look for them carefully in previous years, as they appeared on only one or two stands, it is impossible to miss them this year.

The methods employed for obtaining easy tuning vary somewhat, but they all have in view the object of making the handling of a wireless set as easy as possible. The old-time "knob twiddler" may be moan this pandering to laziness, but to the listener who regards a wireless set as a means to an end and not an end in itself, any developments which make for simple operation will no doubt be very welcome.

It is difficult to see how sets can be made much simpler in this respect than they are this year. These results can be achieved only by greater complexity in the mechanical and electrical design of the interior of the receiver, and extremely careful thought and attention have to be given by the manufacturers to these points if increased cost and maintenance troubles are to be avoided. It is only by mass production methods that the remarkable results which have now been achieved have been possible at the extremely low prices which are in force to-day; for example, excellent all-wave receivers can be bought for 10 guineas and even less.

The internal arrangements employed for pushbutton tuning are of two main types. In one system each push-button is made to rotate the



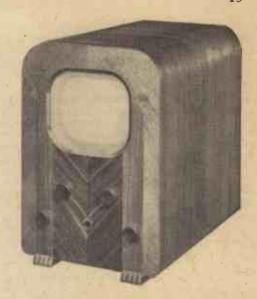
Three new moderately-priced television sets. Lower left—Cossor (23 gns.). Centre—Marconiphone (29 gns.). Upper right—G.E.C. (30 gns.).

normal gang tuning condenser to the required position for receiving a particular station. In most receivers employing this system a mechanical arrangement of levers and cams operated by the button is used, but in the more expensive sets a small electric motor and some form of selector system is used.

The second system utilises the push-buttons to operate switches which are connected to preset condensers or inductances arranged to tune the set to the selected wavelength. In one or two cases the push-buttons are replaced by a dial control similar to that used on automatic telephones.

Provision is usually made for selecting at least five stations and in some cases as many as ten. Usually the purchaser has the option of deciding which stations two or three of the buttons are to select, the remainder being adjusted and fixed by the manufacturer. It is also customary for provision to be made for ordinary manual control so that any desired station can be tuned-in in the normal way. Some receivers also employ automatic frequency control which "pulls" the circuits into exact tune with the carrier being received even if the tuning controls have not been accurately adjusted.

It has been the practice for some years to provide large illuminated scales marked with the names of stations showing to which station the set is tuned and this very useful practice has been continued.



Control knobs are still small in size and number, one knob being made to perform several functions where possible. A tone control is a common fitting, but the provision of variable selectivity does not appear to have made much progress and is chiefly confined to the more expensive sets. Automatic volume control is universal on all but the cheapest receivers. The superheterodyne type of receiver still

The superheterodyne type of receiver still maintains its supremacy, even in the cheaper models, but one or two examples of straight receivers are shown.

There is plenty of choice for visitors looking for either a battery-operated receiver or one for use on A.C. mains, and although the listener with D.C. mains has not been forgotten he is not catered for to the same extent as listeners with A.C. mains.

Visitors to the Show this year have an opportunity of judging the performance of the various receivers on the stands, which, for the first time, are being fed with radio-frequency signals instead of audio-frequency signals.

These demonstrations should not be regarded as taking the place of the demonstration which a prospective purchaser should always have in his own home before making a final choice, but they give a valuable indication of a receiver's performance and show how much performances in general have improved during the last few years.

Portable receivers have changed considerably since they were first introduced many years ago. The old suitcase type is not quite dead, but externally it has moved with the times just as suitcases themselves have. The tendency for portable sets to follow similar lines to non-portable sets, which has been evident for some years, still continues and there are many examples of handsome sets which can be moved from room to room and not look out of place in any one of them. Their performance is not seriously below that of most non-portable sets and the quality that one normally associated with portable sets not very many years ago is a thing of the past. Quite a number of midget receivers are exhibited. One of these, which is claimed to be the world's smallest all-wave set, is only 12 in. by 8 in. by 5½ in. and requires no aerial or earth. It tunes from 16-2,000 metres and works off either A.C. or D.C. mains. The price is £6 19s. 6d.

That the quality of reproduction in most types of sets has improved is beyond question. This has been made possible not only by valve improvements but also by improved circuit technique. The use of negative feedback, or reversed reaction, has been a long time in coming, but its advantages have now been appreciated and are being utilised. It enables greater outputs to be obtained with reduced harmonic distortion and can also be used to improve the

frequency characteristic of a receiver. It is one of the many refinements which manufacturers have embodied in their receivers without any outward sign that they have done so—except in the resultant overall improved performance—and without noticeable increase in price.

The thrill which listeners in the early days of broadcasting obtained merely by succeeding in hearing signals from a distant station, even if their programme value was nil, is not experienced by the listener to whom programme value is everything, and who is satisfied to be able to receive the programme he wants by simply pressing a button; manufacturers, however, are catering more and more for the listener who wants both programme value and the satisfaction of hearing a station at the other side of the world. More receivers than ever are on view this year with provision for the reception of short waves as well as medium and long waves.

These all-wave receivers enable many distant short-wave stations to be tuned in almost as easily as medium and long-wave stations and provide the listener with the thrills of long-distance listening for its own sake as well as the excellent programmes which can be regularly received from many distant short-wave stations. This year's Show indicates that it will not be very long before the receiver which cannot receive short waves will be in the minority.

Although car radio has not yet become as popular in this country as it has in America, it is evident that manufacturers are alive to the possibilities of this form of radio entertainment. An excellent choice of receivers for this purpose is available and visitors to Olympia can see for themselves how easily the equipment can be installed in a motor car. The increasing number of vehicles equipped with car radio which one sees on the roads shows that more and more people are realising its appeal.

SHORT-WAVE EQUIPMENT

NE of the features of Radiolympia this year is the appearance of the British "communications type" receiver, of which some halfadozen makes are on view. This type of receiver with its wide frequency coverage, good performance on the high frequencies, and refinements of control, is of particular interest to the more serious short-wave listener. On one stand there are some good examples of this type with tuning ranges of from 9½-190 m. and very satisfactory tuning dials—both from the point of view of operation and ease of logging stations.

Turning to the standard all-wave receiver, it was of interest to note that every manufacturer is exhibiting at least one range of models which tune up to 18 Mc/s and include the 16-metre band. This is a great advance on last year when so many models tuned only to 15 Mc/s and consequently did not allow reception of the afternoon and early evening programmes from W3XAL, Bound Brook, 17.78 Mc/s.

The more ambitious receivers however, included the 21 Mc/s band and many of them tuned up to 26 Mc/s. Most of these receivers cover these short-wave ranges in two bands—i.e., 26-10 Mc/s, 12-4 Mc/s, and consequently their performance is generally likely to be better than the single-band receiver, owing to more favourable L-C ratios in the tuning circuits. Many of the more expensive receivers also include a fifth band of 50-30 Mc/s, approximately, which allows reception of the sound transmissions from Alexandra Palace.

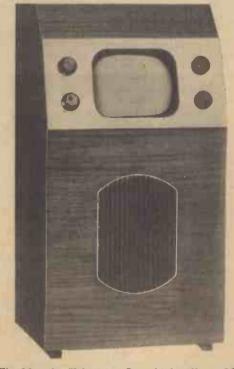
Electronic tuning indicators have now come into general use and these, in conjunction with larger and clearer dials and good slow-motion drives, considerably improve the handling of the receivers.

Most of the receivers so far mentioned have been mains-driven and although the user of a battery-driven receiver has not such a wide choice of sets, there are some good examples of this type to be seen. That fayourite of the old time "fan," the 0-v-1—with modern improvements—is shown; the price, of course, is very different from that of the all-wave receiver.

different from that of the all-wave receiver.

In the "all-wave" class practically every manufacturer has at least one battery-driven model, usually with a short-wave range of 18-6 Mc/s. There are a few examples which can compete on nearly equal terms with the mains-driven receiver but, generally speaking, export types are not displayed at Olympia, it being necessary to enquire for the Export Manager at the individual stands if details of these receivers are required.

It is very pleasing indeed to find that the British manufacturers have broken away from the "4-valve complex" and are now producing multi-valve receivers. Ten-valve receivers are quite usual this year and the resulting "one-valve-one-job" technique cannot but give improved performance. This is more noticeable perhaps on the short-wave side. A great deal has been said in praise of the short wave performance of the large multi-valve U.S.A.



The Murphy Television Set which sells at £30.

receivers, but one feels that the large British receivers are equal or superior in performance, particularly on the highest frequencies.

There is one all-wave receiver at the Show of very interesting design. When the wave-change switch of this receiver is in the "short waves" position, against each of the 7 push buttons appears one of 5 usual short-wave broadcast bands (16-50 m.) and the 21 m. and 42 m. amateur bands. When any push button is pressed the set is automatically tuned to the centre of that band. Tuning of the individual stations in that band is then carried out in the usual way with the main tuning control knob which, on the short-wave bands, controls a band-spread condenser, a very ingenious method which overcomes the main troubles of automatic tuning on the higher frequencies. This receiver works as a double superhet on short waves with a first intermediate frequency of 3,100 kc/s and a second I.F. of 465 kc/s. This receiver does not include the 21 Mc/s band, although this is included in a more expensive model.

The short-wave listener is probably more aware of the necessity for a good outside aerial than his medium-wave contemporaries and at one or two stands he will find the latest developments in this sphere. Noise-reducing aerials of various types are, of course, shown by most manufacturers to-day, but the many methods of fitting them, and also the fittings themselves, are on view on these stands. Anyone who has attempted to fix poles to chimney stacks, and experienced all the other troubles attendant upon aerial erection, will appreciate the thoroughness with which these firms have tackled this problem.

A further interesting aerial development is to be seen on one of the stands. Although this is rather outside the scope of the ordinary listener it will have many applications—for connecting remote aerials to receivers (as in relaying stations), and for feeding a large number of receivers from a common aerial. It is a remote aerial amplifier, which accepts the signals from an all-wave aerial and, after amplification, will pass them into any low-impedance feeder line. The wave-range covered is 12-60 m. and 200-2,000 m. and the gain is some 20 db. Lengths of feeder up to half a mile can be used without loss.

The requirements of the amateur constructor have not been entirely forgotten and there are several stands on which suitable components are displayed, although the number appears to be diminishing each year.

RADIOGRAMOPHONES

THERE does not appear to be any radical change in the general design of radiogramophones at Olympia this year. Any modifications which have been made are of a detailed nature, such as improvements in pick-up performance, a greater degree of speed constancy of gramophone motors, and so on. The use of automatic record changers has become more popular, showing that these devices are now thoroughly reliable and easy to operate. A casual estimate indicated that radio-gramophones without automatic record changers were in the minority, and it was clear that the increased demand for the automatic changer has enabled the cost to be reduced, thereby enabling manufacturers to fit these without increasing greatly the total cost of the instrument.

Care must be exercised in the choice of needles for the pick-up when an automatic record changer is used, a semi-permanent type of needle being highly desirable. Too little attention is often given to this matter with a consequent loss of quality of reproduction accompanied by excessive record wear.

The number of different makes of pick-up seems to be decreasing and only one or two outstandingly new designs were noticed. Manufacturers have made a number of improvements to existing models, however, particularly with a view to decreasing record wear. The design of a pick-up which produces but little record wear, gives a really good frequency response characteristic, and introduces little distortion, involves the use of very light moving parts. Although such an instrument may be a thoroughly good mechanical job it is nevertheless more fragile than the comparatively robust types of pick-up produced some years ago.

One new type observed on one of the stands is of particular interest. Quite small in size, and correctly counterbalanced, it bears very lightly on the records and this, in conjunction with other points in the design, reduces record wear very considerably. The frequency characteristic is sensibly flat over the required frequency range, the resonance occurring above the required range—i.e., at about 10,000 cycles per second. Special needles are used in this pick-up—smaller than the standard size and of the semi-permanent

The absence of pick-ups using sapphires instead of steel needles was noted, there being a tendency for development in other countries to proceed along these lines. One of the advantages resulting from the use of a sapphire is that the tedious process of changing needles is avoided, one sapphire being capable of reproducing some thousands of records. A further advantage which helps in the design is that since it is unnecessary to change the sapphire, this can be mounted directly on the end of the armature, the total mass of the moving parts thus being reduced to a very low value.

One complete home-recording equipment—consisting of an all-wave receiver, an automatic record changer and pick-up, and a recording machine—was examined in considerable detail. The recording equipment consists of a turntable driven by a synchronous motor of adequate power, an arm on which is mounted the cutter



A very compact record-player (H.M.V.).

head carrying the sapphire or steel cutter, and a traversing mechanism. The cutter head is connected to the amplifier which is normally used to operate the loudspeaker associated with the radio-gramophone. The operation of the machine is simple and a little experience should enable satisfactory records to be made.

CATHODE-RAY TUBES AND VALVES

THE visitor to Radiolympia this year will have noticed two outstanding changes—push-button tuning, and television receivers at moderate prices. The first innovation is accomplished in several ways, none of which call for anything special or new in the way of valves. The popularising of television receivers, on the other hand, has been accomplished largely owing to more efficient valves and cheaper cathode-ray tubes.

Cathode-ray tubes are now cheaper than they have ever been and quite reasonably long lives are obtained. The less expensive sets have small tubes, mainly, it is believed, on account of cheaper replacement when this becomes necessary. It may be argued that small tubes are not the best medium for television and large tubes are desirable. Since it costs little more to fit a large tube as compared with a small tube, it is obviously all a matter of prime cost of the tube. Manufacturers must therefore concentrate on the production of tubes having large screens and costing little money. Considerable progress has, in fact, been made in this direction, as a tour of the stands will show; 16 in. and even 20 in. tubes are to be seen. On the Phillips stand, a practical demonstration of television on a very large tube is given.

On the Ediswan stand the complete range of Mazda valves is shown. All the new types have the Mazda Octal base, and considerable advantages are claimed for this base in that it enables a reduction in size, and proper spacing of the leads in the base and pinch, so that capacities are much reduced, which is a very important

point for television work. A new range of battery valves with directly-heated two-volt filaments has been introduced and consists of a triode-pentode frequency-changer, a triode and a double-diode triode, a variable-mu H.F. pentode, and an output pentode. Filament current is very low, being 200 milliamperes for the triode-pentode, 150 milliamperes for the output pentode, and only 50 milliamperes for the other types. These very low currents should result in long life from batteries.

WO'RLD-RADIO

The Marconi-Osram stands show the first battery two-volt triode hexode—claimed to have a conversion conductance of 250 microamperes per volt—and a new range of midget valves for deaf-aids and similar equipment. Additions have been made to the "International range" evolved from the American octal base valves and introduced last year. The KTZ.41, a four-volt indirectly-heated valve, is not new, but still remains one of the most interesting valves, having a mutual conductance of 12 mA/V. Other new valves in the four-volt A.C. range are to be seen.

Amateur transmitting enthusiasts will be interested in new small transmitting valves of moderate cost and suitable for operation on short-wave amateur bands; a complete range of small transmitting valves is displayed on the Osram stand. The KT.8 is a tetrode capable of giving an output of 25 watts with 64 per cent. efficiency at 60 Mc/s (5 metres) and the DET.14 is a triode capable of considerable output even on as high a frequency as 120 Mc/s (2.5 metres).

The Mullard stand shows a very complete range of valves and small-power transmitting valves, cathode-ray tubes, photo-electric cells, and many other thermionic devices. The "E" type series of valves introduced last year is continued, and many important additions have been made to this range. Like the Osram International range, the Mullard "E" type operate with heaters requiring a 6.3 volt supply. These "E" type, however, are fitted with a side-contact base, now popular on the Continent.

One of the most interesting exhibits on the Mullard stand is a new secondary-emission valve, the EE50, having a conductance of 14 mA/V. It is claimed that this type of valve has advantages when used with low-impedance circuits and is particularly useful as an I.F. amplifier in television receivers. The construction is original in that it is composed entirely of glass and the normal bakelite base is replaced by a glass foot through which the electrodes are led out. A locating key simplifies insertion of the valve into the socket, on the same principle as the octal type of base.

It is obvious that valve manufacturers are well aware of the requirements for television and modern types of receivers, and are to be congratulated on their efforts in this direction in the past year. One thing will, however, be obvious; namely, that there is a multiplicity of types of base available, and the number increases year by year. Many of these bases have points in their favour, but one cannot help feeling that it would be to the advantage of the radio industry as a whole if one type of base was selected and standardised for the British market.

COMPONENTS AND ACCESSORIES

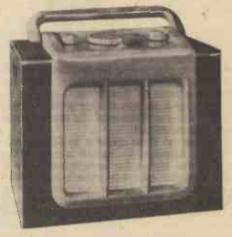
FOR some years now the space devoted to components at Olympia has been very small compared with that devoted to complete receivers. This year's show follows the same lines. Nevertheless, there are several stands which contain exhibits of considerable interest to the visitor who likes to build his own receivers or desires to carry out modifications to a receiver he already possesses.

In addition to the usual exhibits of normal components such as condensers, resistances, tuning coils, etc., components to enable the latest developments in receiver design to be incorporated in receivers by the home-constructor are on view. There are several examples of pushbutton units which can be used to build a receiver with the most modern type of tuning, and there are also examples of remote control units both for tuning the receiver to one of several pre-selected wavelengths or for simply switching on the receiver from a distance.

Meters and testing equipment of various kinds are essential to the constructor and the service man. This year there is a bigger range than ever on view. There are several excellent small multi-range meters for measuring voltage, current, and resistance, and in at least one of the larger examples, capacity can be measured as well.

There are also several inexpensive instruments for more accurate measurement of wider ranges of capacity and for testing valves, as well as simple attachments to multi-range meters to enable all types of valves to be tested. One entirely new instrument is a high-resistance D.C. meter for direct measurement of high-tension and grid-bias voltages from 2½ volts to 1,000 volts, its resistance being 20,000 ohms per volt. It also measures current from 0 to 250 micro-amperes.

The measurement of the performance of a receiver and the carrying out of adjustments are a simple matter if one of the many oscillator and oscillograph units on show is available. instruments are a very interesting feature of the Exhibition. There are numerous examples of small portable radio-frequency oscillators capable of being modulated externally or internally, and small compact oscillographs for use with the oscillators to measure the output of the receiver. Anyone interested in the performance and adjustment of receivers or experimental transmitters will find these exhibits of particular interest. Instruments for measuring noise and detecting electrical interference are also shown.



A modern portable set (Ekco).

There are, of course, numerous self-contained loudspeakers of the now universal moving-coil type but a new exhibit is a pair of high-fidelity moving-coil headphones. There has been a demand for really high-quality headphones for some time but the price has hitherto been prohibitive. Now these phones are on the market at the reasonable price of four guineas for the single earpiece or £9 for the double set with adjustable headband. It is claimed that they have a uniform response for all practical purposes from 50 to \$,000 cycles per second.

Listeners who are troubled with electrical interference will find numerous interference suppressors on show and being demonstrated, and there are also various types of aerials and connecting leads designed to reduce electrical "noise"

BBC ENGINEERING SERIES

The BBC Sound-Recording Service

By A. E. BARRETT, M.A., A.M.I.E.E., Research Department, BBC

The first of a series of articles describing the three systems of soundrecording used in the BBC

Some years ago, when broadcasting was in recorded photographically. The record is perits infancy, the now familiar gramophone manent, and each spool of film has a playing record was the only source of recorded speech and music. Since that time, rapid strides have been made in the development of sound-recording systems, which, in conjunction with new ideas of presentation, enable types of programme to be produced which were hitherto impossible.

A brief survey of the events which have led to the adoption of three different systems of recording by the BBC will form an appropriate introduction to the technical details of each

system.

As early as the year 1925, the BBC investigated a method of magnetic recording on steel wire, but the quality was not good enough. About the year 1930, a machine known as the "Blattnerphone" became available in this country for recording on steel tape. Tests on one of the first machines indicated that a great deal of development and improvement was still necessary before this system would attain a standard of recording suitable for broadcasting purposes. It did, however, enable the recording to be heard during the recording process, and the steel tape could be "cleaned" and used over and over again. Development work was carried out on this system, which is now used to a great extent; particularly in connexion with the Empire service. It is not convenient, however, when a large number of copies of a recording are required, and attention was given to direct recording on discs.

This method employs a disc of suitable material to form a base, which is coated with a layer of cellulose, gelatine, or other similar substance to form the recording medium. The discs can be reproduced immediately after recording and do not require any complicated treatment. The wear is very slight, provided suitable reproducing equipment is used, it being possible to play a disc 50 or 100 times without noticeable deterioration of quality. Alternatively, copies—known as "pressings"—can be made from it by a process similar to that employed during the manufacture of the standard type of

gramophone record.

Neither of these systems is ideally suitable when a high-quality record is required of a programme lasting for some considerable time. The magnetic system provides a permanent and long-playing record, but the tape used is expensive and bulky and is therefore not an economic proposition. The direct-recording disc method is relatively cheap, but the playing-time of each disc is comparatively short—about 4½ minutes for a 12 in. disc. The reproduction of an hour's programme thus involves linking up approximately 15 records, and although this presents no great difficulty, as will be described later, it is nevertheless an undesirable complica-Furthermore, since wear, although slight, does take place during reproduction, a truly permanent record is not obtained. equivalent of this is procured by having a number of pressings from the original disc the cost becomes considerable.

The BBC is now using a third system—the Philips-Miller—developed by N. V. Philips' Gloeilampenfabrieken, Eindhoven, Holland. The recording medium is an opaque layer on a film base, which is cut by a sapphire in such a way that a variable area track is produced. This is reproduced optically in a similar way to a standard film track, on which the sound is

manent, and each spool of film has a playing time of fifteen minutes.

PROGRAMME REQUIREMENTS

The three systems outlined above form the basis upon which the present recording service is built. Any one of the systems above is inadequate to meet the demands of present-day programme presentation and technique, but by using each of the three systems for the type of work for which it is best suited it is possible to fulfil the majority of technical and programme require-

The programme requirements are many and In addition to the recording of a straightforward programme, it must be possible to make a record of a programme lasting for some hours, take extracts from it, mix, fade, and superimpose extracts from other recordings and produce what is termed a composite record. This may be required in a permanent or semipermanent form, and to consist of one or a number of copies.

When discussing the relative merits of the various systems in their relation to programme requirements, it will be convenient to divide the types of recordings into two groups-permanent and non-permanent.

Permanent recordings consist chiefly of items of historic interest, such as national ceremonies and speeches, effects records used to provide backgrounds in the production of plays, feature programmes, and so on.

The non-permanent group includes recordings of rehearsals, and of home programmes required for subsequent transmission on the short-wave This may involve four or five reproductions to cover the various zones, after which the record is of no further interest and may be destroyed.

TECHNICAL REQUIREMENTS

Let us consider now the technical requirements of recording systems in general. These concern-

All factors involved in the production of what is often termed "good quality."

The possibility of the duplication of the original record without noticeable deterioration of quality and without resorting to re-recording.

- (3) The time which must elapse before the first reproduction can be obtained.
- (4) The reliability of the system as a whole.
 (5) The reliance which can be placed on the success of any individual recording.
- (6) The ease of operation of the system.
 (7) The permanence of quality of a record
 (a) during storage and (b) after repeated reproduction.
- The suitability of the records for storing from the point of view of weight, size, etc.
- It is proposed to describe now, in greater detail, the three systems used by the BBC and then discuss their relative merits in relation to the programme and technical requirements.

(1) Magnetic Recording

The process of magnetic recording was introduced by Poulsen round about the year 1900 under the name "Telegraphone," and was used in conjunction with his arc system of radiotelegraphy. Telegraph signals were transmitted at high hand-speed and were recorded at the receiving station on a steel wire which driven at a higher velocity when recording than during the subsequent reproducing process. Thus the signals could be transcribed by the receiving operator at a convenient speed. apparatus used at that time was unsuitable for the recording of music, being somewhat crude when compared with present-day equipment.

MARCONI-STILLE SYSTEM*

About 1924 a German engineer, Dr. Stille, began to work on the subject, and made a careful study of both the mechanical and electromagnetic problems involved. He introduced the use of steel tape instead of wire, which overcame certain difficulties, and developed an electromagnetic system which resulted in a reduction of waveform distortion. Development work on magnetic recording in this country dates from the year 1930 and has continued from that time until the present day.

FUNDAMENTAL PROCESSES

The process of magnetic recording depends fundamentally upon two properties of steel: remanence and coercivity. It is by virtue of the property of coercivity that neighbouring elements in a length of steel can be magnetised, to a great extent, independently.

Magnetic recording in its simplest form can be carried out by passing a length of steel tape or wire at constant velocity through an electromagnetic device (a recording head) which will produce variations in the distribution of remanent flux along its length.

* Extract from a joint paper by the BBC and Marconi's Wireless Telegraph Co., Ltd., presented before the Institution of Electrical Engineers and reproduced by courtesy of the Council. (I.E.E. Journal, March, 1938.)

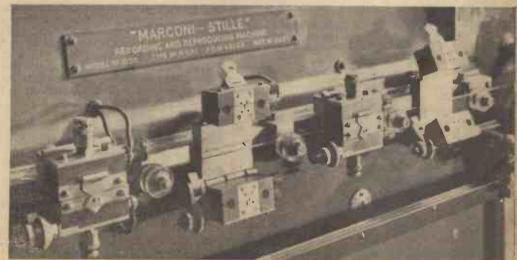


Fig. 1—Steel tape recording machine, showing four "heads."

Reproduction can be effected by passing the magnetised tape at an identical velocity through a device (a reproducing head) which is sensitive to changes of the flux in the tape. The spatial variations of flux will then be transformed into alternations of e.m.f. with respect to time. In the ideal case these correspond to the original alternations applied to the recording head.

It is necessary that any previous variations in the flux distribution in the tape should be removed before recording. This can be done by passing the tape through a "wiping head," which magnetises the tape to saturation.

The essentials of the system are thus: -

(1) A length of steel tape driven at constant velocity.

(2) A wiping head.(3) A recording head.(4) A reproducing head.

In the simplest case the heads might take the form of coils wound round the tape, but if consideration is given to the wide field distribution associated with such coils it is clear that it would be impossible to obtain satisfactory results with practicable tape velocities, except at very low frequencies. It is therefore necessary to introduce a medium of high permeability into the system in order to concentrate the field.

the system in order to concentrate the field.

The "heads" designed to perform these various functions are similar in appearance and construction; they are shown in the photograph, Fig. 1. Each head consists of two similar blocks of insulating material held together by a hinge at the back. When closed, a slot is formed for the tape to pass through. In each half a strip of magnetic alloy known as a "pole-piece" is placed, making mechanical contact is placed, making mechanical contact with the tape when the head is closed. pole-pieces are at right angles to the plane of the tape, and are surrounded by coils through which they are free to slide, the pressure of the pole-pieces on the tape being adjusted by spring-loaded plungers. One half of the head can be moved in relation to the other, in the direction of the movement of the tape, so that a variable longitudinal gap is formed between the two pole-pieces. The wiping, recording and reproducing heads used have different types of coils and pole-pieces, but are in other respects identical.

The tape may be magnetised longitudinally, or transversely through its width or through its thickness, or in any combination of these directions. It is generally accepted that transverse magnetisation of the tape through its width gives inferior results. This article is concerned essentially with longitudinal magnetisation, though it is inevitable that there will also be a transverse component through the thickness of

the tape.

It is convenient in the first place to consider the various processes in a simplified form. Let it be assumed that the whole width of the tape is used, and that at any point in its length the flux distribution is substantially uniform over the cross-section.

The wiping head carries a direct current adequate to saturate the tape completely, so that it leaves the head fully magnetised—i.e. with the maximum remanent induction $(B_r \text{ max})$. in a longitudinal direction.

RECORDING PROCESS

The object of the recording head is to produce variations in the flux in the tape of the largest amplitude consistent with linearity. It will be shown that the alternating current representing the programme to be recorded must be superimposed on a direct current, the purpose of which is to bring the tape to a suitable magnetic state. It is also necessary for the net current in the head to produce a field that is always opposed in direction to that of the wiping head, otherwise partial rectification may occur. For this reason the direct current in the recording

head is usually referred to as the demagnetising current.

Each elementary length of tape passing through the head will be demagnetised to an extent which is largely dependent upon the net value of the alternating and the steady components of the field acting upon it, and will leave the head with a corresponding value of remanent induction (B_p) . If the recording current is sinusoidal, of frequency f cycles per sec., and the tape speed is u, variations in the flux in the tape will be produced of wavelength given by $\lambda = \frac{u}{f}$

The process may be followed by referring to a "B-H" curve for the tape (Fig. 2). An elementary length of tape enters the wiping head in some unknown condition, and is then brought to saturation (point 1). It leaves the wiping head fully magnetised (point 2) and is then subjected to the recording field. If, at this moment, the sinusoidal A.C. component is zero, the effect of the D.C. component is to reduce the magnetisation to a state corresponding to point 3, and on leaving the head the remanent magnetisation is represented by point 3a. The effect of the A.C. component is to increase and decrease the effective value of the demagnetising current. If the A.C. component is at either of its peak values the tape is demagnetised to a degree represented by points 4 or 5, and leaves the head in a state corresponding to points 4a or 5a. Point 3 may be called the working point, and its position is determined by the state of the tape as it enters the recording head, and by the value of the D.C. component of the demagnetising current.

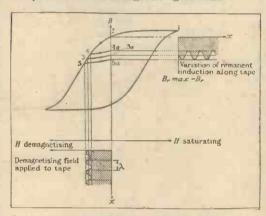


Fig. 2—Simplified recording process.

It is important to realise that the whole of the tape is not subjected to an alternating cycle, but that each elementary length of tape is demagnetised separately to a degree depending upon the net demagnetising current, so that the tape leaves the head with a value of B_r (the remanent induction) which varies sinusoidally along its length, provided that there is a linear relation between the demagnetising current and B_r . Referring again to Fig. 2 this implies that, in this simplified consideration, variations in induction represented by points 4a, 3a, and 5a (rather than 4, 3, and 5) should be proportional to the corresponding values of the demagnetising current.

Now in order that points 4, 3, and 5 should have a linear relationship to the demagnetising current through as wide a range as possible, the largest possible hysteresis loop must be used. In other words, the tape should enter the recording head fully magnetised. In practice, it appears that this condition also fulfils the requirement that the range through which the remanent magnetisation is linear with the demagnetising current should be a maximum. The optimum value of the D.C. component of the demagnetising current to give the maximum variation of remanent flux with minimum distortion can be found empirically.

Let it be assumed that the variation of longitudinal flux in the tape after it has left the

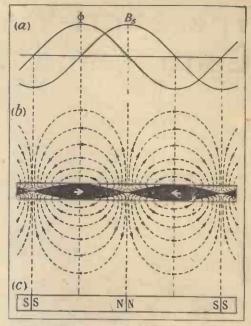


Fig. 3—Flux distribution for recorded tape.

recording head is sinusoidally distributed along its length. Any variation in the flux in the tape implies that a corresponding number of lines of magnetic induction enter or leave the tape. These lines may be termed the external flux. It follows that the surface density (B_s) of external flux at any point in the length of the tape is proportional to the rate of change of the flux along the tape at that point. This surface flux density is independent of the mean state of magnetisation of the tape, which is the datum about which variations take place, and which is determined by the D.C. component of the recording field. There is one value of this component for which variations will occur about the state of zero longitudinal magnetisation as a datum, but in practice a somewhat lower value is used, so that the direction of magnetisation in the mean state is the same as that of the fully-magnetised tape.

In this consideration it may be assumed that the value of this datum has no effect upon the external flux distribution, and it is taken as being zero. A diagrammatic representation of the longitudinal and external flux is shown in Fig. 3 (b). The value of the longitudinal induction at any point is given by the width of the dark area at that point, whilst its direction is given by the white arrow in the centre. If φ represents the longitudinal flux in the tape in any section and Φ is the peak value of this, then $\varphi = \Phi \sin 2\pi x/\lambda$, where x represents distance along the tape and the mean surface flux density B_s is proportional to $\delta \alpha/\delta x$, which is given by

$$\frac{\delta \emptyset}{\delta x} = \frac{2\pi}{\lambda} \Phi \cos \frac{2\pi x}{\lambda}$$

The distribution of external flux is thus in phase quadrature with the longitudinal flux (Fig. 3 (a)) and its maximum values are reached where the rate of change of longitudinal flux is highest, though the flux itself is at its datum value. At these points poles will, in effect, be formed on the surface of the tape.

From the above expression it will be seen that, for a given value of Φ , the strength of these surface poles is inversely proportional to the wavelength. Since the tape moves with constant velocity u=x/t the rate of change of the flux along the tape can be expressed as a time rate of change of flux passing a given point. Thus

$$B_s \propto \frac{\omega}{u} \Phi \cos \omega t$$
, where $\omega = 2\pi f$

In an ideal case, the external flux passing any given point will vary sinusoidally with time, and the problem now arises of transforming these variations of flux back into variations of e.m.f.

(To be continued next week)

The Short-Wave Stations of Central and South America

By J. GODCHAUX ABRAHAMS

1	Ву Ј.	GOI					
			n page 1	3 of last week's issue)			
DUTCH	GŲIA	NA		Mexi	co (contd.)	
		Mala	1-307		m.	M cs.	kW.
PZH, Paramaribo	m. 42.08	Mc/s.	kW.	XEWW, Mexico City	19.79	15.16	IO
(Experimental only)	42.00	7.000		Radio Nacional	31.58	9.5	10
PZIAA, Paramaribo	16.95	17.699	_	Mexicana	49.34	6.08	10
				XEXA, Mexico City	25.25	6.133	0.1
	AITI			XEXR, Mexico City	25.22	11.895	0.1
	AIII				49.46	6.065	0.1
	F20	Mc/s.	kW.	XEXS, Mexico City XEYU, Mexico City	48.39	9.58	0.1
HE2S, Port-au-Prince	m. 50.68	5.92	0.1	no in the late of	32.32	3.50	5
HH2W, Port-au-Prince	48.9	6.135	0.03				
HH3W, Port-au-Prince	31.25	9.6	0.1	NICA	ARAGUA	A	
	49.37	6.077 9.563	I.				
HHK, Port-au-Prince	25.39	11.815	-		m.	Mc/s.	kW.
	19.61	15.3		YNAA, Managua	25.23	9.53	0.5
HHV, Port-au-Prince	21.5	13.95	0.25	1 147171, Trianagua	49.71	6.035	0.5
		1		YNGU, Managua	32.26	9.3	0.03
HON	DURAS			Alma Nica	45.07	6 525	0.3
HON	DUKA			YNIGG, Managua La Voz de los	45.91	6.535	0.2
	***	Mc/s.	kW.	Lagos			
HRD2, La Ceiba	m. 48.12	6.235	0.25	YNLF, Managua	₹31.06	9.66	0.5
La Voz de Atlantida				La Voz de Nica-	39.16	7.66	0.5
HRN, Tegucigalpa	51.06	5.875	0.5	YNLG, Managua	45 39	6.61	0.5
La Voz de Honduras HRP1, San Pedro Sula	47.24	6.351	0.1	Ruben Dario			
El Éco de Honduras	44.24	0.352		NAME OF THE OWNER OWNER OF THE OWNER	48.86	6.14	0.5
				YNMA, Managua	31.35	9.57 11.75	0.5
					(-3.33	/5	4.5
BRITISH	HOND	URAS		YNOD, Managua	41.63	.7.206	0.07
		1		Onda Latina YNOP, Managua	52 T	5 758	. 0.8
	m.	Mc/s.	kW.	Radio Bayer	52.1	5.758	. 0.0
ZIK2, Belize	28.3	10.6	0.1	YNPR, Managua	34.92	8.59	0.8
				La Voz de la Radio			
						1	
ST. KITTS (B	ritish V	Vest Indi	es)	Pilot			
ST. KITTS (E	ritish V	Vest Indi	es)	Pilot	NAMA	- Control of the Cont	
ST. KITTS (E	ritish V	West Indi	es)	Pilot	NAMA		
ST. KITTS (E		1		Pilot PA	NAMA m.	Mc/s.	kW.
	m.	Mc/s.		Pilot PA HP5A, Panama City		Mc/s.	kW.
VP2LO, St. Kitts	m. 47.02	Mc/s.		Pilot PA HP5A, Panama City La Voz de la	m.		
VP2LO, St. Kitts	m.	Mc/s.		Pilot PA HP5A, Panama City	m.		
VP2LO, St. Kitts	m. 47.02 EXICO	Mc/s. 6.38	kW.	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar	m. 25.64	6.03	0.3
VP2LO, St. Kitts	m. 47.02	Mc/s.		Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon	m. 25.64	11.7	0.3
VP2LO, St. Kitts	m. 47.02 EXICO	Mc/s. 6.38	kW.	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon	m. 25.64 49.75 49.34	6.03	0.3
VP2LO, St. Kitts M XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26	Mc/s. 6.38 Mc/s. 6.09	kW. 0.1	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64	6.03	0.3
VP2LO, St. Kitts M XEBF, Jalapa de Veracruz XEBR, Hermosilla de Sonora	m. 47.02 EXICO	Mc/s. 6.38	kW.	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0	6.03 6.08 11.78 6.122	0.3 0.2 0.3 0.75 0.4
VP2LO, St. Kitts M XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26	Mc/s. 6.38 Mc/s. 6.09	kW. 0.1	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47	6.03 6.08	0.3 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0	kW. 0.1 0.15	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0	6.03 6.08 11.78 6.122 11.895	0.3 0.2 0.3 0.75 0.4 0.03
VP2LO, St. Kitts M XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38	Mc/s. 6.38 Mc/s. 6.09	kW. o.1 o.15	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22	6.03 6.08 11.78 6.122 11.895	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38	kW. 0.1 0.15	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28	6.03 6.08 11.78 6.122 11.895	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075	kW. 0.1 0.15 0.5 20 0.045	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28	6.03 6.08 11.78 6.122 11.895	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52	kW. 0.1 0.15 0.5 20 0.045 0.1	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5H, Panama City La Voz del Pueblo HP5I, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28	6.03 6.08 11.78 6.122 11.895	0.3 0.2 0.3 0.75 0.4 0.03
VP2LO, St. Kitts M XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075	kW. 0.1 0.15 0.5 20 0.045	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City HP5H, Panama City La Voz del Pueblo HP5I, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Voz de la Victor HP5L, David (Chiri-	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96	6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz XEBR, Hermosilla de Sonora La Voz del Heraldo XEBT, Mexico City El Buen Touo XECR, Mexico City XECU, Guadalajara de Jalisco XEDQ, Guadalajara de Jalisco XETT, Veracruz La Voz de Veracruz XEGW, Mexico City	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52	kW. 0.1 0.15 0.5 20 0.045 0.1	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96	6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55	kW. o.1 o.5 20 o.045 o.1 o.012	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96	6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55	kW. o.1 o.5 20 o.045 o.1 o.012	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96	6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03
XEBF, Jalapa de Veracruz XEBR, Hermosilla de Sonora La Voz del Heraldo XEBT, Mexico City El Buen Touo XECR, Mexico City XECU, Guadalajara de Jalisco XEDQ, Guadalajara de Jalisco XEFT, Veracruz La Voz de Veracruz XEGW, Mexico City La Voz del Aguila Azteca XEME, Merida (Yucatan)	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55	kW. o.1 o.5 20 o.045 o.1 o.012	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City La Voz del Pueblo HP5I, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41	Mc/s. 6.38 Mc/s. 6.09 II.82 6.0 7.38 6.075 9.52 9.55 6.II	kW. o.1 o.15 o.5 20 o.045 o.1 o.012	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City La Voz del Pueblo HP5I, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz XEBR, Hermosilla de Sonora La Voz del Heraldo XEBT, Mexico City El Buen Touo XECR, Mexico City XECU, Guadalajara de Jalisco XEDQ, Guadalajara de Jalisco XEFT, Veracruz La Voz del Aguila Azteca XEME, Mexico City La Voz del Aguila Azteca XEME, Merida (Yucatan) La Voz de Yucatan XETA, Monterrey El Pregonero del Norte	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 31.51 25.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25 o.015	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5H, Panama City La Voz del Pueblo HP5H, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 31.51 25.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25 o.015 o.2	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5H, Panama City La Voz del Pueblo HP5H, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 31.51 25.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25 o.015	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5H, Panama City La Voz del Pueblo HP5H, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 31.51 25.51	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76	kW. o.1 o.15 o.5 20 o.045 o.1 o.012 o.25 o.015 o.2	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City La Voz del Pueblo HP5I, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon H OAXIA, Chiclayo	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3 kW. 0.2
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 25.51 49.63 49.83 49.02	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76 6.045 6.02 6.12	kW. o.i o.5 20 o.045 o.1 o.012 o.25 o.015 o.2 o.1 o.02 c.5	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City HP5H, Panama City La Voz del Pueblo HP5J, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon OAXIA, Chiclayo Voz de Chiclayo	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY m. 48.78	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005 11.74 Mc/s. 6.15	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3 0.3
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 31.51 25.51 49.63 49.83 49.02	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76 6.045 6.02 6.12	kW. o.i o.5 20 o.045 o.1 o.012 o.25 o.015 o.2	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City HP5H, Panama City La Voz del Pueblo HP5J, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon I OAXIA, Chiclayo Voz de Chiclayo reported testing on	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY m. 48.78 24.98	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005 11.74 Mc/s. 6.15 12.01	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3 0.3 kW. 0.2
XEBF, Jalapa de Veracruz	m. 47.02 EXICO m. 49.26 25.38 50 40.65 49.38 31.51 31.41 49.1 25.51 49.63 49.83 49.02	Mc/s. 6.38 Mc/s. 6.09 11.82 6.0 7.38 6.075 9.52 9.55 6.11 9.52 11.76 6.045 6.02 6.12	kW. o.i o.5 20 o.045 o.1 o.012 o.25 o.015 o.2 o.1 o.02 c.5	Pilot PA HP5A, Panama City La Voz de la Panama HP5B, Panama City Radio Miramar HP5F, Colon La Voz de Colon HP5G, Panama City HP5H, Panama City La Voz del Pueblo HP5J, Aguadulce La Voz del Interior HP5J, Panama City HP5K, Colon La Voz de la Victor HP5L, David (Chiriqui) PAF ZP14, Villarrica Radio Cultura, La Voz del Corazon OAXIA, Chiclayo Voz de Chiclayo	m. 25.64 49.75 49.34 25.47 49.0 25.22 31.28 49.96 25.55 RAGUAY m. 48.78	11.7 6.03 6.08 11.78 6.122 11.895 9.59 6.005 11.74 Mc/s. 6.15	0.3 0.2 0.3 0.75 0.4 0.03 0.2 0.3 0.3

Per	u (contd.)		
		Mala	1.577
OAX4G, Lima	m. 48.15	Mc/s. 6.23	kW.
Radio Grellaud			
now reported on OAX4I, Lima	47.62 31.51	6.3 9.52	0.2
Radio Internacional OAX4K, Lima	46.69	6.425	0.2
Radio Goicochea			
OAX4P, Huancayo Radio Andina Junin	49	6.122	0.25
OAX4T, Lima	31.37	9.562	10
Radio Nacional OAX4Z, Lima	49.24	6.092	15
Radio Nacional		11.8	
OAX5A, Ica Radio Universal	25.42		0.1
OAX5C, Ica Radio Universal	50	6	0.1
OAX6A, Arequipa	49	6.122	0.1
OAX7A, Cuzco Radio Cuzco	48.96	6.128	0.1
SAN S	SALVAD	OR	
	m.	Mc/s.	kW.
YSD, El Salvador	38.02	8.89	
YSH, El Salvador YSM, El Salvador	31.51 25.62	9.52 11.71	_
Radiodifusora			
Nacional			6
UR	UGUAY		
		3.6 - 1-	1 337
CXA4, Montevideo	m. 48.98	Mc/s. 6.125	kW.
Radio Continental CXA8, Colonia	21.55	40 ST	
Radio Colonia	31.55	9.51	2.5
VEN	EZUELA		
AMERICA.	m.	Mc/s.	kW.
*YVQ, Maracay	46.55	6.445	20
*YVKB, Caracas			
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas	46.55 48.61 25.59 19.59	6.445 6.172 11.725 15.315	20 30 15
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations)	46.55 48.61 25.59 19.59 31.12	6.445 6.172 11.725 15.315 9.64	20 30 15 15 30
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia	46.55 48.61 25.59 19.59	6.445 6.172 11.725 15.315	20 30 15
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo	46.55 48.61 25.59 19.59 31.12	6.445 6.172 11.725 15.315 9.64	20 30 15 15 30
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YV1RB, Maracaibo Ecos del Zulia YV1RE, Maracaibo Radio Maracaibo YV1RG, Valera	46.55 48.61 25.59 19.59 31.12 51.28	6.445 6.172 11.725 15.315 9.64 5.85	20 30 15 15 30
*YVKB, Caracas *YVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YV1RB, Maracaibo Ecos del Zulia YV1RE, Maracaibo Radio Maracaibo YV1RG, Valera Voz de Valera	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23	20 30 15 15 30 0.25 0.25
*YVKB, Caracas *YVVOR, Caracas *YVVX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo Radio Maracaibo YVIRG, Valera Voz de Valera YVIRH, Maracaibo Ondas del Lago	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23	20 30 15 15 30 0.25 0.25 0.25
*YVKB, Caracas *YVOR, Caracas *YVVRX, Caracas *YVSC, Caracas (*Government Stations) YV1RB, Maracaibo Ecos del Zulia YV1RE, Maracaibo Radio Maracaibo VIRG, Valera Voz de Valera YV1RH, Maracaibo Ondas del Lago YV1RI, Coro Radio Coro	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23	20 30 15 15 30 0.25 0.25
*YVKB, Caracas *YVOR, Caracas *YVVRX, Caracas *YVSC, Caracas *YVSC, Caracas (*Government Stations) YV1RB, Maracaibo Ecos del Zulia YV1RE, Maracaibo Radio Maracaibo YV1RG, Valera Voz de Valera YV1RH, Maracaibo Ondas del Lago YV1RI, Coro Radio Coro YV1RI, Coro	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21	20 30 15 15 30 0.25 0.25 0.25 0.15
*YVKB, Caracas *YVVOR, Caracas *YVVX, Caracas *YVYX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo Radio Maracaibo YVIRG, Valera Voz de Valera YVIRH, Maracaibo Ondas del Lago YVIRI, Coro Radio Coro YVIRI, Coro YVIRK, Maracaibo Radio Popular	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36 50.59	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21 4.97 5.93	20 30 15 15 15 30 0.25 0.25 0.25 0.15
*YVKB, Caracas *YVVOR, Caracas *YVVOR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YV1RB, Maracaibo Ecos del Zulia YV1RE, Maracaibo Radio Maracaibo YV1RG, Valera Voz de Valera YV1RH, Maracaibo Ondas del Lago YV1RI, Coro Radio Coro YV1RJ, Coro YV1RK, Maracaibo Radio Popular YV1RM, Maracaibo Radio Maracaibo Radio Maracaibo Radio Maracaibo	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36 50.59 46.15	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21 4.97 5.93 6.5	20 30 15 15 30 0.25 0.25 0.25 0.15 1 0.25
*YVKB, Caracas *YVVR, Caracas *YVVR, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo Radio Maracaibo YVIRG, Valera YVIRH, Maracaibo Ondas del Lago YVIRI, Coro Radio Coro YVIRI, Coro YVIRI, Coro YVIRK, Maracaibo Radio Popular YVIRK, Maracaibo Radio Maracaibo YVIRM, Maracaibo Radio Maracaibo YVIRM, Maracaibo Radio Maracaibo YVIRT, Maracaibo YVIRT, Maracaibo YVIRT, Maracaibo	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36 50.59 46.15 62.89	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21 4.97 5.93 6.5	20 30 15 15 30 0.25 0.25 0.25 0.15 I 0.25 0.25
*YVKB, Caracas *YVVOR, Caracas *YVVOR, Caracas *YVVX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo Radio Maracaibo YVIRG, Valera Voz de Valera YVIRH, Maracaibo Ondas del Lago YVIRI, Coro Radio Coro YVIRI, Coro YVIRK, Maracaibo Radio Popular YVIRM, Maracaibo Radio Maracaibo YVIRT, Maracaibo YVIRT, Maracaibo YVIRU, Maracaibo YVIRU, Maracaibo YVIRU, Maracaibo YVIRV, Maracaibo	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36 50.59 46.15 62.89 62.37 62.5	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21 4.97 5.93 6.5	20 30 15 15 30 0.25 0.25 0.25 0.15 1 0.25
*YVKB, Caracas *YVVR, Caracas *YVVR, Caracas *YVPX, Caracas *YVSC, Caracas (*Government Stations) YVIRB, Maracaibo Ecos del Zulia YVIRE, Maracaibo Radio Maracaibo YVIRG, Valera Voz de Valera YVIRH, Maracaibo Ondas del Lago YVIRI, Coro Radio Coro YVIRJ, Coro YVIRK, Maracaibo Radio Popular YVIRM, Maracaibo Radio Maracaibo YVIRU, Maracaibo YVIRU, Maracaibo YVIRU, Maracaibo YVIRU, Maracaibo YVIRV, Maracaibo	46.55 48.61 25.59 19.59 31.12 51.28 51.64 48.15 47.17 48.31 60.36 50.59 46.15 62.89 62.37 62.5 61.35	6.445 6.172 11.725 15.315 9.64 5.85 5.81 6.23 6.36 6.21 4.97 5.93 6.5	20 30 15 15 30 0.25 0.25 0.25 0.25 0.25 0.25 0.25
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(Continued at foot of col. 3, page 19)

Short-Wave News-Reel

Compèred by "RANGER"

First place this week is given to the account of the broadcast from the salt flats over which Capt. Eyston drove his wonderful car at the record-breaking speed of 345 miles per hour. It is interesting to reflect that the roar of the engine starting up would actually be heard by distant short-wave listeners before it became audible to many spectators along the track.

LAND RECORD BROKEN

NOTHER outstanding special broadcast A NOTHER outstanding special 27—this was heard on Saturday, August 27—this time from W2XE at 15.45. It was a commentary on the breaking of the world's land speed record by Capt. G. E. T. Eyston in his

reconstructed car Thunderbolt.

The British motorist had already completed the North to South run of approximately 15 miles with the measured mile in the middle, and was only waiting for the all-clear signal before completing the run in the opposite direction. As soon as the "O.K." was received the 7-ton monster *Thunderbolt* was quickly got under way, the 24-cylinder engine starting up with a tremendous report. We were passed then to the middle section of the course overlooking the measured mile, where Dick Evans "took over," and in a few seconds listeners heard Thunder-bolt, a "streak of grey on the white salt," flashing past the measured mile on the Salt Flats. Again we were switched over, this time to the South end, where, after a few seconds only, it seemed, *Thunderbolt* was sighted and very soon was at the end of its journey. Capt. Eyston, after being released from the cockpit, spoke a few words to the international wireless audience. He said that the run both ways had been very comfortable and that everything had worked perfectly.

The Governor of Utah congratulated Capt. Eyston, and then it was announced that Thunderbolt had raised the record speed another 33 m.p.h., having covered, with Capt. Eyston at the wheel, the round trip at the amazing average speed of 345.49 m.p.h.

Hounslow, Mddx.

J. I. W.

THE HEAD-HUNTERS

Next, by way of contrast, we have an account of the primitive; the natives of Formosa. FROM W2XAD, at 18.30 on August 26, I heard a most interesting travel talk from a series now being broadcast weekly by the roving professor,

The Head-Hunters of the Isle of Formosa were the subject; the name Formosa incidentally, when translated, means "The beautiful isle." The population of Formosa consists of the Head-Hunters, who live far in the interior, Chinese, and Japanese, who at present are in

the majority.

Prof. MacGovern.

Describing the Head-Hunters he said that under Japanese rule they were now much more subdued, but still made occasional lightning raids on Japanese outposts, usually returning with a number of heads as trophies. Prof. MacGovern, after much persuasion on his part, was given permission by the authorities to travel amongst them alone, and to his great surprise had a warm welcome everywhere. This he discovered was due to the surprising fact that he had a big nose. He explained that the Head-Hunters had many years ago enjoyed living under the Dutch flag, the ruler's name translated being "The man with the big nose." thought the professor was either a descendant or the ruler himself returned from the dead.

Glenfarg, Perth.

Primarily reporting a broadcast from Addis Ababa, this contributor indicates that, if one listens at the right time, the African stations can provide interesting reception.

AFRICAN ENTERTAINMENT

On Thursday, August 18, at 19.05, after listening to an operatic song recital from Nairobi, VQ7LO, and eight o'clock chimes and talk in Afrikaans from Pretoria, ZRH (50 m.), I turned to the 31 m. band to attempt reception of the

new 1 kW station at Addis Ababa, Ethiopia.

Immediately above the powerful Norwegian station LKC, I discovered a transmission in Italian, which soon proved to be a news bulletin, read by a lady announcer, coming from Addis Ababa. This bulletin was afterwards repeated in French. Then came a programme of Ethiopian songs and dances, and strange instrumental items which, though very weird, was all very interesting. Unfortunately, at 19.30, interference from Moscow, transmitting on 31.51 m., became too severe to allow of further enjoyable reception from this newcomer to the short-wave sphere.

The frequency of Addis Ababa was given as

9.525 Mc/s, and transmissions take place daily between 19.00 and 20.00 B.S.T. Reception on

this occasion was at a strength of R5.

To conclude an evening of entertainment from Africa I tuned in ZRK, Capetown (just clear of YUA), for a band concert, and CR7BH, Lourenço Marques (25.6 m.) for accordion solos.

Yate, Glos.

BROADCASTING IN ICELAND

News of the arrangements for broadcasting in Iceland made an interesting talk, as reported in the following contribution.

AT 19.40 B.S.T. on August 28, from Reykjavik, came an interesting account of broadcasting in Iceland. Established in 1930, the service is State-controlled and managed by a committee of eight members, three being elected by listeners, four by Parliament, with an independent chairman. At present there are only two transmitters in operation, the 100 kW long-wave on 1,442 m. and the short-wave on 24.52 m., from which this programme was heard. A medium-wave station is in course of construction which will have a power of 1 kW and will relay the long-wave programme.
On June 30 this year 14,780 licences had been

issued, the annual cost being 13 kroner. average number of broadcast hours each year is 2,400, and the programmes are modelled on usual Scandinavian lines. A permanent orchestra and choirs are a special feature of Icelandic programmes, and plays are broadcast once a week. Lessons in five languages are given, including English and Esperanto.

An old custom in Iceland was for the family to gather round in the evening to listen to literary reading by the head of the family; this has now been replaced by a programme called Twilight Reading," broadcast one evening each week in the winter.

Weather forecasts are given in three languages, thereby being of great service to shipping round those dangerous coasts. Reception reports have been received from all over the world, but mostly from North America and Great Britain.

Having listened to many of these Sunday night talks in English, I feel that I am beginning know quite a lot about this interesting northern country, and would recommend them to other listeners.

London, NA3.

H.W.

Below 100 Metres By "METROPOLITAN"

(August 21-26)

VERY favourable short-wave conditions have V prevailed during the above period, a distinct improvement having been noted on the higher frequencies. The 13 m. U.S. broadcasters have been well received from mid-day onwards and the 10 m. band is opening up too, U.S. amateurs having been heard as late as 20.00.

band is opening up too, U.S. amateurs having been heard as late as 20.00.

VK2ME was quite intelligible at 07.30 on Sunday. A fair amount of activity was noticed on 10 m. during the day. W3XAL (16.87 m.) provided a steady R7 signal throughout the afternoon and evening, when the number of U.S. channels were augmented by W2XAD, W8XK, and later, by W1XK and W2XAF.

Good results were obtained during the late evening on Monday, the 16 m. and 19 m. U.S. transmitters all being received very well. There was, however, a very rapid "flutter" noticeable on nearly all short-wave transmissions.

W2XE (13.94 m.) peaked to a good R8 around 12.40 on Thursday. There was an occasional deep fade but no programme was lost. W8XK (13.93 m.) was also heard, but at no time did it reach the strength of the former station. After midnight the 25, 31, and 49 m. bands afforded the best results. W8XK (25.26 m.) and W2XE (25.36 m.) were R7, and the 31 m. band was simply-crowded results. W8XK (25.26 m.) and W2XE (25.36 m.) were R7, and the 31 m. band was simply-crowded with signals. W1XK, W2XAF, and W2XAD, and the Cuban and South Americans all came in at good volume. VE9HX (48.92 m.) at Halifax, Canada, was R7 at 02.00, and other stations heard in this band were W3XAL, COCD, HP5H, and YVSDD. and YV5RD.

and YV5RD.

VUD2, Delhi, was R4 at 18.20 on Friday. A little later VQ7LO was heard, but this transmitter did not peak to more than R5. Good results were again obtained during the late evening period. W3XAL was R8 at 23.45 and the Americans in the 19 m. band were all good R7 signals and free from fading. The South Americans were even better than on the previous nights; LRX, HJ7ABD, and XFWW together with others too numerous to

and XEWW, together with others too numerous to mention, helped to fill the evening's log.

The Short-Wave Stations of Central and South America

(Continued from opposite page)

Venezuela (contd.)

	m.	Mc/s.	kW.
YV4RP, Valencia	60.85	4.93	2
YV4RQ, Puerto Cabello	59.76	5.02	2
YV4RX, Maracay	61.98	4.84	0.5
YV4RZ, Maracay	59.64	5.03	IO
YV5RC, Caracas-Catia	50.26	5.97	2.5
Radio Caracas			
YV5RD Caracas-Catia	48.72	6.158	2.5
Radiodifusora Vene-	90		
zolana			La Company
YV5RF, Caracas	47.05	6.375	0.3
Ecos de Caribe			- 1
YV5RH, Caracas	46.88	6.4	0.5
Jardines del Valle			
Ondas Populares	48	6 25	
YV5RJ, Caracas	40	6.25	I
La Voz de la Esfera	eo 99	C 0.	**
YV5RM, Caracas	59.88	5.01	io
YV5RN, Caracas	59.52	5.04	
YV5RO, Caracas	60.73	4.94	10
YV5RQ, Caracas	47.85	6.27	I
La Voz de la Philco	62 **	4 9 2	_
YV5RR, Caracas	62.11	4.83	5 0.25
YV5RS, Caracas Estudios Universos	51.41	5.835	0.25
WILL DOT C	60.24	4.09	**
YV5R1, Caracas	60.24	4.98	10
YV5RU, Caracas		4.92	2
YV6RB, Ciudad Bolivar	62.83	4.79	5
Ecos del Orinoco	45.84	6.545	0.2
YV6RC, Ciudad Bolivar	46.73	6.42	0.2
Radio Bolivar	40./3	0.42	0.2
THEODER D	62.76	4.78	0.5
YV6RE, Barcelona YV6RQ, San Fernando	62.76	4.78	0.5
YV6RT, Ciudad Bolivar	61.73		2
YV6RU, Ciudad Bolivar		4.9	2
1 voko, Ciudad Bolivar	61.48	4.88	0.5

SHORT-WAVE BROADCASTING STATIONS

For to	ansmissi	on times (B.S.T.) of stat	ions shown in black type see Short-Wave Pro	gramme	s. The		padcasting wa	vebands are indicated by heavy vertical lines.
Mc/s	m 61.48	kW 10	VUC2	Station Calcutta (India).	Mc/s 9.66	m. 31.06	k\\ 7	Call LRX	Station Buenos Aires (Argentine). 22.00-07.00.
4.90	61	10	VUB2	Bombay (India). 13.00—18.30.		30.98	10-	TGWA	Guatemala City (Guatemala).
4.95	60.61	10	VUM2	Madras (India). 13.00—18.00.	9.74	30.8	{ 1 · 5	COCQ	Havana (Cuba). 18.00-07.00.
4.99 5.14	60 58.31	10 0.5	VUD2 OK1MPT	Delhi (No. 2) (India). Poděbrady (Prague) (Czechoslovakia).	9.83	30.51	1	CSW3 COCM	Lisbon (Portugal). Havana (Cuba). 22.00—07.00.
5.15	58.3	1	PMY	Bandoeng (Java).	9.86	30.43	20	EAQ	Madrid (Spain).
5.97	50.26	2.5	YV5RC XEBT	Caracas (Venez.). 00.00—04.00. Mexico City. 16.00—06.00.	10.22	29.35	1.5	PSH	Marapicú (Brazil). 00.00—01.00. Bandoeng (Java). (As YDB, 31.2 m.).
6.00	50	7	ZRH	Pretoria (S. Africa). 16.00—22.00.	10.33	29.04	9	ORK	Ruysselede (Belgium). 19.30-21.00.
6.00	49.96	0.1	CFCX	Montreal (Canada). 12.45—06.00.	10.35		12	LSX	Buenos Aires. Fri., 22.00—22.45.
		1	CXA2 COCO	Montevideo (Uruguay). 16.00—04.00. Havana (Cuba). 23.00—06.00.	10.37		10	EA1BO JIB	Burgos (Şpain). Taihoku (Formosa) (Japan).
6.01	49.92	30	OLR2A	Poděbrady (Prague) (Czechoslovakia).	11.00	27.27	1.5	PLP	Bandoeng (Java). (As YDB, 31.2 m.).
6.02	49.83	5-40	CJCX DJC	Sydney (N.S.). 12.00-18.30; 21.00-01.30. Zeesen (Germany).	11.04		20	CSW2 HBO	Lisbon (Portugal). Radio-Nations (Switzerland).
6.02		§ 30	OLR2B	Poděbrady (Prague) (Czechoslovakia).	11.53		20	SPD	Warsaw (Poland).
6.03	49.75	25	HVJ W1XAL	Vatican City (Italy).	11.65	25.75	1 0.75	COCX	Havana (Cuba). 14.00—07.00.
6.04	49.67	{ 20 5	W4XB	Boston (Mass.) (U.S.A.). Miami (Florida) (U.S.A.).	11.70	25.64	0.15	CB1170	Motala (Sweden). Relays Stockholm. Santiago (Chile). 15.00—04.00.
6.05	49.59	10-50	GSA	Daventry.	11.72	25.6	\ \begin{cases} 2 \\ 12 \end{cases}	CJRX	Winnipeg (Canada). 23.00—09.00.
6 .06	49.5	10	W8XAL	Cincinnati (U.S.A.). 10.45 — 01.00; 04.00—07.00; Sun., 13.00—01.00.			25	TPA4 PHI	Paris-Mondial (France). Huizen (Holland).
		10	W3XAU	Philadelphia. 01.00-04.00 (ex. Fri.).	11.73		120	WIXAL	Boston (Mass.) (U.S.A.).
6.06	49.46	0.75	SBO VP3MR	Motala (Sweden). Relays Stockholm. Georgetown (Brit. Guiana).	11.75	25.53 25.51	10-50 30	OLR4B	Poděbrady (Prague) (Czechoslovakia).
6.08	49.33	0.5	VQ7LO	Nairobi (Kenya).	11.77	25.49	5-40	DJD	Zeesen (Germany).
6.09	49.28	0.5 2.5	CFRX	Toronto (Canada). 23.00—04.00.	11.78	25.47	1		Lahti (Finland). 08.00-08.45; 12.00-13.45.
6.09	49.24	15	ZBW2 OAX4Z	Hong Kong. Lima (Peru). 00.00—06.30.	11.79	25.45	50	W1XAL JZJ	Boston (Mass.) (U.S.A.). Tokio (Japan).
6.10	49.2	{ 5	ZRK	Capetown (S. Africa). 18.00-22.00.	11.80	25.42	5-40	DJO	Zeesen (Germany).
		15-35	ZRJ W3XAL	Bound Brook (N.J.) (U.S.A.).	11.81	25.4	1.5	OER3 I2RO4	Vienna Exp'tl Weekdays, 15.00—23.00. Rome (Italy).
6.10	49.18	10	W9XF	Chicago (Ill.) (U.S.A.).	11.82	25.38	10-50	GSN	Daventry.
6.11	49.1	10-50	YUA GSL	Belgrade (Yugoslavia). Daventry.	1	25.36	10	W2XE CSW4	Wayne (N.J.) (U.S.A.). Lisbon (Portugal).
6.12	49.02	10	W2XE	Wayne (N.J.) (U.S.A.).	11.84	25.34	30	OLR4A	Poděbrady (Prague) (Czechoslovakia).
6.12	48.98	5	CXA4	Montevideo (Uruguay). 21.00—03.00.	11.85	25.31	5-40	DJP	Zeesen (Germany).
6.13	48.94	0.25	LKJ COCD	Jelöy (Norway). 17.30—23.00. Havana (Cuba). 16.00—06.00.	11.87	25.29	10-50 24	W8XK	Daventry. Pittsburgh (U.S.A.).
6.13	48.9	0.5	VE9HX	Halifax (Nova Scotia). 12.00—04.00.	11.88	25.24	25	TPB7	Paris-Mondial (France).
6.14	48.83	0.01	W8XK ZRD	Pittsburgh (U.S.A.). Durban (S. Africa). 05.45—22.00.	11.90		12 20	VZSPS	Paris-Mondial (France). Moscow (U.S.S.R.).
6.15	48.78	2	CJRO	Winnipeg (Canada). 23.00—05.00.	12.23	24.52	7.5	TFJ	Reykjavik (Iceland).
6.41	46.8	0.5	TIPG	San José (Costa Rica). 13.00—05.30. Riobamba (Ecuador). Thurs., 03.00-05.00.	13.63	22 21.35	2	SPW	Warsaw (Poland).
6.67	44.94	20	HBQ	Radio-Nations (Switzerland).	14.53	20.64	20	EAJ1 HBJ	Barcelona (Spain). Radio-Nations (Switzerland).
7.03	42.7		EAJI	Barcelona (Spain).		20.38	15	RWG	Moscow (U.S.S.R.).
7.50 7 .80	38.48	20	EA1BO HBP	Burgos (Spain). Radio-Nations (Switzerland).	15.11	19.89 19.85	25 5-40	RKI DJL	Moscow (U.S.S.R.). Zeesen (Germany).
8.46	35.44	1.5	LZA	Sofia (Bulgaria). Relays Sofia (352.9 m.).	15.12	19.84	25	HVJ	Vatican City (Italy).
9.12	32.88	6	HAT4 COCH	Budapest (Hungary). Havana (Cuba). 18.00—05.30.	15.13	19.83	{ 25 20	TPB6 W1XAL	Paris-Mondial (France). Boston (Mass.) (U.S.A.).
	31.62	10	EAR	Madrid (Spain).	15.14	19.82	10-50	GSF	Daventry.
		12 5	PRF5 VK3ME	Rio de Janeiro (Brazil). 22.45—23.45. Melbourne. Weekdays, 10.00—13.00.	15.15	19.8	1.5	YDC VUD3	Bandoeng (Java). (As YDB, 31.2 m.). Delhi (India).
9.50	31.58	5	HS8PJ	Bangkok (Siam). Thurs., 14.00—16.00.	15.16		10 50	JZK	Tokio (Japan).
		10	XEWW	Mexico City.	15.17	19.78	§ 10	TGWA	Guatemala City. 18.30—21.00.
	21.55	10-50	GSB	Lahti (Finland). 17.00—23.00. Daventry.	15.18	19.76	10-50	OZH GSO	Skamlebaek (Denmark). Daventry.
9.51	31.55	2.5	CXA8	Montevideo (Uruguay). 12.00—17.00.	15.19	19.75	2.5	ZBW4	Hong Kong.
9.52	31.51	25	OZF TPB11	Skamlebaek (Denmark). 02.00—05.00. Paris-Mondial (France).	15.20	19.74	5-40 18	DJB W8XK	Zeesen (Germany), Pittsburgh (U.S.A.).
9.52	31.5	7	ZRH	Pretoria (S. Africa). 05.45—13.30.	15.22	19.71	60	PCJ2	Huizen (Holland). Exp'tl.
9.52	31.49	2.5	ZBW3 VUC2	Hong Kong. 05.30—07.15; 09.00—15.30. Calcutta (India).	15.23	19.7 19.68	30	OLR5A TPA2	Poděbrady (Prague) (Czechoslovakia). Paris-Mondial (France).
9.53	31.48	√ 1	LKC	Jelöv (Norway), 11.00—14.00,	15.25	19.67	12 20	WIXAL	Boston (Mass.) (U.S.A.).
9.53	31.47	0.4	W2XAF VPD2	Schenectady (N.Y.) (U.S.A.). Suva (Fiji Islands). 11.30—13.00.	15.26	19.66 19.65	10-50	GSI	Daventry. Wayne (N.J.) (U.S.A.).
9.54	31.45	5-40	DJN	Zeesen (Germany).	15.27 15.28	19.63	10 5-40	W2XE DJQ LRU	Zeesen (Germany).
9.55	31.41	30 25	OLR3A HVJ	Poděbrady (Prague) (Czechoslovakia). Vatican City (Italy).	15.29	19.62	7		Buenos Aires (Argentine). 12.00—23.00.
		10	VUB2	Bombay (India).	15.31 15.33	19.6 19.57	10-50 18	GSP W2XAD	Schenectady (N.Y.) (U.S.A.).
9.55	31.4	18	W2XAD YDB	Schenectady (N.Y.) (U.S.A.). Sourabaya (Java). Daily, 10.30—15.30.	15.34	19.56	5-40	DJR	Zeesen (Germany).
9.56	31.38	5-40	DJA	Zeesen (Germany).	15.37 17.31	19.52 17.33	6 10	HAS3 W2XGB	Budapest (Szekesfehervar) (Hungary). Hicksville (N.Y.). MonFri., 16.00-18.00.
9.56	31.37	10	OAX4T W1XK	Lima (Peru). 17.30—19.30.	17.75	16.9	2.5	ZBW5	Hong Kong.
9.57	31.35	{ 10 1	KZRM	Millis (Mass.) (U.S.A.). Manila. 10.00—14.00; 21.30—23.00.	17.76	16.89	} 5-40 } 10	DJE W2XE	Zeesen (Germany). Wayne (N.J.) (U.S.A.).
9.58	31.32	10-50	GSC	Daventry.	17.76	16.88	25	TPB3	Paris-Mondial (France).
		10	VLR W3XAU	Melbourne (Australia). Philadelphia. 17.00—01.00 (ex. Fri.).	17.77 17.78	16.88	25 15-35	PHI2 W3XAL	Huizen (Holland). Bound Brook (U.S.A.).
		20	VK2ME	Sydney (Australia). Sun., 06.30—08.30;	17.79	16.86	10-50	GSG	Daventry.
9.59	31.28	1	MICHE	10.30—14.30; 15.30—17.30.	18.11	16.56	5	LSY3	Buenos Aires (Argentine). Fri., 23.00.
	100	60	VK6ME PCJ	Perth (W. Australia). W'days, 12.00-14.00. Huizen (Holland). Exp'tl.	18.48	16.23 15.77	20	HBH HS8PJ	Radio-Nations (Switzerland). Bangkok (Siam). Mon., 14.00—16.00.
9.59	31.3	10	VUD2	Delhi (No. 2) (India).	21.45	13.99	5-40	DJS	Zeesen (Germany).
9.60	31.25	{ 20 7	RW96 ZRK	Moscow (U.S.S.R.) Capetown (S. Africa). 05.45—17.45.	21.47	13.97 13.95	10-50 18	GSH W2XAD	Daventry. Schenectady (N.Y.) (U.S.A.).
9.61	31.2	í	YDB	Sourabaya (Java). 04.30—08.00; 10.30—	21.52	13.94	10	W2XE	Wayne (N.J.) (U.S.A.).
9.63	31.13	25	I2RO3	16.30; and, ex. Sun., 00.0001.30. Rome (Iraly).	21.53 21.54	13.93 13.93	10-50	GSJ W8XK	Daventry. Pittsburgh (U.S.A.).
	31.09	2	CS2WA		21.55	13.92		GST	Daventry.

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

					•		QUEI TOILS				TELLITO IIIO
ko	c/s	m. kW	Station	kc/s	m.	kW	Station	kc/s	m.	kW	Station
١.			No. 1. 150-300 kc/s.			1	Assiut (Egypt)	1140	263.2	7	Turin (No. 1) (Italy)
			Ankara (Turkey)	731	410.4	3 5	Madrid (EAJ2) (Spain)	1149	261.1	40	LONDON NATIONAL
1	53		Kaunas (Lithuania)			20	Seville (EAJ5) (Spain) Tallinn (Estonia)	1149	261.1	40 50	NORTH NATIONAL SCOTTISH NATIONAL
1.	60	1875	Hilversum (No. 1) (Holland) (10 kW only until 5.40 B.S.T.)	740	405.4	100	Munich (Germany)	1158	259.1	10	Košice (Czechoslovakia)
_	00	150				(100	Marseilles (PTT) (France)	1167	257.1	15	Monte Ceneri (Switzerland)
1	66	1807 156		749	400.5	1	Pori (Finland)	1176	255.1	10	Copenhagen (Denmark)
- 1		1744 50		758	395.8	12	Katowice (Poland)	1185	253.2	60	Nice-Côte d'Azur (France)
		1648 8		767	391.1	60	BURGHEAD				Cassel (Germany)
		1622		767	391.1	70	SCOTTISH REGIONAL	1105	251	2	Coblenz (Germany)
		1600 2				0.25	Sortavala (Finland)	1195	251 <	25	Frankfurt (Germany)
		1571 60 1500 150		776	386.6	10	Stalino (U.S.S.R.)			5 2	Freiburg-im-Breisgau (Ger.) Trier (Germany)
2	UU	(= 0				120	Toulouse PTT) (France)	1204	249.2	5	Moravská-Ostrava (Czecho.)
2	08	1442		785	382.2	120	Leipzig (Germany)	1213	247.3	60	Lille (Radio PTT Nord).(France)
2	16	1389 15		795	377.4		Barcelona (EAJI) (Spain)	1222	245.5		Narvik (Norway)
		1379 10				50	Lwów (Poland)	1222	245.5	60	Rome (No. 2) (Italy)
2	24	1339 , 12		804	373.1	5	PENMON (Anglesey)	1231	243.7	5	Gleiwitz (Germany)
2	32	1293	Luxembourg	814	368.6	70 50	WELSH REGIONAL Milan (No. 1) (Italy)			5	Göriltz (Germany)
		(10				12	Bucharest (Romania)	1235 1249	242.9 240.2	1 17	Cork (Eire)
		1250 6		823	364.5	10	Bodö (Norway)	1247	240.2	1	Saarbrücken (Germany) Florence (No. 2) (Italy)
-		1209.6 10				35	Kiev (No. 2) (U.S.S.R.)	1258	238.5	15	Riga (Latvia)
2	30.4	1170 2:		022	2000	0.4	Rueil-Malmaison (Radio 37)			20	Salamanca (Spain)
2	60	1153.8		832	360.6		(France)	1267	236.8	2	Nürnberg (Germany)
	~~	1				10	Stavanger (Norway)	1276	235.1	27	Radio-Méditerranée (France)
2	71	1107 10	Leningrad (No. 1) (U.S.S.R.)	841	356.7	100	Berlin (Germany)	10.0	200.2	2	Varna (Bulgaria)
		1065				1	Porsgrund (Norway)	1285	233.5	1 0 25	ABERDEEN
2	83	1060 3	Tiflis (U.S.S.R.)	850	352.9	100	Sofia (Bulgaria)	1286	233.2	1	Dresden (Germany)
		Band	No. 2. 300-500 kc/s.	1,00	002.7		Saragossa (Spain)			5	San Sebastian (Spain) Klagenfurt (Germany)
3	00	1000 10				10	Valencia (Spain) Simferopol (U.S.S.R.)	1294	231.8	5	Vorariberg (Germany)
	40	882.3 2		859	349.2	100	Strasbourg (France)	1303	230.2	0.5	Danzig (Danzig Free City)
3	47	864 1	Finmark (Norway)	868	345.6	50	Poznań (Poland)			0.25	Karlstad, Norrköping,
	50	857.1		877	342.1		LONDON REGIONAL	1312	228.7		Trollhättan (Sweden)
	55	845.1 20		886	338.6	15	Graz (Germany)	1221	227.1		Malmö (Sweden)
	59. 5			000	330.0	15	Linz (Germany)	1321	227.1	2	Magyaróvár (Hungary) Bremen, Flensburg, Hanover,
3	75	800 4		895	335.2	10	Helsinki (Finland)	1330	225.6		Stettin (Germany)
3	92	765	(Power 15 kW after 6 p.m.)				Limoges (PTT) (France)	2000		0.5	Magdeburg (Germany)
	_		2.5 Boden (Sweden)	904	331.9	100	Hamburg (Germany)	1333.3	3 225		Thessaloniki (Greece)
4	01	748	1.3 Geneva (Switzerland)	913	328.6	10 60	Dniepropetrovsk (U.S.S.R.) Toulouse (Radio - Toulouse)	1339	224	2	Lódz (Poland)
4	13.5		0.6 Ostersund (Sweden)	713	320.0	00	(France)	1007		1	Montpellier (PTT) (France)
		(1		922	325.4	32	Brno (Czechoslovakia)				Cairo (No. 2) (Egypt)
4	31	696 1	Oulu (Uleaborg) (Finland)	932	321.9	15	Brussels (No. 2) (Belgium)			0.5	Dublin (Eire) L'Ile de France (France)
		Band 1	No. 3. 500-1,500 kc/s.			12.	Algiers (North Africa)	1240		2	Königsberg (No. 2) (Germany)
5	12	586	0.5 Tartu (Estonia)	941	318.8	10	Göteborg (Sweden)	1348	222.6<	1	Naples (No. 2) (Italy)
			Baranowicze (Poland) (Testing)	950	315.8	100	Breslau (Germany)			0.15	Rjukan (Norway)
5	19).7 Hamar (Norway)	959	312.8	60	Poste Parisien (France)	-		2	Salzburg (Germany)
			Innsbruck (Germany)	968	309.9		Agen (France)			0.7	Tampere (Finland)
5	27	569.3	6.3 Ljubljana (Yugoslavia) Viipuri (Finland)			1 10	Odessa (U.S.S.R.)			1	Ancona (Italy)
			Bolzano (Italy)	977	307.1	100	NORTHERN IRELAND			5	Bari (No. 2) (Italy)
5	36	559.7 } 5				50	REGIONAL Bologna (Radio - Marconi)	1357	221.1	4	Genoa (No. 2) (Italy) Milan (No. 2) (Italy)
5	46	549.5 12		936	304.3	30	(Italy)				Notodden (Norway)
5	56	539.6 10		700	00110	60	Toruń (Poland)			1	Rome (No. 3) (Italy)
		I		995	301.5	60	Hilversum (No. 2) (Holland)			0.2	Turin (No. 2) (Italy)
5	65		Palermo (Italy)	1			(Power 10 kW only until	1366	219.6	1 -	Bordeaux-Sud-Ouest (France)
5	74	522.6 10					5.40 B.S.T.)	1375 1384	218.2	0.5	Basle, Berne (Switzerland)
		(2)	The state of the s	1004	293.8	1	Bratislava (Czechoslovakia)	1393	216.8 215.4	7 25	Warsaw (No. 2) (Poland) Radio-Lyons (France)
5	83	514.6 { 5		1013	295.2	70	Chernigov (U.S.S.R.) MIDLAND REGIONAL	1402	214	2	Stara-Zagora (Bulgaria)
5	92	506.8 10				3	Barcelona (EAJ15) (Spain)	1411	212.6	15	Radio-Normandie (France)
-	01	400 2		1022	293.5	10	Cracow (Poland)	1420	211.3	10	Vaasa (Finland)
0	01	499.2					Oviedo (Spain)				Alexandria (No. 2) (Egypt)
6	10	491.8 2				100	Königsberg (No. 1) (Heilsberg)	1429	209.9	2.5	Milan (No. 3) (Italy)
		(1	and the same of th	1031	291	-	(Germany)			0.5	Turku (Finland)
0	20	483.9				5	Parede (Portugal)	1438	203.6		Miskole (Hungary)
6	25	480		1040	288.5	10	Leningrad (No. 2) (U.S.S.R.) Rennes-Bretagne (France)	1447	207.3	6	Burgos (Spain)
		2		1050	285.7	50	W. OF ENGLAND REG'L.	1456	206	7	Eiffel Tower (Paris) (France)
6	29 -	476.9	Lisbon (Emissora Nacional) (Portugal)	1059	283.3	20	Bari (No. 1) (Italy)	1465	204.8		Antwerp, Courtrai (Belgium)
		2				2	Radio-Cité (Paris) (France)		123	1.23	Pécs (Hungary) BOURNEMOUTH
6	38	470.2 12	Prague (No. 1) (Czechoslovakia)	1068	280.9	10	Tiraspol (U.S.S.R.)	1474	203.5		PLYMOUTH
		(10		1077	278.6	60	Bordeaux-Lafayette (France)	1487	201.7	0.1	Binche (Belgium)
	48:	463	Petrozavodsk (U.S.S.R.)	1086	276.2	2	Falun (Sweden)			0.2	Albacete (Spain)
6	58	455.9 10				{ 0.7 5	Zagreb (Yugoslavia) Madrid (EAJ7) (Spain)		001	0.1	Chatelineau (Belgium)
6	68	449.1 } 2		1095	274	10	Vinnitsa (U.S.S.R.)	1492	201.1	0.7	Nîmes (France)
		(/		1101	271 -	25	Kuldiga (Latvia)				Santiago (Spain)
	77 86	443.1 10 437.3 2		1104	271.7	10	Naples (Italy)	6			Wallonia (Belgium) Liége Experimental, Radio-
_	95	431.7 12		1113	269.5	100	Melnik (Czechoslovakia)			0.1	Cointe, Seraing, Verviers,
	04,	426.1 5				0.5	Alexandria (No. 1) (Égypt)	1500	200	1	Wallonia (Belgium)
	13	420.8 12	Rome (No. 1) (Italy)	1122	267.4		Nyíregyháza (Hungary)	1500	200 <		Pietersaari (Finland)
			Fredrikstad (Norway)		0	60	STAGSHAW (Newcastle)			0.2	Radio-Alcalá (Spain)
7	22	415.4		1131	265.3	100	Hörby (Sweden)	1520	104		Santander (Spain)
		1	land) (Relays Hilversum No. 2) Kharkov (U.S.S.R.)	1140	263.2	10	Genoa (No. 1) (Italy) Trieste (Italy)	1530 1734	196 173		Karlskrona (Sweden)
	- 1	-		1							Liepāja (Latvia)
	ALL	ADVERTIS	MENTS FOR "WORLD-RADIO" sl	rould be	addresse	d to the	Advertisement Director, BBC, 35.	Maryleho	one High	Street.	W.1.—Telephone: Welbeck 4468.

Short-Wave Programmes

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

† Gramophone Records	
# A second transmitter and aeri	
working on the same frequence	у.

SUNDAY, September 4 EMPIRE FREQUENCIES

GSA		6.05	Mc/s		49.59	m.
GSB		9.51	11		31.55	22
GSC		9.58	22		31.32	2.9
GSD		11.75	22		25.53	12
GSE		11.86	2.9		25.29	11
GSF		15.14	7.7		19.82	12
GSG		17.79	22		16.86	11
GSH		21.47	11		13.97	22
GSI		15.26	11		19.66	11
GSI		21.53	22		13.93	11
GSL		6.11	,,		49.1	12
GSN		11.82	2.3		25.38	2.3
GSO		15.18	22		19.76	12
GSP		15.31	,,		19.6	11
GST	***	21.55	,,		13.92	22
The	Em	nire	Progr	a m	mes	re

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

EMPIRE

Transmission 1 (GSE, GSI, GSO, GSD, GSB)
07.00—Big Ben; Service (Congregational)*
07.50—Piano Interlude.
08.00—"Chelsea."*
08.30—Marian Mendelson (Mezzo).
08.45-09.15—Newsletter, Sports

08.45-09.15 — Newsletter, Sports Summary. Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF) 11.45—Big Ben; BBC Empire Or-

11.45—Big Ben; BBC Empire Orchestra.
12.25—"Timothy Thimble's Boat,"
by Allan Aldous.*
13.00—Leslie England (Pfte.).
13.20—Operatic Duets.†
13.40—Service (C.E.).*
14.30—Big Ben; Newsletter, Sports
Summary.
14.50-15.00—Interlude.†

14.50-16.00—Interlude.7 Transmission 3 (GSI, GSH, GSG, GSG‡ until 17.00, GSF) 15.00—Big Ben; Michaeloff's Bess-arabian Orchestra.* 15.40—" Unusually Yours: " John

15.40—" Chusum, Rorke. 16.00—Loris Blofeld (Violin). 16.15—" Chelsea."* 16.45—Big Ben; Newsletter, Sports. Summary. 17.10-18.00—Service (Presbyterian).

Transmission 4 (18.20 - 22.00 GSG, GSI, GSD; 18.45-22.00 GSG‡; 19.30-22.00 GSB; 22.15-23.55 GSG, GSP, GSO, GSF,

18.20 Michael chestra.* 19.00 Big Ben; Newsletter, Sports

19.00—Big Ben; Newsletter, Sports Summary.

19.20—"Timothy Thimble's Boat," by Allan Aldous.

19.55— Service from Wesley's Chapel, City Road, London.

20.45—Talk on Jugoslavia.*

21.05-22.00—"Victorian Melodies."

22.15—Big Ben; Newsletter, Sports Summary.

22.35—"Chelsea."*

23.05—Talk: "Science and the Public."*

23.20—Sidney Crooke's Light Quartet.

Quartet. 23.45-23.55—Epilogue.*

23.45-23.56—Bpilogue.*

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

09.20—Service (Episcopal Church in Scotland).*

01.10—Roy Henderson (Baritone).*

01.40—Newsletter, Sports Summary.

02.00-02.30 — Big Ben; Chamber Music: Lener String Quartet.

Music: Lener String Quarter.

Transmission 6 (GSI, GSD, GSC, GSB)
03.20 — Service from Wesley's
Chapel, City Road, London.*
04.10 — Clive Richardson, René
Pougnet (Pftes.).
04.30—Big Ben; Newsletter, Sports
Summary.
04.50-05.20—Part Songs.*

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, 08.30—Music (European, Indian). 10.30-11.00—For Children,

BOSTON

(19.83 m.)
15.00-17.00—Chimes; First Church of Christ. Scientist. (49.67 m.)
00.00-01.45 (Mon.)—Sec 15.00.

BOUND BROOK

BOUND BROOK
(16.87 m.)

14.00—For Children,
15.00—Russian Melodies; Drama,
16.00—Melody Matinée; Sports,
17.30—Radio City Music-Hall,
18.30—News (It, Ger.); Music,
21.00—News (Fr.); Music,
22.00-02.00—For Latin America;
at 23.30—Canadian Grenadier
Guards' Band,
(49.18 m.)
02.00-06.00—For Latin America:
News and Music,

BUDAPEST

(19.52 m.) 15.00-16.00—Music; Poems; Folk-Songs; Talk (Eng.); Hungarian Dances; Notes; Anthem. (32.83 m.) 01.00-02.00—Sec 15.00.

CHICAGO

(49.18 m.) 18.30—Way down Home. 21.00—Sunday Vespers, 22.00—There was a Woman.

(31.28 m.; 60.06 m.) Programme not received.

(19.71 m.)
12.25—KRO Programme for Asia.
13.25-15.30—For the Dutch Indies.
13.25 — Anthem; Call; Talk;
News.
14.00—Report: The Naval Review

Report : The Naval Review

14.00—Report: The Naval Reviewal Scheveningen,
14.30-15.30—KRO Programme,
(31.28 m.)
19.25-19.40—VPRO Address for
South Africa,
20.00-21.00—KRO Programme for

Africa.
00.00-01.00—PHOHI Programme for the Western Hemisphere, 02.20-03,25—KRO Programme for Central and South America.

MEI ROURNE

MELBOURNE
(31.32 m.)
06.00 — With our Cricketers in England; Music.
07.15—BBC Hour; Music.
08.30—Children's Play; Music.
09.30—Talk; News; Music.
10.30—A.B.C. (Brisbane) Symphony Orchestra, Guest Conductor:
Malcolm Sargent.
11.30—Foreign Affairs.
11.50—" Hassan"—Part II.
13.00-13.30—Octet.

(31.35 m.) 17.30—Radio City Music-Hall. 02.30 (Mon.)—Walter Winchell.

MOSCOW

MOSCOW

(25 m.)

12.00—Talks, etc. (Eng., Ger.).

14.00—Talks, (Dutch, Fr.).

16.00—Talks, etc. (Eng., Ger.).

(19.89 m.)

19.00—Programme in German.

(25 m.)

22.00—Talks, etc. (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 English.

PARIS-MONDIAL

PARIS-MONDIAL

(19.68 m.)

12.00—News (Eng., Fr.); Music.

(19.68 m.; 19.83 m.)

15.00-16.00—Music or Play.

(25.24 m.; 31.51 m.)

16.15—News (Fr., Arab.); Music.

20.00—News (Eng., It.).

20.30—Music or Play.

22.30—Sports; News (Port.).

(25.24 m.; 25.6 m.)

00.00-02.15—Records; at 01.00—

News (Fr., Sp., Port.).

02.30—Records; at 03.15—News.

04.00—News (Eng.); Records.

04.03-05.00—Talk (Eng.); News

(Ger.).

PITTSBURGH

(13.93 m.)
12.00-Trails to Happiness.
(19.72 m.)
14.00-Variety; Music.
16.00-First Presbyterian Church.
17.00-Southernaires.

17.30—Radio City Music-Hall.
18.30—Melody.
19.00—Magic Key; Variety.
21.30—Vespers Shadyside Church.
22.40—Whitemore and Lowe.
22.15—Baseball Résumé; Songs.
22.45—News; Music; Sports.
23.30—A Tale of Today.
(25.26 m.)
00.00—Popular Classics.
00.30—Boredom by Budd.
01.00—Spy at Large.
01.30—Songs We Remember.
02.30—Win Your Lady.
02.30—Win Your Lady.
02.30—Walter Winchell.
02.45—Irene Rich.
03.00—You Don't Say.
03.30—Cheerio.
(48.83 m.)
04.00—Music; News.
04.15-06.00—Orchestras.

PODEBRADY

PODEBRADY
For Europe.
(25.34 m.; 25.51 m.)
19.55—Call; News; Music.
20.40—News (Ger.); Variety.
21.20—Foreign Affairs (Eng.).
21.30—Symphony in C (Schubert).
22.40—News (En.); Music.
22.30—News (Eng.).
22.45-23.10—Dvořák Music.

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—See 16.45.

REYKJAVIK

(24.52 m.) Programme not received.

ROME
(25.4 m.)
09.15—For Soldiers and Farmers.
11.00—Mass; News (Fr.).
12.00-14.45—News (Eng.); Concert;
Lecture-Recital; News.
16.00—News; Opera Music; News.
16.00—News; Opera Music; News.
18.10-19.00—Play, News, Music,
Talk (Arabic).
19.19—News (Eng.); Songs;
Humour; News (It., Ger.).
21.00—From Rome (No. 1).
23.30—News (Sp., Greek).
00.00—For Latin America: News.
(Sp.); Songs; News (Port.);
Pfte; Talk; News.
01.30-03.00—For U.S.A.: News
(Eng.); Opera; Talk; News.

SCHENECTADY

(13.95 m.)
16.00-17.00—News; Variety.
(19.57 m.)
17.15—Silver Strings; Music.
18.00—"Shakespeare's England"
—Drama.
18.30—Songs; At Fannie's.
19.30—Sunday Drivers.
20.00—Chautauqua Symphony Orchestra.

20.00—Chautauqua Symphony Orchestra.
(19.57 m.; 31.48 m.)
21.00—Serenade; Talk; Soprano.
22.30—Spy Secrets; R.C. Hour.
23.30—A Tale of To-day.
(31.48 m.)
00.00-05.00—For Latin America:
Variety; Music; at 00.30—
Baseball; at 03.30—Chicago
University Talk; at 04.30—News.
(31.4 m.)
00.15-04.00—For Latin America:
Music; News (Port.); Variety.

TOKIO TUNIU For Europe. (19.79 m.; 25.42 m.) 20.30—Call; News (Eng.). 20.45—Talk and News (Ger.). 21.15—Topical; Music. 21.35-22.00—News (Fr., Jap.).

(22 m.; 26.01 m.) 00.00—News (Pol. Eng.); Songs. 01.00 (Mon.)—For Children; Songs. 01.50-03.00—Talk (Eng.); Music.

(13.94 m.)
13.00—Organ; Music; Spotlight.
14.00—Organ; Strings.
14.55—News; Church of the Air.
15.30—Children's Programme.
16.30—Major Bowes' Family.
17.30-18.00—Choir and Organ.

(19.65 m.)

19.30—Music.
20.00—Columbia Symphony Orchestra, Conductor: Howard Barlow.
21.00—For Farmers.
21.30—CBC Singers from Toronto.
22.00—Texas Rangers.
22.30-23.00—Phil Cook's Almanac.
(25.36 m.)
23.30-4.00—For S. America,
23.30—The Laugh Liner.
00.00—The People's Platform.
00.30—Music; News (Sp.).
01.00-01.30—The World Dances.
02.00—Symphony Orchestra.
03.30-04.00—Headlines.
(49.02 m.)
04.30-05.30—For S. America.

ZEESEN

(19.85 m.)
12.00-14.00—Light Music.
(19.85 m.; 25.49 m.)
16.40—Call (Ger., Eng.); Music.
17.15—For Children.
(19.85 m.; 25.49 m.; 49.83 m.)
17.30 — "Sunday"; Greetings; 17.30 — "Sunday"; Greenings, Music. 18.15 — Max Dauthendey Pro-

18.15 — Max Dauthendry Flo-gramme. 18.45—News; Concert. 20.00—News (Eng.). 20.15—The Reich Congress in Stuttgart of Germans Abroad. 21.45-22.25—Sports; News (Ger.,

Eng.). (19.74 m.)
17.10-18.25—Symphony Concert. (19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Greetings.
23.00—For Children; Band.
23.45—News; "Sunday"; Concert.
(19.74 m.; 25.31 m.; 25.49 m.)
01.15—Sports: Chamber Music.

MONDAY, September 5

EMPIRE

Transmission 1 (GSE, GSI, GSO, GSD, GSB)

07.00—Big Ben; Talk on Yugoslavia.*

07.15—Scenes from "St. Helena,"
by R. C. Sherriff and Jeanne de
Casalis.*

08.00—BBC Empire Orchestra.
08.50-09.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF)

12.30—"Empire Exchange."

12.45—"The Waterman" and
"Our of Patiere"

12.30— Empire Exchange.

"Out of Patience." and
"Out of Patience."
13.30—BBC N. Ireland Orchestra:
William Broderick (Bass),
14.30—Big Ben; News.
14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡ until 17.00, GSF) 15.00—Big Ben; "Sweet Serenade." 15.30—Royal Dragoon Guards Band. 16.00—"Furniture - Making in

London."
16.30 — Reginald Dixon (Cinema

16.30 — Reginaid Diaon. Organ). 17.00—Big Ben; News. 17.20—Mr. Gillie Potter.* 17.30-18.00—Sonata Recital.

17.30-18.00—Sonata' Recital.

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

18.20—Chelsea.*

18.50—Keyboard Music.†

19.00—Big Ben; News.

19.20—Sheila Collins (Violin).

19.45—"Kings of the Keyboard."

20.00—"Furniture - Making in London."*

20.30—Variety.

21.15—"Looking Westward."*

21.45-22.00—"Empire Exchange."*

22.15—Big Ben; News.

22.35—"Kington Ewe Fair."*

22.35—"Kington Eye Fair."*

Transmission 5 (GSG, GSP, GSO, GSD, GSD, GSB) 00.20—"Looking Westward."* 00.50—BBC Empire Orchestra, 01.40—News. 02.00-02.30—Big Ben; Dance Music. 702.00-07.30—Big Ben; Dance Adusic.

Transmission 6 (GSI, GSD, GSC, GSB)

03.20 — "Steamboat:" variety, music, and drama.*

04.05—Max Pirani (Pfte.).

04.30—Big Ben; News.

04.50-05.20—" Furniture-Making in London."*

Arabic Transmission (GSP) 18.20-19.15

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

BOMBAY

London.

(31.41 m.) 03.30-04.30—Indian Music. 08.30—Markets; European Music. 09.30—Indian Music; Talk. 10.15-11.00—Play.

(19.67 m.) 23.00—Monitor views the News. (49.67 m.) 00.30—Dinner Music. (25.57 m.) 02.00-04.00—Spanish Programme. BOUND BROOK

BOSTON

BOUND BROOK

(16.87 m.)

14.00—Breakfast Club; Music.

16.05—Music; Notes; Talk.

18.00—News; Favourite Airs.

18.30—Words and Music.

19.00—News (It., Ger.); Music.

21.00 — News (It., Ger.); Rhythm;

Music.

22.00-02.00—For Latin America:

News and Music.

(49.18 m.)

02.00-06.00—For Latin America:

News; Music; at 02.30—"Tristan and Isolda" (Wagner).

CHICAGO

(49.18 m.)
22.15—Music Circle.
23.30—Sports Column.
06.05 (Tues.)—Dance Band.

HUIZEN (19,71 m.) For the Dutch Indies. 13.25—Anthem; Stocks; News. 14.10—Dutch Royal Anniversary: Arrival of Queen Wilhelmina at Amsterdam Station. 15.10—State Drive through Amster-

15.10—State Drive through.
dam.
16.10—Arrival at the Palace.
(31.28 m.)
20.00-21.00—For South Africa:
Recordings of the Royal Anniversary Celebrations.
01.00-02.30 — PHOHI Programme for the Western Hemisphere.

MELBOURNE

(31.32 m.)

03.25-08.00—News and Music.

09.30—Watchman; Music; News.

10.15—Foreign Affairs; Talks.

11.00—Radio Serial.

11.30—Military Band; Revue.

12.30—Music; Travel Letter.

13.30—News; Cricket Scores.

13.50-14.30—Records.

(31.35 m.) 23.45—Lowell Thomas.

MOSCOW

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

PARIS-MONDIAL

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng., Fr.); Music.
(19.68 m.; 19.83 m.)
14.30—Light Music; Songs.
15.55-16.00—Exchange; Metals.
(25.24 m.; 31.51 m.)
16.15—News (Fr., Arab); Music.
20.00—News (Eng., It.).
20.30—Music or Play.
22.30—Markets; News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Records; at 01.00—
News (Fr., Sp., Port.).
02.30—Records; at 03.15—News.
04.00—News and Talk (Eng.).
04.40-05.00—News (Ger.).

PITTSBURGH

PITTSBURGH

(13.93 m.)

11.45—Organ; Variety.
13.15—News; Variety.
(19.72 m.)

14.00—Variety.
16.15—Vic and Sade; Variety.
17.00—News; Harding's Wife.
17.30—Farm and Home; Variety.
19.45—Hymns of All Churches.
20.00 — Baseball Game — Pittsburgh v. Chicago; at 20.45 — News.
22.30—Don Winslow of the Navy.
22.35—Vour Movie Magazine.
23.00—News; Sports.
23.15—Ukrainian Youth League.
23.30—Daily Sports Column.
23.45—Lowell Thomas.
(25.26 m.)

00.00—Alias Jimmy Valentine.
00.30—Tap Time.
01.00—Sing Song.
01.30—Those We Love.
0.00—America's Rhythm Makers.
03.00—True or False.
03.30—Radio Forum.
(48.83 m.)
04.00—News; Music You Want.
05.00-06.00—Orchestras.

PODEBRADY PODEBRADY
For Europe.
(25.34 m.; 25.51 m.)
19.55—Call; News; Band.
20.40—News (Ger.); Music.
21.20—Foreign Affairs (Fr.); Symphony in A minor (Mendelssohn).
22.00—News (Fr.); Dance Music.
22.30—22.40—News (Eng.).
(31.41 m.)
22.45-23.10—Popular Music.

ROME (25.4 m.)
10.40—News, Music (Arabic);
News (Fr.); Music; Talk (Fr.).
12.00-14.45—News (Eng., Chin.);
Music; Talks; News.
16.00—News; Operetta Music;
Talks; Cetra Orchestra; News

Talks; Cetra Orchestra; News (Eng.):
17.15—Opera Music; News.
18.10—News, Music; Talk (Arabic).
19.19—News (Eng.); Pfte. Duo;
News (It., Ger.).
21.00—From Rome (No. 1).
21.10—From Turin (No. 1).
23.30—News (Sp.); Greek).
00.00—For Latin America: News (Sp.); Violin Concerto (Tchaikovsky); News and Italian Lesson (Port.); News.
01.30-03.00—For U.S.A.: News (Eng.); Folk Songs; Talk; Mail; Humour; News.

SCHENECTADY

(13.95 m.)

14.40-17.00—News; Music.
(19.57 n.)

17.15—Intermezzo.

17.30—Farm Programme.

18.00—News; Variety.

20.00—U.S. Travel Talk (Fr.).

20.15—U.S. Navy Band.

20.30 — Sports (Ger.); Counterpoint.

20.30 — Sports (Ger.); Counterpoint.
(19.57 m.; 31.48 m.)
21.00—Dance Hour; Music.
22.00—American News Tower.
22.15—Church in the Wildwood.
22.30—U.S. Travel; Music.
23.25—News; Orchestra.
(31.48 m.)
90.00—50.00—For Latin America:
Music; Talks; News; at 01.00
—Latin-American Concert.
(31.4 m.)

(31.4 m.) 00.15-04.00—For Latin America: Music; News, Talk (Port.); Variety.

TOKIO

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

WARSAW

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.). 00.15 (Tues.)—Talk (Eng.); Music. 01.20-03.00—Poems; Music; Notes. WAYNE

(13.94 m.)
12.30—Phil Cook's Almanac.
12.55-15.00—News; Music.
(19.65 m.)
18.00—Music; at 18.30—News
Stocks; and at 20.00—Mail.
21.00—Patterns in Swing; Songs.
22.00—Headlines and Bylines.
22.30—Dance Music.
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.
23.30—Summer Serenade.
23.45—News (Port.); Songs.
00.15 — American Viewpoints; Music. (Sp.); Variety. 02.00—The Mercury Theatre. 03.00—Dance Music. 03.30—03.45—Del Casino (Songs).

(49.02 m.) 04.30-05.30 — For S. America Dance Music.

ZEESEN ZEESEN
(19.85 m.; 25.49 m.)
16.40—Call (Ger., Eng.); Music.
17.15—Folk Music.
(19.85 m.; 25.49 m.); 49.83 m.)
17.45—Greetings; Concert.
18.15—Folk Music; Talk; News.
19.00—Reich Party Congress; at
20.00—News (Eng.); Talk.
22.00—22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50 — Call (Ger., Eng.); FolkMusic.
23.45—News; Music; Talk.
(19.74 m.; 25.31 m.; 25.49 m.)
01.15—News (Eng.); Reich Party
Congress.

Congress.

TUESDAY, Sept. 6

EMPIRE
Transmission 1 (GSE, GSI, GSO, GSD, GSB)
07.00—Big Ben; Variety.*

08.00—" Empire Exchange."*
08.15—Cuthbert Matthews (Baritone); Aileen Bransden (Organ).
08.50-09.15—News.

08.50-09.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG\$\frac{\pmathcal{G}}{\pmathcal{G}}\$ (GSJ, GSH, GSG)

11.45 — Big Ben; Tom Jenkins (Ginema Organ).

12.45—"Clothes and the Man!"

12.45—Mr. Gillie Potter.*

12.45—Jack Hill's Music.

13.15—Talk: "Science and the Public."

13.30—"Victorian Melodies."*

14.30—Big Ben; News.

14.50-15.00—Interlude.†

Transmission 3 (GSI GSH)

Transmission 3 (GSJ, GSH, GSG, GSG‡ until 17.00, GSF) 15.00—Big Ben; "Looking Westward" ward "*

15.00—Big Ben; Lookaig Wes-ward." Monologues in Melody. 15.50—" Mendelssohn in England:" musical biography.* 17.00—Big Ben; News. 17.20—Pipe Music.† 17.30-18.00—The Alcor Trio.

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

(00.00 GSG, GSB) (GSB) 18.20—The Philharmonic Ensemble. 19.00—Big Ben; News. 19.20—Quentin Maclean (Cinema

Organ). 19.45—Selections from "Band Waggon."
20.30—"Isle of Man Nights."
21.30-22.00—" Clothes and Man."*

Man."

22.15—Big Ben; News.

22.35—BBC Theatre Orchestra.

23.15—Organ Music by Bach.†

23.35-00.00 — "The Twilight
Serenaders."

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

00.20—"Topics of the Day."

01.30—Mr. Gillie Potter."

01.40—News.

02.00-02.30—Big Ben; William Primrose (Viola).

Transmission 6 (GSI, GSD, GSC, GSB) 03.20—Talk: "Science and the Public."* 03.35—Constance Felpts (Contralto) 03.50—Michaeloff's Bessarabian Or-

chestra.*

04.30—Big Ben; News.

04.50-05.20—" Clothes and Man."*

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.
08.30—Markets; European Music.
09.30—Orchestra; Songs.
10.00-11.00—Talk; Indian Music.

ROSTON

(25.45 m.)
20.00—Baseball; Music.
22.30—Goodwill to Scandinavia.
22.55—URSIgram; Science.
23.00—Monitor views the News.

BOUND BROOK

(16.87 m.)

14.00—Breakfast Club.
15.00—"The Pirates of Penzance" (Sullivan); Music.
16.00—Wagner Opera Music.
16.45—Music; Notes; Talk.
18.00—News; Favourite Airs.
18.30—Words and Music.
19.00—News (It., Ger.); Music.
20.45—U.S., Army Band.
21.00—News (Fr.); Rhythm; Music. Music.
22.00-02.00—For Latin America
News and Music.
(49.18 m.)
02.00-06.00—For Latin America
News and Music.

CHICAGO

(49.18 m.) 22.00—The Four of Us. 06.05 (Wed.)—Dance Band.

HUIZEN

(19.71 m.) 06.00-08.00—Happy Programme for 06.00-08.00—Happy Programme for Australasia.
10.10—Dutch Royal Anniversary: Music from the Nieuwe Kerk, Amsterdam.
10.30—The Royal Family on their way to the Nieuwe Kerk.
10.40—National Thanksgiving Service from the Nieuwe Kerk.
13.25—Anthem; Call; News.
13.40—Music and Reports of the Festivities throughout Holland; at 14.00—VPRO Address.
14.40 — National Homage at the "Dam," Amsterdam.

(31.28 m.) 19.45—VPRO Talk for S. Africa. 20.00-22.00 — For S. Africa: National Thanksgiving Service and National Homage (Recordings). .00-04.15 — PHOHI Programme for the Western Hemisphere.

MELBOURNE

(31.32 m.)
03.25—Stocks; Music; News,
04.30-08.00—Science; Music.
09.30—Watchman; Talk; Music.
11.05—Richard Tauber; Music.
12.10—Guila Bustabo (Violin).
13.00—Talk; Dance Band.
13.30—News; Cricket Scores.
13.50-14.30—Dance Music.

(31.35 m.) 14.00—Breakfast Club. 23.30—Sports Column.

MOSCOW

MOSCOW
(25 m.)
12.00 and 18.15—Talks (Ger.).
21.30—Talks, etc. (Ger., Dutch).
23.00—Programme in Portuguese.
(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

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng., Fr.); Music.
(19.68 m.; 19.83 m.)
14.30—"France"—Play (Riollet).
15.55-16.00—Exchange; Metals.
(23.24 m.; 31.51 m.)
16.15—News (Fr., Arab); Music.
20.00—News (Eng., It.).
20.30—Music or Play.
22.30—Markets; News (Port.).
(23.24 m.; 25.6 m.)
00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.); Tall (Sp.).

(Sp.). 02.30—Records; at 03.15—News 04.00—News; Talk (Eng.); F cord. 04.40-05.00 News (Ger.).

PITTSBURGH

PITTSBURGH

(13.93 m.)

11.45—Farm Markets; Variety.

13.15—News; Variety.

(19.72 m.)

14.00—Variety.

16.13—Vic~and Sade; Variety.

17.00—News; Harding's Wife.

17.30—Farm and Home; Variety.

19.45—Hymns of All Churches.

20.00—Home Forum; Variety.

20.30—U.S. Army Band.

21.00—News; Club Matinée.

22.00—The Four of Us; Baseball.

22.30—Don Winslow of the Navy.

23.45—Lowell Thomas.

(25.26 m.)

00.00—Easy Aces; Mr. Keen.

00.30—Time Out for Fun.

01.00—Accent on Brass.

01.30—Information Please.

02.00—Federal Symphony Orch.

02.30—NBC Jamboree.

03.30—NBC Jamboree.

03.30—Tenor; State of Nation.

(48.83 m.)

04.00—News; Music You Want.

05.00—06.00—Orchestras.

(48.83 m.) 04.00—News: Music You Want. 05.00-06.00—Orchestras.

PODEBRADY

PODEBRAD FOR Europe. (25.34 m.; 25.51 m.)
19.55—Call; News; Music; at 20.40—News (Ger.), and 21.20—Talk. 22.00—News (Fr.); Folk Songs. 22.30—22.40—News (Eng.). (31.41 m.) 22.45-23.10—Light Music.

ROME

ROME

(25.4 m.)

10.40—News, Music (Arabic); News
(Fr.); Music; Talk (Fr.)

12.00-14.45—News (Eng.); Music;
Talks (Jap., It.); News.

16.00—News; Concert; News
(Eng.); Dance Music; News.

18.10—News, Music, Talk (Arabic).

19.01—Talk and News (Eng.).

19.37—Music; News (It., Ger.).

21.00—From Turin (No. 1).

23.30—News (Sp., Greek).

00.00—For Latin America: News
(Sp.); Opera; Talk; News
(Port., It.). (Sp.); Opera; Talk; (Port., It.). 01.30-03.00—For U.S.A.; (Eng.); Concert; News.

SCHENECTADY

(13.35 m.)
14.55-17.00—News; Music,
(19.57 n.)
17.15—Intermezzo.
17.30—Farm Programme.
18.00—News (Eng., It.); Music.
19.15—New World Salute; Music.

20.00—News (Ger.); Variety, 20.30—U.S. Army Band. (19.57 m.; 31.48 m.) 21.00—Dance Hour; Variety, 22.00—News Tower; Harmony 22.00—News Toker; Hall.

22.30—Mail; Science; Trio.

23.25—News; Baritone.

23.25—Nola Day (Songs).

(31.48 m.)

00.00-05.00—For Latin America.

00.00—Bnglish Lessons (Sp.).

00.15—Vocal Varieties.

00.30 — Stocks; News (Sp.); Variety.

03.30—As I see It (Sp.); Organ.

04.00—Orchestras.

(31.4 m.) (31.4 nr.) 00.15-04.00—For Latin America; News (Port.); Variety; at 02.30 —Jamboree.

TOKIO TORIO
For Europe.
(19.79 m.; 25.42 m.)
20.30—Call; News (Eng.); Talk;
Children's Songs.
21.05—News (Ger.); Violin.
21.35-22.00—News (Fr., Jap.).

(22 m.; 26.01 m.) 90.00—News (Pol., Eng.); Music. 90.50-03.00 (Wed.)—Polish Music; at 01.20—Talk (Eng.).

WAYNE

WAYNE
(13.94 m.)
12.30—Phil Cook's Almanac,
12.55-15.00—News; Music.
(19.65 m.)
18.00-19.30—Music; at 18.30—News; Stocks.
20.000—Popular Music; Variety.
21.00—Health Talk; Music.
22.00—Columbia Concert Orchestra with Hollace Shaw,
22.30—Dance Music.
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.
23.30—Popular Music.
23.45—News (Port.); Songs.
00.15—Hollywood Screenscoops.
00.30—Popular Music; News (Sp.).
01.00—Four Corners Theatre.
01.30—Jack Berch's Boys.
02.00—Grand Central Station.
02.30—Benny Goodman's Band.
03.00—Time to Shine.
03.30—For Women (Sp.).
03.45-04.00—Popular Music.
(49.02 m.)
04.30-05.30—For S. America:
Dance Music.

ZEESEN
(19.85 m.; 25.49 m.)
(19.85 m.; 25.49 m.)
(19.85 m.; 25.49 m.; 49.83 m.)
17.30—Concert.
18.45—News; Talk.
22.00—News (Eng.); Talks.
22.00—22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); Music.
23.45—News; Light Music.
(19.74 m.; 25.31 m.; 25.49 m.)
01.15—News (Eng.),
01.30—Reich Party Congress.

WEDNESDAY, Sept. 7 EMPIRE

Transmission 1 (GSE, GSI, GSO, GSD, GSB) 07.00—Big Ben; Talk: "Science and the Public."*
07.18—Dvořák's Chamber Music.
07.50—"Furniture - Making in London."* London."*
08.20—Roy Henderson (Baritone).*
08.50-09.15—News,

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF) 11.45—Big Ben; "For Sailors." 12.00—Aston Hippodrome Orches-

tra.
12.30 - "Furniture - Making in London."
13.00-Variety *
14.00-Victor Olof Sextet.*
14.30-Big Ben; News.
14.50-15.00-Interlude.†

14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG\$\(^2\) until 17.00 GSF)
15.05—The St. Leger.
15.25—BBC Empire Orchestra:
Arnold Goldsbrough (Organ),
16.00—Twilight Serenaders.*
16.50—Variety.
17.00—Big Ben; News.
17.20—Leslie England (Pfte.).*
17.40-18.00—"World Affairs."

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

OO.00 GSG, GSP, GSO, GSF GSB) 18.20—The St. Leger.* 18.40—Erith British Legion Band.

19.00—Big Ben; News.
19.20 — "The Twilight Serenaders,"*
19.40—"World Affairs."*
20.00—From the Promenade Concert at Queen's Hall, London,
21.15-22.00—"The Waterman."*
22.15—Big Ben; News,
22.35—John Pauer (Pfte.),
23.00—Dance Music,
23.30—Mr, Gillie Potter.*
23.40-00.00—"World Affairs."*
Transmission 5 (GSG, GSP, Transmission 5 (GSG, GSP, GSO, GSD, GSB) 00.20—" Empire Exchange."* 00.35—" Unusually Yours: " John 00.20—Empire Exchange.
00.35—' Unusually Yours:'' John
Rorke.*
01.53—The St, Leger.*
01.15—Sandy Macpherson (BBC
Theatre Organ).
01.40—News.
02.00-02.30—Big Ben; The Barrington Quartet..
Transmission 6 (GSI, GSD, GSC, GSB)
03.20—' World Affairs.''*
03.35—BBC Empire Orchestra.
04.30—Big Ben; News.
04.50-05.20—Dance Band.
Arabie Transmission (GSP)
18.20-19.15.
Spanish and Portuguese News Spanish and Portuguese News (GSO, GSB) 02.30-03.00.

BOMBAY

(31.41 m.).
03.30-04.30—Indian Music.
08.30—Markets; European Music.
09.30—Orchestra; Songs.
09.50—Indian Music; Talk.
10.15-11.00—Indian Music.

(19.67 m.)

22.30—World Affairs; Music,
23.00-23.30—Monitor News,
(49.67 m.)

00.30—Dinner Music,
01.00 - 01.45 — L'Heure Sym-01.00 - 07.45 phonique. (25.57 m.) 02.00-04.00—Spanish Programme.

BOUND BROOK

(16.87 m.)

14.00—Breakfast Club; Music,

17.15—Notes; Music; Talk,

18.00—News; Favourite Airs,

18.30—Words and Music,

19.00—News (It., Ger.); Music,

21.00—News (Fr.); Rhythm; 21.00 — News (Fr.); Rhythm; Music.
22.00-02.00—For Latin America: News and Music.
(49.18 m.)
02.00-06.00—For Latin America: News and Music.

BUDAPEST

(32.88 m.) 01.00 - 02.00 (Thurs.) — Music; Variety; News; Anthem.

CHICAGO

(49.18 m.) 22.45—Middleman's Orchestra. 23.30—Sports Column. 06.05 (Thurs.)—Dance Band.

HUIZEN

HUIZEN
(19.71 m.)
13.00—Anthem; Call.
13.05—Dutch Royal Anniversary:
Youth's Homage to Queen Wilhelmina.
13.30—Stocks; News.
13.30—Pictures from the State Ball (Recorded); Aviation Display at Schiphol; Royal Drive through Amsterdam.
14.10—Serenade at the "Dam," Amsterdam.
(31.28 m.)
20.00-21.30—PHOHI Programme for South Africa.
01.00-03.00—PHOHI Programme for the Western Hemisphere; at 02.00-02.15—VPRO Address.

MELBOURNE

(31.32 m.)
(31.32 m.)
(32.5—Stocks; Music; News.,
04.30-08.15—Music, Racing.,
09.30—Watchman; Music; News.,
10.40—Talks; Music,
13.30-14.30—News; Records.

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

MOSCOW

MOSCOW
(25 m.)
12.00 and 18.15 — Talks (Ger.);
at 12.30—Talks (Eng.).
21.30—Talks, etc. (Ger.); at 22.00
—Talks (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 French.
04.15—Programme in English.

PARIS-MONDIAL

(19.68 m.) 12.00—News (Eng., Fr.); Music. (19.68 m.; 19.83 m.) 14.30 — Symphony Orchestra, 14.30 — Symphony Orchestra, Violin.
15.55-16.00—Exchange; Metals.
(25.24 m.; 31.51 m.)
16.15—News (Fr., Arab.); Music.
20.00—News (Eng., It.).
20.30—Music or Play.
22.30—Markets; News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Talk; Records; at
01.00—News (Fr., Sp., Port.).
02.80—Records; at 03.15—News.
04.00—News (Eng.); Records.
04.40-05.00—News (Ger.).

PITTSBURGH
(13.93 m.)

11.45—Farm Markets; Variety.

13.15—News; Variety.
(19.72 m.)

14.63—Variety.

17.09—News; Harding's Wife.

17.30—Farm and Home.

18.45—Voice of the Farm.

18.45—Variety.

20.00—KDKA Home Forum;

Music.

20.45—News Reeler.

21.00—Baseball Game—Cincinnativ.

Pittsburgh.

22.30—Don Winslow of the Navy.

22.45—Your Movie Magazine,

23.00—News; Sports; Music.

23.45—Lowell Thomas.
(25.26 m.)

00.00—Easy Aces; Mr. Keen.

00.30—Let's Celebrate.

00.45—James Melton.

01.00—Roy Shield's Revue.

01.30—Silhouette in Blue.

02.00-02.30—It May Have Happened.

33.30—NBC Minstrels. PITTSBURGH

02.00-02.30—It May Flate pened. 03.30—NBC Minstrels. (48.83 m.) 04.00—News ; Music You Want, 05.00-06.00—Orchestras.

PODEBRADY

FOF EUROPE. (25.34 m.; 25.51 m.) 19.55—Call; News; Band. 20.46—News (Ger.); Songs. 21.20 — Talk (Eng.); Mozart 20.40—News (Ger.); Surgart 21.20 — Talk (Eng.); Mozart Music. 22.00—News (Fr.); Dance Music. 22.30-22.40—News (Eng.). (49.75 m.; 49.92 m.) 22.45-23.10—Light Music.

ROME

ROME
(25.4 m.)
10.40 — News, Music (Arabic);
News (Fr.); Opera; Talk (Fr.).
12.00—News (Eng.); Music; News.
13.30-14.45—Talks; Songs; News.
16.00—News; "André Chénier"
(Giordano); News (Eng.); Concerto (Boccherini); News.
18.10—News, Music, Talk (Arabic).
19.01—Talk in German.
19.19 — News (Eng.); Opera Music; News (Ir., Ger.).
21.00—From Turin (No. 1).
23.30—News (Sp., Greek).
00.00—For Latin America: News; Songs & Brazil National Festival; News (Port., Ir.).
01.30-03.00—For U.S.A.: News (Eng.); Music; Talk (Eng.); News.

SCHENECTADY

SCHENECTADY
(13.95 m.)
14.40-17.00—News; Music.
(19.57 m.)
17.15—Intermezzo.
17.30—Farm Programme.
18.00—News; Music.
19.00—News (Mt.); Crystal Tones.
19.30—Literature; Waltzes.
20.00—News (Ger.); Folk Music.
20.30—Lights and Shadows; Music.
(19.57 m.; 31.48 m.)
21.00—Dance Hour; Music.
21.30—Matinée Melodies.
22.00—News Tower; Variety.
33.00—Organ; Rolini Trio.
23.25—News; Alma Kitchell.
(31.48 m.)
60.00—65.00—For Latin America.
60.00—Music; Uncle Ezra.
60.00—Music; Uncle Ezra.
60.30—Town Hall Big Game Hunt.
60.30—For Men Only.
60.00—Orchestras.
(31.4 m.)
60.15—Musical Class and Dance.
60.15—Musical Class and Dance.
60.15—Musical Class (Port.).
60.30—Tenor; News (Port.).
60.30—Tenor; News (Port.).
60.30—Tenor; News (Port.).
60.30—Tenor; News (Port.).
60.30—Mational Music Camp.
62.30—National Music Camp.
62.30—National Music Camp.
62.30—National Music Camp.

TOKIO

For Europe.
(19.79 m.; 25.42 m.)
20.30—Call; News (Eng.); Choir.
21.05—News (Ger.); Talk (Fr.);
Shakuhachi Solo.
21.35-22.00—News (Fr., Jap.).

WARSAW

(22 n.; 26.01 m.) 00.00—News (Pol., Eng.); Songs. 01.00 - 03.00 (Thurs.) — Music Reading; Programmes.

WAYNE

(13.34 m.)

12.30—Phil Cook's Almanac,

12.55-15.00—News; Music.

(19.65 m.)

18.00—Music; at 18.30—News,

19.30—"The Fair at Sorochintsy"

(Mussorgsky).

20.30—Music; Variety.

22.30—Benny Goodman Programme.

23.30—23.05—News; Stocks.

(25.36 m.)

23.39—40.00—For S. America.

33.30—Doris Rhodes (Songs).

23.45—News (Port.); Songs.

00.15—Pfte.; Sketch.

00.45—News (Sp.); Sketch.

01.30—Paul Whiteman's Orchestra.

02.00—"Meet the Champ."

02.30 — Warnow's Blue Velvet

Music.

03.00—The Word Game.

03.00—The Word Game.

03.00—The Word Game.

(49.02 m.)

(49.02 m.) 04.30-05.30 — For S. America: Dance Music,

ZEESEN

ZEESEN
(19.85 m.; 25.49 m.)
16.40—Call (Ger., Eng.); Music,
(19.85 m.; 25.49 m.; 49.83 :n.)
17.45—Greetings; Concert; Talk.
18.45—News; Reich Party Congress,
20.00—News (Eng.); Topical.
20.30—Press; Reich Party Congress,
22.03-22.25—News (Ger., Eng.),
(19.74 m.; 25.49 m.)
22.50—Call (Ger., Eng.); "Happy
Family."
23.15—Horn Quintet.
(19.74 m.; 25.31 m.; 25.49 m.)
01.15—News (Eng.),
01.30—Reich Party Congress.

THURSDAY, Sept. 8

EMPIRE

Transmission 1 (GSE, GSI, GSO, GSD, GSB) 07.00—Big Ben; "World Affairs."* 07.15—" Victorian Melodies."* 08.10—The St. Leger.* 08.30—Bach: James Walker (Pfte.). 08.50-09.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG±, GSF) 11.45 — Big Ben; BBC West of England Singers. 12.15 — "Men Who Make the 12.15 — "Men Who Make the Shows."*
12.35—Scots Concert.
13.00 "World Affairs."*
13.15—Philip Martell's Orchestra.
14.15—Eric Shrimpton (Electric Guitar), 14.30—Big Ben; News. 14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG\(^2\) until 17.00, GSF) 15.00\(^2\) Big Ben; Short Story. 15.15\(^2\) BEC Orchestra.\(^2\) 16.15\(^2\) "Steamboat:" variety, music, and drama. 17.00\(^2\) Big Ben; News. 17.20\(^2\) For listeners in India. 17.35\(^2\) 18.00\(^2\) The Westminster Players.

Players.

Transmission 4 (18,20-22,00 GSG, GSI, GSD, GSG‡ from 18.45; 19.30-22.00 GSB; 22.15-00.00 GSG, GSP, GSD, GSF, GSB)

18.20—Hanwell Silver Band.

19.00—Big Ben; News.

19.00—Eight Orchestral Music.†

19.30—Students' Songs.

20.00—From the Promenade Concert at Queen's Hall, London.

21.05—"Jane Austen in the West."

21.40-22.00—Variety.

22.15—Big Ben; News.

22.35—Operatic programme.

23.35-00.00—Topical talks.

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

00.20—Brahms' Chamber Music,

00.50 — "Jane Austen in the West."

01.25—Walter Glynne (Tenor),

01.40—News.

02.00-02.30—Big Ben; Falkman's Apache Band.

Transmission 6 (GSI, GSD, GSC, GSB) 03.20—Topical Talks.* 03.40—Students' Songs.* 04.10—Leslie England (Pfte.).* 04.30—Big Ben ; News. 04.50—Harold Fielding (Violin). 05.05-05.20—"For Sailors."*

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, 08.30—Marke's; European Music, 09.30-11.00—Indian Music; Talk.

(25.45 m.)
20.00-Baseball Game.
22.00-L'Heure Symphonique,
22.55-URSIgram; Science,
23.00-Monitor views the News.

BOUND BROOK

(16.87 m.)
14.00—Breakfast Club,
15:00—"The Pirates of Penzance"
(Sullivan); Music.
16.00—"Tristan and Isolda" (Sullivan); Music.

16.00 — "Tristan and Isolda"
(Wagner).

16.45—Music; Notes; Talk.

18.00—News; Favourite Airs.

18.30—Words and Music.

19.00—News (It., Ger.); Music.

21.00—News (Fr.); Rhythm; 21.00—News (Fr.); Music.
22.00-02.00—For Latin America
News and Music.
(49.18 m.)
02.00 05.00—For Latin America
News and Music.

CHICAGO

(49.18 m.) 22.30—Davies (Baritone). 23.45—Dinner Concert.

HUIZEN

HUIZEN
(19.71 m.)
13.25—Anthem; Call; News.
13.50—Dutch Royal Anniversary:
Music and Reports of the Festivities throughout Holland; at
14.10-14.25—VPRO Talk.
15.40—Report: Launching of the
m.s. "Oranje" by Queen Wil-

MELBOURNE

(31.32 m.)
03.25-08.00—Music and News.
09.30-Watchman; Music; News.
11.00—Play; Music,
12.10—Guila Bustabo (Violin).
13.00—Foreign Affairs; Music.
13.30-14.30—News; Records.

(31.35 m.) 14.00—Breakfast Club. 22.10—News. 23.30—Sports Column.

MOSCOW

(25 m.)
12.00 and 18.15—Talks (Ger.).
21.30—Talks, etc. (Ger., Fri.).
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

PARIS-MONDIAL
(19.68 m.)
12.00—News (Eng., Fr.); Music.
(19.68 m.; 19.83 m.)
14.30—Chamber Music, Songs.
15.45-16.00—Pfte.; Exchange.
(25.24 m.; 31.51 n.)
16.15—News (Fr., Arab); Talk;
Records and Poems,
20.00—News (Eng., It.)
20.30—Music or Play.
22.30—Music or Play.
22.30—Markets; News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Records; at 01.00 —
News (Fr., Sp., Port.).
02.30—Records; at 03.15—News.
04.00—News (Eng.); Talk.
04.45-05.00—News (Ger.).

PITTSBURGH

(13.93 m.)

11.45—Farm Markets; Variety.
13.15—News; Variety.
(19.72 m.)

14.00—Variety.
16.15—Vic and Sade; Variety.
17.00—News; Harding's Wife.
17.30—Farm and Home; Variety.
19.45—Hymns of All Churches.
20.00—Home Forum; Light Opera.
20.30—Grand Slam Revue.
21.00—Club Matinée.
22.00—22.15—The Four of Us.
22.30—Don Winslow of the Navy.
22.45—Movie Magazine.
23.00—News; Sports; Music.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Easy Aces; Mr. Keen.
00.30—Let's Celebrate; Songs.
01.00—Variety.
01.30—Festival of Music.
02.00—Toronto Symphony Orch.
02.30—Baseball Game—Cincinnati
0. Pittsburgh.
(48.83 m.)
04.00—News; The Music You
Want.
05.00-06.00—Orchestras. PITTSBURGH

PODEBRADY

For Europe. (25.34 m.; 25.51 m.) 155—Call; News; Music. 20.40—News (Ger.); Dance Music. 21.05—Orchestra; at 21.20—Talk

21.05—Orenestra; at 21. (Eng.). 22.00—News (Fr.); Songs. 22.30-22.40—News (Eng.). (49.75 m.; 49.92 m.) 22.45-23.10—Concert.

(25.4 m.)
10.40—News, Music (Arabic).
11.00—News, Talk (Fr.); Music.
12.00-14.45—News (Eng.); Music;
Talks; News.
16.00—News; Folk-Songs; News 12.00-14.45—News (Eng.); Music; Talks; News. 16.00—News; Folk-Songs; News (Beng., Eng.). 17.15—"Aida" (Verdi); News. 18.10—News, Music, Talk (Arabic). 19.01—Talk (Czech). 19.01—Talk (Czech). 19.19—News (Eng.); Music; News. 20.36—News. Talk (Ger.). 21.00—From Turin (No. 1). 23.30—News (Sp., Greek). 00.00—For Latin America: News (Sp.); Music; News. (Port.); Italian Lesson (Sp.); News. 01.30.00—For U.S.A.; News. (Eng.); Opera Music; Talk; News.

SCHENECTADY

SCHENECTADY
(13.95 m.)
13.00—Children's Stories; Variety.
16.00—Melody Matinée.
16.45-17.00—Viennese Ensemble.
(19.57 m.)
17.15—Intermezzo.
17.30—Farm Programme.
18.00—News; Variety.
19.00—News (Tt.).
19.15—American Portraits; Music.
20.00—News (Ger.); Light Opera.
20.30—Variety.
(19.57 m.; 31.48 m.)
21.00—The Dance Hour; Variety.
22.15—Harmony Hall; Science.
23.00—George R. Holmes, commentator.
23.15—Laura Suarez (Soprano).
23.25—News; Tune Twisters.
23.45—Nina Dean (Soprano).
(31.48 m.)
00.00—Os.00—For Latin America.
00.00—News (Sp.); Songs.
00.50—News (Sp.); Songs.
00.50—News (Sp.).
01.00—Rudy Vallee.
02.00—Toronto Symphony Orchestra.
03.00—Bing Crosby.

tra. 03.00—Bing Crosby. 04.00-05.00—Sports; Orchestras. (31.4 m.) 00:15-04.00—For Latin America: Songs, News, etc.; at 02.00-03.00—Toronto Symphony Orchestras

chestra.

For Europe.
(19.79 m.); 25.42 m.)
20.30—Call; News (Eng.); Talk
(Eng.); Kagura Music.
21.05—News (Ger.); Music.
21.35-22.00—News (Fr., Jap.).

WARSAW

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.); Music. 02.00-03.00 (Fri.)—Chopin Music.

WAYNE
(13.94 m.)
12.30—Phil Cook's Almanac.
12.45-15.00—News; Music.
(19.65 m.)
18.00—Music; at 18.30—News.
19.30—Southern Cruise.
20.00—U.S. Army Band.
20.30—Ray Block's Varieties.
21.00—Music; at 21.45—Books.
22.50-23.00—News; Stocks.
(25.36 m.)
23.30-04.00—For S. America.
23.30—Music; at 23.45—News
(Port.),
00.15—Hollywood Screenscoops.
09.30—Songs; News (Sp.),
01.30—Men against Death.
02.00—Major Bowes' Amateurs.
02.00—Major Bowes' Amateurs.
03.00—Columbia Concert Orchestra. Conductor: Victor Bay.
03.00—Columbia Concert Orchestra. Conductor: Victor Bay.
03.00—For Women; Music.
(49.02 m.)
04.30-05.30—For S. America:
Dance Music.

ZEESEN
(19.85 m.; 25.49 m.)
16.40—Call (Ger., Eng.); Music.
17.15—Character Studies.
(19.85 m.; 25.49 m.; 49.83 m.)
17.30—Pfte. Sonata (Welter).
17.45 — Greetings (Afrikaans); Concert

17.45 — Greetings (AITIRGAIRS); Concert. 18.15—Organ. 18.45—News; Reich Party Congress; at 20.00—News (Eng.); Topical. 22.00-22.25—News (Ger., Eng.). (19.74 m.; 25.49 m.) 22.50—Call (Ger., Eng.); Variety.

23.45—News; Organ; Character Studies; Pfte. Sonata (Welter). 01.00—Talk (Eng.). (19.74 m.; 25.31 m.; 25.49 m.) 01.15—News (Eng.); Reich Party Congress.

FRIDAY, September 9

EMPIRE

EMPIRE
Transmission 1 (GSE, GSI, GSO, GSD, GSB)
07.00—Big Ben; "For Sailors."*
07.15 — "Steamboat: " variety, music, and drama.*
08.00—Jane Austen.*
08.40—"Next Week's Programmes."
08.50-09.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF)
11.45—Big Ben; "Jane Austen in the West."*
12.20—Dance Music.
12.55—"Under Big Ben."
13.15—"George Edwardes."*
14.20—"Next Week's Programmes."
14.30—Big Ben; News.
14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡ until 17.00, GSF) 15.00—Big Ben; Variety.* 16.09—" Under Big Ben.'**
16.15—Winifred Small (Violin). 16.35—" Man from Outside," by L. Charles Douthwaite.
17.00—Big Ben; News.
17.30-18.00—Students' Songs.*

17.30-18.00—Students' Songs."

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

18.20—Bernard Crook Quintet, 18.45—Ernest Frank (Baritone).

19.00—Big Ben; News.

19.20—"Next Week's Programmes."

19.30 — "Steamboat:" variety, music, and drama.*

20.15—Topical talks.*

20.15—BBC Empire Orchestra: Noel Eadie (Soprano).

21.35-22.00—"Man from Outside," by L. Charles Douthwaite.*

22.15—Big Ben; News.

22.35—"Under Big Ben."*

22.35—"Under Big Ben."*

22.35—"George Edwardes."*

23.50-00.00—"Next Week's Programmes."

Transmission 5 (GSG, GSP,

grammes.

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

00.20—Talk on Romania.*

00.35 — Walford Hyden's Café
Colette Orchestra.

01.15—George Parker (Baritone).

01.30—"Next Week's Programmes."

01.40—News.

02.00-02.30—Big Ben; Myra Hess
(Pfte.).

Transmission 6 (GSI, GSD, GSC, GSB)
03.20—"George Edwardes."*
04.20—"Next Week's Programmes."
04.30—Big Ben; News.
04.50—Marie Goossens (Harp).
05.05-05.20—"Under Big Ben."*

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. 08.30—Markets; European Music. 09.30—Indian Music; Talk, 10.15-11.00—Indian Music.

ROSTON

(19.67 m.)
22.30—World Affairs; Music.
23.00-23.30—Monitor News.
(49.67 m.)
00.30—Dinner Music.
01.00-01.45—Pathways to Peace;
Songs; Mail.
(25.57 m.)
02.00-04.00—Spanish Programme.

BOUND BROOK

(16.87 m.)

14.00—Breakfast Club; Music.

17.15—Notes; Music; Talk.

18.00—News; Favourite Airs.

18.00—News (It., Ger.); Music.

19.00—News (It., Ger.); Music.

21.00—News (Fr.); Rhythm; Music.

22.00-02.00—For Latin America:

News and Music.

(49.18 m.)

02.00-06.00—For Latin America:

News and Music.

CHICAGO

(49.18 m.) 22.15—Music Circle. 23.25—News. 23.45—The Three Romeos.

HILLZEN

HUIZEN
(19.71 m.)
For the Dutch Indies.
13.25—Anthem; Call; News.
13.60—Gala Performance at the Municipal Theatre, Amsterdam (Recordings).
14.10—Conferring of an Honorary Degree on Queen Wilhelmina, at the University, Amsterdam.
(31.28 m.)
20.00—Recordings of the 14.10 Programme (for South Africa).

MELBOURNE

(31.32 m.)
03.25-08.00—News and Music.
09.30—Watchman; Music; News.
11.00—Dance Band; Music.
13.03—Adelaide Studio Orchestra.
13.30-14.30—News; Records.

MILLIS

(31.35 m.) 14.55—News.

MOSCOW

(25 m.)

12.00 and 18.15—Talks (Ger.).

21.30—Programme in German.

22.00—Talks, etc. (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., Fr.); Music.
(19.68 m.; 19.83 m.)
14.30 — "La Farce du Cuvier"
(Dupont).
15.55-16.00—Exchange; Metals.
(25.24 m.; 31.51 m.)
16.15—News (Fr., Arab.); Music.
20.00—News (Eng., It.).
20.30—Music or Play.
22.30—Music or Play.
22.30—Markets; News (Port.).
(25.24 m.; 25.6 m.)
00.00-02.15—Records; at 01.00—News (Fr., Sp., Port.); Talk
(Sp.).
02.30—Records; at 03.15—News.
04.00 — News, Talk (Eng.); Record. cord. 04.40-05.00-News (Ger.).

PITTSBURGH

(13.93 m.)

11.45—Farm Markets; Organ.

13.15—News; Variety.
(19.72 m.)

14.00—Variety.

17.00—News; Harding's Wife.

17.30—Farm and Home.

18.30—Voice of the Farm.

18.45—Variety.

20.00—Home Forum; Variety.

21.00—News; Club Matinée.

22.00—Owews; Club Matinée.

22.30—Don Winslow of the Navy.

22.35—Movie Magazine.

23.00—News; Orchestra; Sports.

25.26 m.)

00.00—Todd and Liebert.

00.15—Silhouettes of the West.

10.30—Let's Celebrate; Trio.

10.30—Ozpitalny's Orchestra.

10.30-02.00—If 1 Had a Chance.

23.00—New Syots.

3.45—State of Nation.

(48.83 m.)

04.00—News; Week-end Tour.

04.15—The Music You Want.

05.00—06.00—Orchestras. PITTSBURGH

PODERRADY

For Europe. (25.34 m.; 25.51 m.)
19.55—Call; News; Light Music.
20.40—News (Ger.); Music.
21.20—Talk (Fr.); Orchestra.
22.00—News (Fr.); Concerto (Mozart). 22.30-22.40—News (Eng.). (58.31 m.) 22.45-23.10—Variety.

(25.4 m.)

10.40—News, Music (Arabic);
News (Fr.); Music; Talk (Fr.).

12.00 — News (Eng.); "La
Bohème" (Puccini); News.

13.30-14.45—Talks; Music; News.

16.00—News; Music; News (Eng.);
Folk Songs; News.

18.10—News, Music, Talk (Arabic).

19.01—Talk (Dutch).

19.19—News (Eng.); Italian Music;
News (It., Ger.).

21.00—From Turin (No. 1).

23.30—News (Sp., Greek).

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

01.30-03.00—For U.S.A.: News
(Eng.); Guitar; Talk; News.

SCHENECTADY

(13.95 m.)

13.06—Children's Stories; Variety.

14.30—Landt Trio.

14.40—News; Amanda. Snow (Songs).

15.00-17.00—Music.
(19.57 m.)

17.15—Alden Edkins (Bass).

17.30—Farm Programme.

18.00—News; Pfte. Duo.

18.30—Words and Music.

19.00—News (It.).

19.15—U.S. Marine Band.

19.30—Five Hours Back.

20.00-21.00—News (Ger.); Variety.
(19.57 m.; 31.48 m.)

21.00—What's Ahead; Music.

22.00—American News Tower.

22.15—Church in the Wildwood.

22.30—Felix Knight (Tenor).

23.15—Pano Time.

23.25—News; The Four of Us.

23.45—Leo Bolley.
(31.48 m.)

00.00—Organ Music.

00.60—Organ Music.

00.15—Variety.

00.30—Stocks; Sports.

00.50—News (Sp.); Soprano.

01.30—Farm Forum.

02.00—Waltz Time.

02.00—Waltz Time.

03.00—Concert Hall.

03.00—Concert Hall.

03.30—Spanish Literature.

03.00—Concert Hall.

03.30—Hollywood Gossip.

03.46—Jesse Crawford (Organ).

04.00—Variety.

04.30-05.00—Orchestra.

(31.4 m.)

00.15-04.00—For Latin America:

(31.4 m.) 00.15-04.00—For Latin America Variety, News, Music.

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

00.00—News (Pol., Eng.); Music. 01.00—Music; at 01.20—Talk (Fr.). 02.50-03.00—Programmes.

WAYNE

WAYNE

(13.94 m.)

12.30—Phil Cook's Almanac,

12.55-15.00—News; Songs.

(19.65 m.)

18.00—Americans at Work.

18.30—News; Stocks; Music,

19.30—U.S. Navy Band.

20.00—Buffalo Summer Theatre.

20.30—Variety; Music.

21.45—World Economic Co-operation Programme.

22.00—Songs.

22.30—Dance Music.

22.50-23.00—News; Stocks.

(25.36 m.)

23.30-04.00—For South America.

23.30-04.00—For South America.
23.30—Variety.
23.45—News (Port.); Songs.
00.15—Castelo's Broadway Column.
00.30—Adventures in Science.
00.45—News (Sp.); Sketch.
01.30-03.00—Variety.
03.45-04.00—American Viewpoints.
(49.02 m.)
04.30-05.30—For S. America:
Dance Music.

(19.85 m.; 25.49 m.)

16.40—Call (Ger., Eng.); Music.
(19.85 m.; 25.49 m.; 49.83 m.)

17.45—Greetings; Concert.

18.15—Talk (Afrikaans); Echoes.

18.45—News; Reich Party Congress; at 20.00—News (Eng.);
Topical; Markets.

22.00-22.25—News (Ger., Eng.).
(19.74 m.; 25.49 m.)

22.50—Call (Ger., Eng.); Songs;
Echoes.
(19.74 m.; 25.31 m.; 25.49 m.)

01.15—News (Eng.); Reich Party Congress.

SATURDAY, Sept. 10

EMPIRE

Transmission 1 (GSE, GSI, GSO, GSD, GSB) 07.00—Big Ben; Kington Ewe Fair.*
07.20—Topical talks.*
07.40—' George Edwardes.''*
08.40—'' London Log.''
08.50-09.15—News.

Transmission 2 (GSJ, GSH, GSG, GSG‡, GSF)
11.45 — Big Ben; "Steamboat:" variety, music. and drama.*
12.30—"Looking Westward."*
13.00—New Hippodrome Orchestra.
13.30—Topical talks.*

13.50—Students' Songs.* 14.20—" London Log." 14.30—Big Ben; News. 14.50-15.00—Interlude.†

Transmission 3 (GSJ, GSH, GSG, GSG‡, until 17.00, GSF) 15.00—Big Ben; Gilbert Stacey's

18.00—Big Ben; Glocia Sextet. 15.35—Talk on Romania.* 15.50—"Empire Variety Theatre." 16.30—Hazell's (Aylesbury) Printing Works Band: Constance Stocker (Mezzo-Soprano). 17.00—Big Ben; News. 17.30-18.00—Dance Music.

17.30-18.00—Dance Music.

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

18.20—"For Sailors."*

18.35—Victor Olof Sextet.*

19.30—"Unbusually Yours:" John Rorke.*

19.50—"London Log."*

20.00—"Money! Money! Money!" play by Arch Obler.

20.30—"Sing Song."

21.40-22.00—Harry Blech (Violin).

22.15—Big Ben; News.

"Unbusually Yours:" variety, music, and drama.*

23.30-00.00—Dance Music.

Transmission 5 (GSG, GSP.

Transmission 5 (GSG, GSP, GSO, GSD, GSB)
00.20—Empire Variety Theatre.*
01.00—Yascha Krein's Gipsy Or-01.00—Yascha Krein's Gipsy Chestra.
01.30—Saturday Sport.
01.40—News.
02.00-02.30—Big Ben; Upper Norwood Salvation Army Band.

wood Salvation Army Band.

Transmission 6 (GSI, GSD, GSC, GSB)
03.20—"London Log."*
03.30—"Sing Song."*
04.30—Big Ben; News.
05.00-05.20—"Men Who Make The Shows."*

(GSP) Arabic Transmission 18.20-19.15

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

BOMBAY

(31.41 m.) 03.30-04.30—Indian Music. 08.30—Markets; European Music. 09.30-11.00—Indian Music; Talk.

(25.45 m.) 20.00—Baseball. 22.00—Saturday Variety. 23.00 Monitor views the News.

BOUND BROOK

BOUND BROOK
(16.87 m.)
14.00—Breakfast Club; Music.
15.30—Talk; Music.
17.00—Call to Youth.
17.15—Programmes; Intermezzo.
17.30—Gipsy Music.
18.00—News; Favourite Airs.
18.30—Hawaiian Orchestra.
19.00—Italian Hour: News; Crystal Tones; Talk; Musical Pastime.
20.00 — German Hour: News; Travel Talk; Counterpoint.
21.00—French Hour: News; Today's Rhythms; Talk; Musicale.
22.00.02.00—For Latin America: News; Music; at 23.30—Victor Herbert Music.
(49.18 m.)
02.00-66.00—For Latin America: News, Music.

BUDAPEST

(32.88 m.) 00.00-01.00 (Sun.)—Music; News Cigány Band; Talk; Anthem.

CHICAGO

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

HUIZEN

HUIZEN
(19.71 m.)
For the Dutch Indies.
13.25—Anthem; Call; News.
13.40—Dutch Royal Anniversary:
Reports of the Festivities throughout Holland.
14.10—Festivities from the Stadium,
Amsterdam.

MELBOURNE

MELBOURNE
(31,32 m.)
(32.5—Stocks; Music; News.
(4.15-08.30—Music; Racing.
69.30—Markets; News; Music.
11.05—Sydney Symphony Orchestra.
Guest Conductor: Malcolm Sargent; Guila Bustabo (Violin).
11.50—Pftc. Records.
12.10—Richard Tauber (Tenor).
13.00—Bridge; Records.
13.30—News; Cricket Scores—Australia v. Leveson-Gower's XI.
14.00-15.00—Dance Music.
23.00—News; Music; Books.
62.00-04.30—Service; Music.

MILLIS
(31.35 m.)
14.00—Breakfast Club.
02.00 (Sun.)—Barn Dance.

MOSCOW

MOSCOW
(25 m.)
12.00—Talks (Ger., Dutch).
18.15 and 21.30—Talks (Ger.).
22.00—Talks, etc. (Fr., Sp.).
(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

PARIS-MONDIAL

(19.68 m.)

12.00—News (Eng.); Music.

13.30—News; Talks.

(19.68 m.; 19.83 m.)

14.30-16.00—Orchestra, Songs.

(25.24 m.; 31.51 m.)

16.15—News (Fr.. Arab.); Music.

18.00—News (Fr.. Arab.).

20.30—News (Eng.. It.).

20.30—News (Eng.. It.).

20.30—Music or Play.

22.30—Markets; News (Port.).

(25.24 m.; 25.6 m.)

00.00-02.15 — Records; at 01.00 —
News (Fr., Sp., Port.).

02.30—Records; at 03.15—News.

04.00—News (Eng.); Talk; Record.

04.40-05.00—News (Ger.).

PITTSBURGH

PITTSBURGH

(13.93 m.)

11.45—Farm Markets; Variety.

13.15—News; Variety.

(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.

16.16—Radio City Four.

16.30—Our Barn.

17.00—News; Carol Weymann.

17.30—Farm and Home.

18.30—Hotel Lexington Orchestra.

19.30—Whittemore and Lowe.

19.45—Farber's Orchestra.

20.30—Rendezvous with Ricardo.

21.10—News Reeler.

21.15—Club Matinée.

21.30—Baseball Game: St. Louis v. Pittsburgh.

22.30—Sabin's Orchestra.

22.45—Movie Magazine.

23.00—News; Sports; Melody.

23.30—Daily Sports Column.

23.45—Barron's Orchestra.

(25.56 m.)

00.00—Message of Israel.

00.30—Sudy's Orchestra.

(1.30—Republican Political Rally.

02.00—National Barn Dance.

03.00—Renard's Orchestra.

01.30—Renard's Orchestra.

01.30—Renard's Orchestra.

01.30—Renard's Orchestra.

03.30—Concert in Rhythm.

(48.83 m.)

04.00—Dance Orchestra.

05.30-06.00—Reisman's Orchestra.

PODEBRADY

For Europe.
(25.34 m.; 25.51 m.)
15.5—Call; News; Dance Music.
20.40—News (Ger.); Music.
21.20—Talk (Eng.); Folk Songs.
22.00—News (Fr.); Music.
22.30—News (Eng.).
22.45-23.10—Brass Band.

ROME

(25.4 m.) 10.40—News and Musie (Arabic). 11.00—News (Fr.); Songs; Talk 10.40—News and Musie (Arabic).
11.00—News (Fr.); Songs; Talk (Fr.).
12.00—News (Eng., Fr.); Songs;
Choir; News (It., Jap.).
13.30—Talk; Act III, "La Gioconda" (Ponchielli); Talk; News.
16.00—News (It., Fr.); Chamber Music; News (Hindu, Eng.).
17.15—Music; News.
18.10—News, Music, Talk (Arabic).
19.01—Talk (Esp.).
19.37—Opera Music; News.
20.36—News and Mail (Ger.).
21.00—From Turin (No. 1); Talks (Ger., Fr., Eng.).
22.30—News and Talk (Sp.).
23.45—Foreign Affairs (Greek).
00.00—For Latin America: News (Sp.); Puccini and Giordano Opera Music; News (Port.); Mail; News.
01.30-03.00 — For U.S.A.: News (Eng.); Quartet; Talk; News.

16.30—Musical Tête à Tête.
16.45-17.00—Serving the Consumer.
(19.57 m.)
17.15—Carol Weymann (Soprano).
17.30—Farm Programme.
18.00—Orchestra.
18.30—Orchestra.
19.30—Music Internationale,
20.00—Golden Melodies.
20.30—Rhythm and Rhyme.
(19.57 m.; 31.48 m.)
21.00—For Stamp Collectors,
21.15—Girls of the West.
21.30—Orchestra.
22.00—Top Hatters,
22.30—The Kidoodlers,
22.45—Junior Birdmen of America.
23.00—El Chico, Spanish Revue.
23.25—News; Orchestra.
23.45—The Art of Living.
(31.48 m.)
00.00—Ostocks; Sports.
00.30—Stocks; Sports.
00.30—Stocks; Sports.
00.45—Orchestra.
01.00—Kaltenmyer's Kindergarten.
01.00—Kaltenmyer's Kindergarten.
01.45—Barry McKinley (Baritone).
02.00—Omerican Dances.
03.00—The Crickets—Variety.
03.30—Stock Orchestra.
03.00—The Crickets—Variety.
03.30—The Crickets—Variety.
03.30—The Crickets—Variety.
03.30—The Crickets—Variety.
03.30—5.00—Orchestras. 03.30-05.00—Orchestras.
(31.4 n.)
00.15-04.00—For Latin America.
00.15-Organ Reveries (Port.).
00.30—Orchestra.
01.00—News (Port.).
01.15—Music Graphs (Port.).
01.45—Barry McKinley (Baritone).
02.00—Concert Hall (Port.).
02.30—Aloha Land (Port.).
02.30—Old Refrains.
03.00—Design for Music.
03.30-04.00—Dance Orchestra.

16.30—Musical Tête à Tête. 16.45-17.00—Serving the Con-

TOKIO

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

WARSAW

(22 m.; 26.01 m.) 00.00—News (Pol., Eng.); Songs. 00.50 (Sun.)—Talk (Eng.); Music. 01.30—Talk with Music. 02.00—Songs, Orchestra. 02.40-03.00—Reading; Programmes.

WAYNE

(13.94 m.)
13.00—Bob Byron (Songs).
13.15 — Edith Dick and Jack Shannon (Songs).
13.30—Ruth Brine (Commentator).
13.45—Eton Boys—Songs.
14.00—Richard Maxwell.
14.15—Montana Slim — Hillbilly Songs. 13.45—Eton Boys—Songs.
14.00—Richard Maxwell.
14.15—Montana Slim — Hillbilly Songs.
14.25—News.
14.30—Fiddler's Fancy.
15.30—Lew White (Organ).
15.30—Jewel Cowboys.
16.00—Orientale—Music.
16.15—Melody Ramblings with Marty Dale.
16.30—Junior Musical Comedy.
17.00—Columbia Concert Hall.
17.45-18.00—Dance Music.
(19.65 m.)
19.30—Tune Time.
20.00—Merrymakers.
20.30—Gertrude Lutzi and John Sturgess (Songs).
21.00—Charles Paul (Organ).
21.15-21.30—The Dancepators.
22.00—Columbia Concert. Orchestra. Conductor: Leon Goldman.
22.30-23.00—America Dances—CBS-BBC Dance Exchange.
(25.36 m.)
23.30-04.00—For S. America.
23.30—Dance Music.
00.00—Exploring Music.
00.45—News (Sp.).
01.00—Swing Session.
01.30—Russ Morgan's Band.
02.00—Prof. Quiz.
02.30—Rhythm Rendezvous.
03.45-04.00—Del Casino (Songs).
(44.02 m.)
04.39-05.00—For S. America:
Dance Music.

ZEESEN

21.00—From Turin (No. 1); Talks (Ger., Fr., Eng.); 22.30—News and Talk (Sp.).
23.45—Foreign Affairs (Greek).
00.00—For Latin America: News (Sp.); Puccini and Giordano Opera Music; News (Port.); Mail; News.
01.30-03.00 — For U.S.A.: News (Eng.); Quartet; Talk; News.

SCHENECTADY (13.95 m.)
13.00—For Children; Variety.
15.30—Concert for the Young.
16.00—Bailey Axton (Tenor).
16.15—Ford Rush and Silent Slim.

What Would You

	SUNDAY, September 4	MONDAY, September 5	TUESDAY, September 6
Symphony Concerts Operas	2.40 Hilversum 1: Scheveningen. 5.15 Naples group: "Ernani" (rec.). 7.0 Leipzig: "Don Giovanni" (Salzburg records). 7.55 Hilversum 1: Residentie Orch., Goldberg (violin). 8.10 Munich: Festival concert. 8.15 Lille: "Carmen." 8.30 Radio-Paris, Brussels 1: Modern music. 9.0 Rome group: "The Mastersingers."	 5.30 Deutschlandsender, etc.: "The Mastersingers." 6.15 Brussels 1: Belgian music. 7.0 Hamburg: Wagner records. 8.10 Berlin: New German music. 8.10 Kalundborg, Oslo: Music of Finland. 8.15 Königsberg: Classics. 8.35 National: Promenade—Wagner. 8.45 Radio-Paris: Bruno Walter. 9.0 Hilversum 1: Classics. 9.30 Turin group: Venice Festival. 	From all Dutch stations throughout the day: Queen Wilhelmina's Jubilee celebrations. 8.0 Brussels 1: "Le Déserteur" (Monsigny). 8.0 Regional: Promenade. 8.0 Sottens: Mendelssohn prog. 8.10 Kalundborg, Stockholm, 9.0 Oslo: Music of Sweden. 8.20 Radio Eireann: "Tannhäuser." 8.30 Eiffel Tower: National Orch. 9.10 Prague: Mozart, Vranicky.
Chamber Music Recitals	2.10 Hilversum 1: Schipper (tenor). 3.30 Vienna: Beethoven quartet. 6.20 Oslo: Song, violin, guitar. 6.30, 8.0 Eiffel Tower: Song, pfte. 6.50 National: Lener String Quartet. 7.0 Vienna: Violin, guitar. 7.10 Beromünster: Sonatas (Schubert). 7.30 Berlin: String quartet. 7.30 Breslau: Pfte. quartet (Mozart). 8.20 Radio Eireann: Organ. 8.50 Sottens: Pianoforte. 10.30 Stockholm: Vocal quartet.	4.0 Paris (PTT): Organ. 5.0 Deutschlandsender: Trio. 6.0 Radio-Paris: Pfte., song. 6.20 Munich: Quartet classics, 7.0 Vienna: Pianoforte. 7.15 Oslo: Norwegian music, 7.35 Radio Eireann: Schumann. 8.0 Eiffel Tower: Song, pfte. 8.30 Paris (PTT): Songs, trio. 9.5 Bucharest: Schumann songs. 9.30 Stockholm: Song, pianoforte. 10.20 Kalundborg: Fisher songs. 11.10 Hilversum 1: Cathedral Chimes.	5.0 Brussels 1: Vln., pfte. (Franck). 6.0 Regional: From Montevideo. 6.10 Warsaw: Pfte. (Paganini). 6.30 Deutschlandsender: Ballads. 7.0 Radio-Paris: Vln., pfte. (Ravel). 7.25 Bucharest: Russian songs. 8.0 Eiffel Tower: Song, pfte. 8.10 Poste Parisien: Love songs. 8.15 Beromünster: Berne Minster. 8.15 Radio-Paris: Vln., pfte., songs. 9.40 Turin group: Violin, pfte. 10.20 Kalundborg: Danish songs.
Plays and Feature Programmes	2.0 Paris (PTT): "Peg o'my heart." 8.0 Kalundborg: Youth Congress. 8.25 Beromünster: Dialect play. 8.30 Paris (PTT): "L'étourdi" (Molière). 8.30 Strasbourg: Alsatian play. 9.0 Turin group: "L'incrinatura."	 Radio-Paris: "C'est mon mari." Stuttgart: "Schmiedgesell Adam Urbein." Naples group: "Casa nostra." Strasbourg: Three plays. Paris (PTT): Esperanto play. 	7.0 Brussels 2: Dutch Jubilee, 8.45 Sottens: "Nationale 6." 9.0 Poste Parisien: Play, 9.0 Turin group: "Bentornato." 9.5 Beromünster: Schnitzler comedy, 9.30 Radio-Paris: "La naissance de Tristan."
Bands Light Orchestral Operettas	4.0 Kalundborg: Band concert. 4.0 Saarbrücken, etc.: Light music. 4.30 Paris (PTT): Gras Orchestra. 5.0 Radio-Paris: Visciano Orch, 6.0 Berlin: Operetta music, 6.0 Brussels 1: Light orchestral. 7.0 Budapest: Cigány band. 7.15 Oslo: Station Orchestra. 8.0 Prague: "Polenblut" (Nedbal). 8.10 Berlin: Choir, orchestra. 8.10 Bucharest: Radio Orch., songs. 8.10 Cologne: Studio operetta. 8.10 Stuttgart: Pop. orchestral. 8.10 Vienna: Opera music. 8.15 Königsberg: Variety concert. 9.0 Kalundborg: West Jutland prog. 9.0 Stockholm: Opera music. 9.15 Sottens: Lausanne concert. 10.20 Kalundborg: Preil Ensemble. 10.30-3.0 German stations: Dances, light music. 11.0 Budapest: Orchestra.	2.30 Kalundborg: Preil Ensemble. 4.0 Strasbourg: Viennese music. 5.0 Radio-Paris: Giardino Orch. 5.0 Swiss stations: Radio Orch. 5.30 Deutschlandsender: Band. 6.0 Hilversum 2: Salon orchestra. 6.20 Prague: Band. 7.0 Berlin: Hans Busch Band. 7.0 Stuttgart: Mannheim Orch. 7.30 Warsaw: Vocal, instrumental. 8.0 Brussels 1: Radio Orchestra. 8.0 Sottens: Orchestra, songs. 8.10 Stockholm: Navy Band. 8.15 Frankfurt: Popular orch. 8.30 Brussels 2: Band. 8.45 Budapest: Cigány band. 9.10 Rome group: "Don Gill" (operetta). 9.10 Warsaw: Variety concert. 9.20 Budapest: Light classics. 10.15 Oslo: Stavanger Orch.	12.20 Radio-Paris: Bailly Orchestra. 3.0 Kalundborg: Julian Orchestra. 4.0 Cologne: Overtures. 4.0 Strasbourg: Light orchestral. 5.0 Königsberg: Orch., arias, 5.0 Radio-Paris: Derveaux Orch, 5.0 Swiss stations: Opera music. 6.20 Munich: Light music. 6.20 Prague: "Schrammel" music, 7.0 Breslau: Folk music. 7.0 Frankfurt: Variety concert, 7.15 Budapest: Station Band, 7.15 Oslo: Station Orchestra, 7.15 Radio Eireann: Orch., songs, 7.30, 9.10 Warsaw: Variety concerts, 8.0 Brussels 2: Radio Orchestra, 8.15 Stuttgart: Orch., vocal, 8.30 Strasbourg: Orchestra, songs, operetta (10 p.m.). 9.0 Rome group: Orchestra. 9.40 Beromünster: Folk songs, orch, 10.30-3.0 German stations: Orch, 10.45 Budapest: Military band.
Talks (including News in English) Commentaries	3.0 German stations, Stockholm (5.35): European Athletics. 6.45 Radio Eireann: "Yachting." 7.0 Hamburg: "Wesermünde." 8.40 Hilversum 2: "Queen Wilhelmina's Reign."	2.10 Hilversum 1: The Royal Party at Amsterdam. 8.10 Hilversum 2: Jubilee Service. 9.30 Swiss stations: Youth Festival. 10.10 Brussels 2: Dutch Jubilee. 11.0 Budapest: News (English).	At intervals German stations: Nürnberg Party Congress. 6.30 Cologne: English Talk. 10.10 Budapest: "The Dutch Jubilee." 10.45 Bucharest: News in English. 11.0 Prague: News in English.
Variety Cabaret	7.0 Radio-Paris: Bilboquet. 8.0 Brussels 2: Musical variety. 8.30 Eiffel Tower: Rustic variety. 10.5 Poste Parisien: Cabaret. 10.35 Brno, Prague: Revue (rec.).	4.0 Radio-Paris: Revue. 8.10 Breslau: "Blue Monday." 8.30 Regional: Variety. 8.45 Brussels 1: Walloon Cabaret. 11.0 Kalundborg: Grinzing evening.	6.30 Berlin: Musical almanac. 7.30 Stockholm: Summer Cocktail. 7.45 National: "Band Waggon." 8.30 Naples group: Revue. 10.30 Poste Parisien: Cabaret.
Dance Music	10.0 Budapest; 10.15, Oslo; 10.40, Brussels 1; 11.0, Brussels 2, Paris (PTT), Radio-Paris, Strasbourg; 11.15, Kalund- borg, Turin group.	5.0 Warsaw; 10.15, Prague; 10.30, Naples group, Regional; 11.10, Budapest, National; 11.15, Rome group; 11.30, Turin group.	10.30 Naples group; 10.35, Regional; 11.5, Kalundborg: Old dance music; 11.15, National, Rome, Turin, groups.

Like To Hear?

WEDNESDAY, Sept. 7	THURSDAY, Sept. 8	FRIDAY, September 9	SATURDAY, Sept. 10
6.20 Munich: Symphony (David). 7.55 Hilversum 2: Jubilee concert. 8.0 Beromünster: "Der Wildschütz" (Lortzing). 8.0 Brussels 1: Recent French music. 8.0 National: Promenade, Bach. 8.30 Paris (PTT): Vichy concert. 8.30 Strasbourg: Classics. 8.30 Vienna: Beethoven. 8.55 Brno, Prague: Opera music. 7 Turin group: "The Mastersingers."	 7.0 Deutschlandsender: Italian and Hungarian Music. 7.0 Hamburg: Sibelius, etc. 8.0 Brussels 1: "La Bohème." 8.0 Regional: Sir Henry Wood. 8.10 Kalundborg, Oslo: Music of Norway. 9.0 Berlin: Modern music. 9.0 Brussels 2: Saint-Saëns, Glazunov, Ravel. 9.15 Sottens: Opienski programme. 9.30 Turin group: Venice Festival. 	7.55 Hilversum 2: Jubilee concert. 8.10 Kalundborg, Oslo, Stockholm (9.15): Music of Denmark. 8.20 National: Promenade. 8.30 Lille: Vichy concert. 8.30 Paris (PTT): French music. 9.0 Rome group: Classics. 9.10 Prague: Dvořák. 9.15 Strasbourg: "Pagliacci." 10.0 Warsaw: Russian music. 11.0 Radio-Paris, Strasbourg: Bizet, Chausson, Wagenaar.	8.0 Brussels 1: Contemporary Belgian music. 8.0 Eiffel Tower: "Faust" (Gounod), from the Opéra. 8.0 Regional: Sir Henry Wood. 8.30 Sottens: Excerpts from Mascagni operas.
5.0 Brussels 1: Modern quartets. 5.0 Deutschlandsender: Motets. 5.40 Hilversum 1: Organ. 6.20 Königsberg: Wolf songs. 6.32 Radio-Paris: Harpsichord. 8.0 Eiffel Tower: 'Cello, pfte. (Brahms). 8.0 Oslo: 'Cello. 9.10 Warsaw: Chopin. 9.15 Cologne: Cantata (Kauffmann). 9.40 Naples group: Pfte., waltzes. 10.20 Kalundborg: Trio (Malling). 10.30 Prague: Thauvoye (harpsichord).	1.40 Hilversum 1: Soprano songs. 5.0 Deutschlandsender: Quartets. 6.20 Oslo: Norwegian music. 6.30 Paris (PTT): Organ. 7.0 Vienna: Wind instruments. 7.3 Brussels 2: Van Crombruggen. 7.30 Strasbourg: Pianoforte. 8.0 Beromünster: Swiss folk songs. 8.0 Eiffel Tower: Song, pfte. 9.0 Breslau: Trios. 10.0 Warsaw: Quartets. 10.20 Kalundborg: Songs. 10.30 Budapest: Violin.	5.0 Radio - Paris: Quartet, pfte., songs. 5.10 Hilversum 1: Organ. 5.50 Kalundborg: Operetta songs. 6.20 Königsberg: Choir, organ. 7.0 Warsaw: Modern songs. 7.40 Hilversum 1: Violin, pfte. 8.10 Stockholm: Pianoforte duets. 9.30 Melnik: Quartets. 9.30 Vienna: Pfte. classics. 9.45 Beromünster: Schoeck songs. 10.0 Hilversum 2: Pianoforte. 10.30 Prague: Violoncello.	5.40 Hilversum 1: Steyn (organ). 6.0 Deutschlandsender: Classics. 6.10 Warsaw: Pianoforte. 6.30 Brussels 1: Violin. 6.30 Eiffel Tower: Women composers. 6.45 National: Lance Dossor (pfte.). 7.0 Warsaw: 'Cello. 7.30 Beromünster: Pianoforte. 7.35 Bucharest: Opera arias. 8.40 Radio Eireann: Zither banjo. 9.40 Rome group: Pianoforte. 9.45 Budapest: Harpsichord.
 7.45 Radio Eireann: Radio play. 8.30 Eiffel Tower: Aristophanes, Fauchois. 9.0 Rome group: "Anima allegra." 9.25 Kalundborg: "George Stephenson." 9.35 Regional: "Brigade Exchange." 	 5.0 Radio-Paris: Molière, de Vigny. 7.0 Stuttgart: Swabian sketches. 8.0 Budapest: "London to Bánfalva." 8.30 Paris (PTT): "Musse" (Romains). 9.10 Strasbourg: "Der Besuch." 	 7.0 Breslau: "Goodbye to Summer." 7.55 Beromünster: "Freiberge—the Jura country." 8.30 Radio-Paris: "Le prix Martin." 8.45 Brussels 2: "Paris danse le cancan." 9.0 Sottens: "Un voyage à Biarritz." 	 8.0 Warsaw: For Poles abroad. 8.30 Radio-Paris: "Le pain de ménage." 8.45 Brussels 1: One-act play. 9.0 Rome group: "Malgrado tutto." 9.5 Beromünster: Burlesque play. 9.10, 11.0 Paris (PTT): Plays.
12.30 National: From Berlin. 2.30 Kalundborg: Radio Orchestra. 4.0 Cologne, Vienna: Orch., songs. 5.0 Berlin: Busch Band. 5.0 Radio-Paris: Cantrelle Orch. 6.20 Prague: Light orchestral. 7.5 Bucharest: Radio Orchestra. 7.30 Warsaw: Variety concert. 8.0 Brussels 2: Soldiers' prog. 8.0 Regional: "Virginia." 8.10 Stockholm: Popular orch. 8.30 Königsberg: Popular orch. 8.30 Naples group: Band concert. 8.55 Hilversum 1: VARA Orch., soprano. 9.10 Budapest: Light orchestral. 9.15 Brussels 1: Offenbach. 9.15 Sottens: Folklore programme. 10.30-3.0 German stations: Popular programmes. 11.10 Budapest: Cigány band.	 8.10 Cologne: Choir, orchestra. 8.30 Naples group: "La romanza di Liszt." 8.30 Radio-Paris: "Le bon roi Dagobert." 8.30 Strasbourg: Folk music. 9.0 Rome group: Bànd concert. 	8.30 Strasbourg: Orchestra. 8.40 Hilversum 1: Pop. orch. 9.0 Turin group: "Fanfan la Tulipe." 9.30 Cologne: Light-hearted music. 9.30 Leipzig: Band concert. 10.5 Budapest: Cigány band.	12.15 Radio-Paris: Bailly Orchestra. 2.10 Kalundborg: Radio Orchestra. 3.10 Hilversum 1: Popular orch. 6.0 Brussels 2: Radio Orch., songs. 6.0 Regional: "George Edwardes." 6.20 Prague: Salon orchestra. 7.15 Oslo: Norwegian music. 7.30, 9.10 Warsaw: Variety concerts. 7.50 Radio Eireann; "Summer Gardens." 7.55 Hilversum 1: VARA Orch. 8.10 Cologne, Leipzig: Light music. 8.15 Hilversum 2: Musical variety. 8.15 Königsberg: Light music. 8.15 Melnik: Variety concert. 8.30 Paris (PTT): Pop. orchestral. 8.30 Strasbourg: Orch.; 9.30, Dalcroze programme. 9.0 Turin group: Band concert. 10.5 Radio-Paris: French music. 10.10 Brussels 1: Salon orchestra. 10.30-3.0 German stations: Light music and classics. 11.10 Budapest: Cigány band.
At intervals German stations: Nürnberg Party Congress. 7.10 Lille: Talk in English. 9.20 Poste Parisien: "Romania." 11.0 Budapest: News (English, French).	the "Oranje." At intervals German stations: Nürnberg Congress.	At intervals German stations: Nürnberg Congress. 6.0 Leipzig: "Saxony." 8.50 Stockholm: Eric Linklater. 10.20 Kalundborg: Gripenberg poems. 11.0 Budapest: English, French.	At intervals German stations: Nürnberg Congress. 4.40 Radio-Paris: "History books." 7.10 Lille: Talk in English. 7.50 Kalundborg: "Boccaccio's Italy."
7.0 Budapest: Radio fantasy. 8.30 Radio-Paris: Variety evening. 10.30 Poste Parisien: Cabaret.	9.40 Regional: Variety. 10.15 Moravská - Ostrava, Prague: Revue (records).	4.0 Paris (PTT): Variety. 8.10 Stuttgart: "September." 8.30 Eiffel Tower: Literary and musical variety.	 4.0 Stuttgart: Variety programme. 8.10 Berlin, Naples group: Variety. 8.30 Brussels 2: Cabaret. 8.30 French stations: Soirée tournante.
5.0 Warsaw; 10.0, Budapest; 10.10, Brussels 1; 10.15, Stockholm; 10.25, Regional; 10.30, Naples group, Sottens; 10.45, Oslo; 10.55, Kalundborg; 11.0, National; 11.15, Rome group.	group, Sottens; 10.50, Hilversum 1; 10.55, Kalundborg; 11.10, Budapest;	Frankfurt; 10.30, Naples group, Regional; 10.50, Kalundborg; 11.0, National;	sien; 10.15, Oslo, Sottens, Stockholm; 10.20, Beromün- ster, Budapest; 10.30, Melnik, Naples, Prague, Regional;

Long and Medium Wave Programmes

SUNDAY SEPTEMBER 4

National

Time Signals (normally): Big Ben, 12.30 p.m. Greenwich 10.30 a.m., 4.0, 9.0, 11.0 (D) p.m. 9.25-10.15 a.m. (D)—Service (C.E.): 10.30 (D)—Weather Forecast. 10.45 (D)—Alfredo Campoli's Salon

9.25-10.15 a.m. (D)—Service (C.E.)
10.30 (D)—Weather Forecast,
10.45 (D)—Alfredo Campoli's Salon
Orchestra.
11.30 (D)—Victor Olof Sextet.
12.0 (D)—Scottish C.W.S. Band:
Mae Johnston (Soprano).
1.0 (D)—Michaeloff and his Bessarabian Orchestra.
2.0 (D)—Orchestral Hour.
3.0 (D)—Variety records.
3.40 (D)—"Unusually Yours:"
John Rorke.
4.0—Tom Jenkins and the Grand
Hotel, Eastbourne, Orchestra:
Enid Cruickshank (Contralto).
5.0—"Is the Church Worth While?"
Rev. R. A. Edwards.
5.20—BBC Midland Orchestra, conducted by Losdie Howard.
6.0—Richard Crean Orchestra:
Courtet in C. sharp minor (Beethoven); Quartet movement in C.
minor (Schubert).
7.55—Service (Methodist).
8.45—Appeal on bebalf of The
Alliance of Honour.
8.50—The News.
9.5—"The Snow Queen," by Hans
Andersen, with Mary O'Farrell,
Mary Graham, Desmond Tester,
Dora Barton, Lilian Hartíson,
Norman Shelley, Susan Taylor,
Charles Mason, Beatrice Gilbert,
Valentine Dyall, Dora Gregory,
Merula Salaman, J. B. Rowe,
Margaret Halstan, Fanny Wright,
9.55—Reginald King's Orchestra.
10.15—"Excepting Mrs. Pentherby:"
story by "Saki."
10.30—Epilogue.

London Regional Time Signals: Big Ben, 12.30 p.m. Greenwich, 4.0, 9.0 p.m. 9.25 a.m.—National.
4.0 p.m. — Dorothy Helmrich

9.25 a.m.—National
4.0 p.m.—Dorothy Heiming
(Mezzo-Soprano).
4.30—For Younger Children.
5.9—Charles Ernesco's Quintet with
Walter Glynne.
5.30—Dudley Savage (BBC Theatre

Walter
5.30—Dudley Savage
Organ).
6.9—"Is that the Law?"
6.20—The Story of the St.
Lawrence.
6.50—BBC Military Band: Florence
Auerral (Soprano).

6.50—BBC Military Danta Austral (Soprano).
7.35—Service (C.E.).
8.45—Appeal on behalf of the Cheyne Hospital for Children, by John Gielgud.

50—1 De News.
5—Victorian Melodies: Derek
Oldham (Tenor); BBC Theatre
Chorus (Male Voice) and Theatre
Orchestra, conducted by Harold

Lowe: 10.0—Brahms' Sonata in F minor, Op. 120, 1: Frederick Riddle (Viola); John Wills (Pfte.). 10.30—Epilogue.

Midland

Midland
4.0 p.m.—Regional.
6.50—The Amington Band: John
Bayes (Bass),
7.55—Service (C.E.).
8.45—Appeal.
8.50—The News.
5.—Regional.

55—Regional.

.0—George Gibbs (Baritone);

BBC Midland Singers and Orchestra. 10.30—Epilogue.

Northern

Northern
9.25 a.m.—National.
4.0 p.m.—Regional.
6.0—Freda Townson (Contralto).
6.30—Two Fantastic Stories: "Eli," by Arnold Shield; "Finesse," by W. Weatherill.
6.50—Regional.
7.55—Service (R.C.) from Middlesbrough Cathedral.
8.45—Appeal.
8.50—The News.
9.5-10.30—Regional.

4.0 p.m.—Regional.
5.0—Glastonbury Town Silver Band.

6.20 — Marjorie Mason (Mezzo-Soprano); Priscilla Butler (Pfte.). 6.30—Regional. 7.35—Service (Congregational). 8.45—Appeal. 8.50—The News. 9.5-10.30—Regional.

Welsh

Welsh

9.25 a.m.—National.

11.0—Welsh Service from Tabor Presbyterian Church, Maesteg.

12.15 p.m.—National.

4.0—Welsh talk by Griffith Quick on life in Rhodesia.

4.20—Italian Folk Song records.

4.30—Regional.

7.55—Service from Zion English Baptist Church, Pentre, Rhondda.

8.45—Appeal.

Baptist Church, Pentre, Rhondda. 8.50—Appeal. 9.5—The News. 9.5—Llandudno Pier Orchestra: Parry Jones (Tenor). 9.50—" Cloudbreak: " a play by A. O. Roberts. 10.30—Epilogue.

N. Ireland 9.25 a.m.—National. 4.0 p.m.—Regional. 6.55 — Service (Methodist) from

4.0 p.m.—Regional.
6.35 — Service (Methodist) from Belfast.
7.55—Scottish.
8.45—National.
9.5—BBC N. Ireland Orchestra, conducted by E. Godfrey Brown: Ballet Suite, The Gods Go abegging (Handel); Why-thorne's Shadow (Moeran); Variations on an original theme (Elgar).
10.0-10.30—Regional.

Scottish

9.25 a.m.—National. 4.0 p.m.—Regional. 6.0—Folk Songs and Dances: Jean Houston (Soprano); William Ivory

Houston (Go.)

6.20—Regional.

7.55—Service (Episcopal Church in Scotland), from St. Mary's (Episcopal) Cathedral, Edinburgh.

8.45—National, 9.5-10.30—Regional.

Hours of Transmission in British Summer Time.

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 Protestant Service from Potsdam Garrison Church.
9.30—Address.
10.0—Weather.
10.5—Raue Band

10.5-Raue Band and Walter Thiele

(Pfte.). 11,30—Mozart Records.

12.0 noon—Libiszowski Orchestrar Jungherr Accordion Band, and Georg Freundorfer and his Zither Quartet.

2.0 p.m.-Greetings.

2.0 p.m.—Greetings.
2.5—Records. Overture, "Das
Liebesverbot" (Wagner). Archibald Douglas (Loewe). Gavotte
and Rigaudon (Graener). Excerpts, "Arabella" (Strauss).
Irrlichter (Liszt). Die wilde Jagd
(Liszt). Finlandia (Sibelius).
3.0—Echoes from the Kurmark.

3.30-Busch Band 4.0-See Saarbrücken.

4.0—See Saarbrücken.
6.0—Operetta Music by the Willy
Libiszowski Orchestra. Overture,
"Der Opernball" (Heuberger).
Hab ein blaues Himmelbett
(Lehár). Strauss Operetta Potpourri. March, "The Merry
Widow" (Lehár). Waltz from
Eva (Lehár). Selection, "Die
Vielgeliebte" (Dostal).
7.0—Hungarian Dances. (Brahms)
by Prudentia Olbrich and Walter
Thiele (Pftes.).
7.15—Sports.

7.30—String Quartet (Hamann) by the Havemann Quartet.

the Havemann Quartet.

8.0—News; Announcements.

8.10—"North-South"—A Musical Journey. Station Choir and Orchestras, Conductors: Weigel and Willy Steiner; Melitta Harder, Freya Feldsmann, Elisabeth Schwarzkopf, Denis O'Neil, Richard Sengeleitner, Cornelis

SERVICES—SACRED MUSIC

A.M.
10.0 Kalundborg: Church Service.
10.10 Hilversum 1 : Service.
11.0 Italian stations : Mass.
12.0 noon Radio-Paris : Address.

P.M.
6.0 Stockholm: Evensong.
7.0 Sottens: Address.

Bronsgeest, and Erwin Sachse-Steuernagel. 10.0—News; Sports. 10.30—Jahn and Schönfeld Bands. 1.0-3.0 a.m. (Monday) — Music from Hamburg.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 9.30 a.m.-12.30 p.m.-From Berne, 9.30 - Early Morning in the Farm-

d.
-Protestant Service.
-Protestant Service. (Schubert).

10.0—Protestant Service.
10.45—Schwanengesang (Schuber
11.45—Readings.
11.35—Chamber Music.
12.15 p.m.—To be announced.
12.30—News.
12.40—Zürich Radio Orchestra.
1.30-7.45—From Berne.
1.30—Dialect Reading; Yodels.
2.10—Talk: Fruit-growing.
2.30—Marches.
2.50—Mixed Choir.
3.5—Hägendorf Accordion Band.
3.30—Report: The Shoe Exhibition.

tion.
3.50—Records: Viennese Music. 4.5—A Story. 4.20—Children's Songs (Mussorg-

4.5—A Story.
4.20—Children's Songs (Mussorgsky).
4.35—Records.
4.45—Talk: A Journey to Tunis.
5.10—Dance Records.
5.50—Dialect Report.
6.5—Chess.
6.30—Old Violin Music.
6.55—Announcements.
7.0—Talk: Vintage Festival in Switzerland.
7.10—Schubert Sonatas.
7.40—Announcements; News.
7.55—9.55—From Berne.
7.55—Sports.
8.5—Report by Vico Rigassi: The European Rowing Championships at Milan (Recorded).
8.10—Popular Music.
8.25—Talk on Otto von Greyerz for the 75th Anniversary of his Birth, followed by "Nume das nid!"—Dialect Play (Otto von Greyerz).
9.55—Light Music. Greyerz).

55—Light Music.

.25 (from Berne)—Announce-

BRATISLAVA

BRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW.
Transmits at intervals from 6.30 a.m.
10.25 a.m. — Modern Romanian
Literature—Talk and Reading.
10.55-1.50 p.m.—See Prague.
1.60—For Farmers; Record.
2.10—For Workers.
2.25—For Hungarian Farmers.
2.40-2.45—Water Level.
3.0—Talk from Kosice: The
Kosice Exhibition,
3.00-5.0—See Prague,
5.0—Report from a Paper Factory
at Kosice.
5.35—Records.
6.0 — Hungarian
Educational Talk; Report from
Levice Museum.
6.45—Record.
6.50—News in German.

6.45—Record.
6.50—News in German.
7.0—See Prague.
7.20—Slovak Folk Songs by the Illés Cigány Band.
7.45—Talk from Kosice.
8.0-10.20—See Prague.
10.26—News in Hungarian.
10.35-11.30—See Brno.

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.
6.9—Band from Liegnitz; in the intervals, Humorous Talks.
8.0—Motto; Records.
8.50—Time; Weather; Greetings.
9.0—See Cologne.
9.30—Pfte. Sonata in B flat (Bortkiewicz).

9.30—110. kiewicz). 9.55—Records. 11.9—"What is Hap Scenes (Turley),

Happiness ? "— and Songs Scenes (Turley), and Songs (Sczuka).

11.30 — Contemporary German Songs by Else Evers-Schulze (Contralto).

12.0 noon—See Leipzig.
2.0 p.m.—Weather.
2.5—"Ina Scidel"—Literary Sequence (Metzner).
2.30—Records.
3.30—Books and Music—Talks.
4.6—"Nersery Music," Station Orchestra. Conductor: Topitz. Erich Kerndorff ('Cello). Heinrich Bias (Bassoon). Kinderliedermarsch (Ziehrer). Jeux d'enfants (Bizet). 'Cello ! Lullaby (Järnefelt). Ein Kindermärchen (Hippmann). Max und Moritz (Zimmer). Bassoon: Teddybär in der Kinderstube. Selection, 'Die Puppenfee' (Bayer). Princess Golden Shoes (Rust). Pieces from the Suite, In einem Puppenhaus (Englemann).
5.6—A Story.
5.10—Waltzes and Marches. Station Orchestra. Conductor: Topitz; Carl Rau (Saxophone).
6.0—"The Radio Interference Detective"—Three Humorous Scenes (Lotte Zielesch).
6.30—Song Records.
7.0—Sports Reports: (a) The Amateur and Professional Road Cycling Races for the World Championship in Valkenburg, Holland, (b) The Rowing Races for the World Championship in Milan, (c) The European Light Athletics Championships in Paris.
7.25—Sunday Sports Review.
7.30—Pfte. Quartet in G minor (Mozart), by Hans Grohmann (Violin), Hermann Wagner (Viola), Karl Greulich ('Cello), and Kurt Hattwig (Pfte.).
8.10—Silesian Folk-Music Festival from Bolkenhain, Chamber Orchestra. Conductor: Spittler.

Hattwig (Pfte.).

8.0—News.

8.10—Silesian Folk-Music Festival from Bolkenhain, Chamber Orchestra. Conductor: Spittler.

Mandoline and Lute Orchestra. Conductor: Hallmann.

9.0—"Grosses Glück und stiller Abschied"—Sequence (Illing); Music by Völkner.

10.40—News; Sports.

10.30—Report: The International Riding Tournament at Insterburg: The Führer's Prize.

10.45—Music from Berlin,

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

BRNO

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

Transmits at intervals from 6.30 a.m.

5.15 p.m.—"Harvest Time"—Folk
Play (Lido Janusova).

5.35—German Transmission: Talk:

The Death of Theodor Körner
(August 27, 1813); A Sketch;
Schrammel Trio; Knechtsberger
(Pfte.).

6.50—News in German.

7.0-7.45—See Prague.

7.45—Talk: Students of To-day.

8.0-10.35—See Prague.

10.35-11.30—Revue on Records.



Stan Brenders and his band provide the 10.40 p.m. programme for Brussels No. 1.

BRUSSELS (No. 1)
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—Request Records.
10.0—Alexys Orchestra from the
Alhambra.
10.30—Records: Gothic Symphony
(Widor) by the Composer
(Organ)

(Widor) by the Composer (Organ).

10.45—Alexys Orchestra from the Alhambra; at 11.0—Monologues, and at 11.15—Nicolay ('Cello).

12.0 noon—Records.

12.30 p.m.—Weather; Shipping.

12.35—Belgian Music. Conductor: Souris; François Gilman (Flute).

March, Métropole (Wangermée).
Intermezzo (Caludi). Flute and
Píte.: Impromptu (Sarly).
Serenade (De Taeye). Rêve de
poète (Dupuis). Petite suite
orientale (Hillier).
0-News.
.10—Light Orchestral. Conductor:
Souris; Ferari (Violin). Overture, "Cotillon" (Casadesus).
Violin: Introduction and
Humoresque (d'Ambrosio). Excerpts from the Gipsy Suite

cerpts from the Gipsy St (Coleridge-Taylor). 1.35—Art Notes; For Farmers. 2.0-2.15 — Records: Seren

1.35—Art Notes; For Farmers.
2.9-2.15 — Records: Serenade (Mozart).
2.30—Records.
2.40—A Walk in the Bocq Valley.
2.50—Records: Light Music.
3.0—Records: André Chénier" (Giordano).
4.6—Records: Quintet in F minor (César Franck), by the Capet Quartet and Marcel Ciampi (Pfte.).
4.45—Eugénia Buyko (Songs).
5.0—Brenders Dance Band.
5.20—"Le pot aux roses"—One-Act Comedy (Robert de Mackiels).
5.30—Football Results.
5.40—Brenders Dance Band.
6.0—Light Orchestral. Conductor: Souris; Lauwers (Clarinet); Peterman (Bassoon): René Durand (Songs); Musette Ensemble. Ferrari (Songs).
7.15—Records: Le Martyr de Saint-Schastien (Debussy).
7.30—News.
8.0—Records: Overture, "The Secret Marriage" (Cimarosa). Aria, "Falstaff" (Verdi), Duet from "Falstaff" (Verdi), D

BRUSSELS (No. 2)
932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.
6.30-9.0 a.m.—Records; Gym;

News.

Announcements; For Gar-

News.

9.0—Announcements; For Gardeners.

9.20—Records: "The Messiah" (Handel). Conductor: Sir Thomas Beecham.

10.0—Light Music. Jean Steurs and his Musette Ensemble, Mia Vigneul (Soprano) and Francis De Paep (Tenor). In the intervals, Records.

11.0—Paul de Maleingreau (Organ). Toccata (Muffat). Choral Preludes (Zachau, Walther, Scheidt, and Bach). Pastorale (Bach). Fugue in E minor (Handel).

11.30—Records of Edith Lorand.

11.35—Science Notes; Records.

12.31 p.m.—Salon Orchestra. Conductor: Féron, Jean Mondalt ("Cello); at 1.0-1.10—News.

1.30—Records: The Mills Brothers.

1.45-2.0—Book Review.

dalt ('Cello); at 1.0-1.10-News.
1.30-Records: The Mills Brothers.
1.45-2.0-Book Review.
2.13-Records.
2.45 - Commentary by Frans
Dirickx from Valkenburg: The
Amateur and Professional Road
Cycling Races for the World
Championship.
3.0-Orchestra. Conductor: André;
Jef Van Schoeland (Baritone);
Francis Stoefs (Flute). Titrea
brugeois (de Roo). Baritone:
La Lys (Duvosel). Flute and Orchestra: Symphonic Poem
(Benoit). Tableaux de Breughel
(Brusselmans). Till Eulenspiegel
(Alpaerts).
4.30-For Children.
5.13-Sports; Records.

4.30—For Children.
5.15—Sports; Records.
5.30—Cinema Organ Records.
5.45—Topical Sketch.
6.0—Salon Orchestra. Conductor: Féron. In the interval, Records of Franz Völker.

5.45—Topical Oscaria Golden Conductor:
Féron. In the interval, Records of Franz Völker.
6.25—Commentary by Frans Dirickx: The Amateur and Professional Road Cycling Races for the World Championship.
6.45—Religious Address.
7.0—Records: Light Music.
7.15—Hungarian Suite (Hubay) by the Salon Orchestra, Conductor: Féron.
7.30—Film and Book Reviews.
8.0—"Non-Stop" Variety Concert, Mixed Choir. Conductor: Gras. Radio Orchestra. Conductor: Douliez, Lies De Leeuw (Songs). The Vocal Kings. Flup and Tische.

10.10—Records, Excerpts, "Romeo and Juliet" (Berlioz), The Fire-Bird (Stravinsky). 11.0-12.0 mt.—Dance Music from the Torenkelder, Antwerp.

BUCHAREST

BUCHAREST

823 kc/s (364.5 m.); 12 kW.
Relayed by Radio-Romania, 160 kc/s (1,875 m.).
Transmits at intervals from 7.30 a.m.
8.55 a.m.—Service; Records.
12.16 p.m.—Time; News.
12.25—Sibiceanu Orchestra; at 1.15-1.30—Time; News.
2.10—Variety Programme.
2.30—Talk for Peasants.
2.45—Alexandru (Songs).
3.5—For Farmers.
3.25-4.10—Peasant Band.
6.0—Time; Weather.
6.2—Medical Talk.
6.17—Dance Records.
6.58—Sports; Dance Records,
7.35—Martine—Barbillon-Stefanesco (Violin).

7.35—Martin (Violin). 8.0—News. 8.10—Radio Orchestra, Conductor: Rogalski, Constance Badesco at 9.0-9.15—Holst 8.10—Radio Officiasta.
Rogalski. Constance
(Songs); at 9.0-9
Records.
10.0—Sports Notes.
10.15—Operetta Records.
11.0-12.0 m°t.—Records.

BUDAPEST

S46 kc/s (549.5 m.); 120 kW. 9.30 a.m.—News.
10.0—Roman Catholic Service.
11.16—Protestant Service.
12.30 p.m.—Csokonai Choral Festival.
1.5—Orchestra. Conductor: Rajter.
2.0—Records.
3.0—For Farmers.
3.45—Military Band. Conductor: Sergi.

3.45—Military Band. Conductor:
Seregi.
4.30—Sándor Imre.
5.0—Rozsi Delly (Songs).
5.30—A Story.
5.55—Miklos Schwalb (Pfte.).
6.30—Report: The International Swimming Championship, America v. Hungary (Recorded).
7.0—Imre Magyari Cigány Band.

0—Thre Magyari Cigary Band.
0—Sports.
10—"The Three Musketeers"Play in Three Acts (Herczegh).
35—News.

9.35—News.
10.0—Dance Records.
11.0—Station Orchestra. Conductor:
Bertha. Matrosenwache (Charrossin). Tempo di minuetto
(Farkas). Waltz, The Dancing
Doll (Poldini). Selection, "The
Rose of Stamboul" (Fall).
Marchen (Schönherr). Waltz,
Les fleurs (Tchaikovsky). Selection, "Sybil" (Jakobi).
12.5 a.m. (Monday)—News.

COLOGNE

COLOGNE
658 kc/s (455.9 m.); 100 kW.
6.0 a.m.—Concert from Duisburg.
8.0—Weather; Water Level.
8.5—Poem (Ehrler).
8.15—Station Choir; Hildegard
Gaul (Soprano), Liselotte Mann
(Contralto), Heinz Vichmeyer
(Tenor), Erich Rummel (Pfte.).
9.0—For Hitler Youth.
9.30—Sunday Morning Programme.
10.0—Records.
11.0—Reading.
11.20—Cologne Chamber Trio.
Trio Sonata in E minor (Arme).
Viola da gamba and Harpsichord:
Sonata in D (Galuppi). Flute
and Harpsichord: Sonata in D
(Quantz). Three Pieces (Couperin).
12.0 noon—See Berlin. at 1.10

and Harpsichord: Sonata in D (Quantz). Three Pieces (Couperin).

12.0 noon—See Berlin; at 1.10 p.m.—News; Greetings.

2.0—Cologne Melodies.

3.0—Hints and Talks for Everyone.

3.25—For Children.

4.0—Sports Reports and Music from Deutschlandsender.

6.0—Forests—Sequence (Schnack).

6.30—Station Wind Band and the Hitler Youth Radio Ensemble. Conductor: Schulz-Dornburg (Recorded). Music of the Thirty Years. War (arr. Schulz-Dornburg). Trauermusik (Grieg). Festliche Musik (R. Strauss). Festliche Musik (R. Strauss). Festliche Ouvertüre (Höffer). Arbeitsmann (Maler). Mein stolzes Bauermvolk (Walters). Music to a Folk Play (Höffer). Radetzky March (Strauss—Haletzki).

7.20—Records; Barnabas von Geczy Band.

Platetzki). 20—Records; Barnabas von Geczy Band. 35—Sunday Events and Sports.

Band.
7.35—Sunday Events and Sports.
8.0—News.
8.16—"Poste restante, G.P.O.,
Budapest "—Operetta (Gutheim).
Conductor: The Composer.
10.0—News.
10.30—See Berlin.
12.0 m²t.-3.0 a.m. (Monday)—See
Hamburg.

DEUTSCHLANDSENDER 191 kc/s (1.571 m.); 60 kW. 6.0 a.m.—See Hamburg. 8.0—Weather; Records; Talk.

9.0—Herbert Fröhlich Band, Franz Wolf (Baritone), Willi Zimmermann ('Cello), Max Saals (Harp) and Herbert Jäger (Pfte.).
10.0—Meditation.
10.45—Wagner Records.
11.15—Weather.
11.30 — Adolf Wolff (Wurlitzer Organ), from the Kamera, Berlin.
12.0 noon—See Leipzig.
2.0 p.m.—"Der Eselskauf"—Fairy Play (Lennar).

Organ), from the Kamera, Berlin.
12.0 noon—See Leipzig.
2.0 p.m.—"Der Eselskauf "—Fairy Play (Lennar).
2.30—Concert Waltzes (Records).
3.0—Sports Reports: (a) The Amateur and Professional Road Cycling Races for the World Championship in Valkenburg, Holland, (b) The European Rowing Championships in Milan, (c) The European Light Athletics Championships in Paris, and (d) The International Riding Tournament in Insterburg—the Führer's Prize. In the intervals, Light Music by the Dobrindt and Michalek Bands, Carl Woitschach Wind Band, Paul Reich Accordion Duo, the Berlin Pfte. Trio, Herbert Köppke (Xylophone) and Franz Thon (Clarinet).
7.0—Nürnberg Echoes.
7.15—String Quartet and Georg Haentzschel (Pfte.).
8.0—Motto; News; Sports.
8.15—Interlude.
8.30—The Close of the Stuttgart Congress of Germans from outside the Reich.
10.01—News; Sports; Announcements.
10.30—Amo Erfurth (Pfte.). Sona-

10.01—News; Sports; Announcements.
10.30—Arno Erfurth (Pfte.). Sonatine (Sibelius). Dance Variations (Höffer).
10.45—Weather.
11.0—The World of Opera. Hamburg Opera Choir, Conductor: Max Thurn; and Hamburg Station Orchestra, Conductor: Secker (Recorded).
12.55 a.m. (Monday)—Time.
1.6-2.0—Music from Stuttgart.

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—Protestant Service.
8.45—Talk: Heredity.
9.0—Helmut Walcha (Organ).
9.45—Reading.
10.30—Male Voice Choirs.
11.0—Letters of German Children from Outside the Reich.
11.30—"In the Tyrol"—Sequence (Gath).

(Gath).
12.0 noon—See Berlin; at 1.0 p.m.

Sports.

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Luxembourg. Conductor: Hartmann.

()—Orchestra. Conductor: Naue. Luise Frank (Harp). Overture, "The Barber of Bagdad" (Cornelius). Prelude to Act 5, King Manfred (Reinecke). Dance of the Nymphs and Satyrs from "Amor und Psyche" (Georg Schumann). Excerpts from "The Mastersingers" (Wagner). Hungarian Rhapsody (Liszt). Waltz, "Der Rosenkavalier" (Strauss). Nocturne (Drigo). Polka-Pizzicato, "Les Millions d'Arlequin" (Drigo). Harp: (a) Impromptu-Caprice (Pierne). (b) La fille aux cheveux de lin (Debussy). Ballet Suite (Siede). Waltz, Dorfschwalben aus Oesterreich (Jos. Strauss). Overture, "Gipsy Love" (Lehâr). In the interval, Sports.

Love " (Lenar).

Sports.

Variety Programme with

Sports.

6.0 — Variety Programme with Records.

7.0—Dance Music by Schutz and his Merry Village Musicians.

7.30—Sports.

8.10—Station Orchestra. Conductor: Wemheuer. Overture, "Fra Diavolo" (Auber). Entr'acte and Ballet Music, "Ali Baba" (Cherubini). Barcarolle and Intermezzo, Italian Suite (Raff). Scènes pittoresques (Massenet).

9.0—Talk on the following Operetta.

9.10—"The Lovely Galate"—(Suppé).

(Suppe).

10.10—Time; News; Sports.
10.30—See Berlin.
12.0 m't.—See Stuttgart.
2.0-3.0 a.m. (Monday)—Music from Hamburg.

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; Report; Gym.

8.35—Records.
9.0—See Cologne.
9.30—Station Dance Band.
10.30—Protestant Service.
11.0 — Military Band from the Hagenbeck Gardens. Conductor: Hartmann. In the interval: A Walk through the Zoo.
12.15 p.m.—Music from Berlin.
2.0—"Heidefried!"—Fairy Play (Krausbauer-Brauns).
2.45—Talk: The Norwegian Fjords.
3.0—See Deutschlandsender.
7.0—A Day in Wesermünde.
7.45—Sports; Weather.
8.0—News.

7.0—A Day
7.45—Sports; Weather.
8.0—News.
8.15—Film Music. Station Dance
Band and Orchestra, Jadwiga
Kenda (Soprano), Helgar (Tenor)
and Gregor (Organ).
10.0—News.
10.15—See Stuttgart.
10.30—See Berlin.
12.0 m²t.-3.0 a.m. (Monday)
Serenade. Part I. Light Classical
Music. Station Orchestra. Conductor: Richard Müller-Lampertz
and the Jungberr Accordion Band.
Part II. Dance Music. Station
Dance Band. Conductor: Jan
Haffmann, Women's Trio, Male Part II. Dance Music. Station Dance Band, Conductor: Jan Hoffmann, Women's Trio, Male Voice Quartet, and the Station Choir, Gregor (Organ). Part III. Hamburg Mandoline and Guitar. Band. Conductor: Ellermann; Siegfried Trzeja (Accordion).

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 5.40 p.m.; 150 kW from 5.40 p.m.

5.40 p.m.

8.35-10.10a.m.—VARA Programme.

8.35-Records; Homing Pigeon
Notes; For Gardeners.

9.40—Jong (Organ).

10.10—VPRO Service.

11.40 a.m.-4.40 p.m.—AVRO Programme.

11.40—The Dutch Royal Anniversary: Talk on the National Festivities.

gramme.

11.40—The Dutch Royal Anniversary: Talk on the National Festivities.

11.55—AVRO Orchestra. Conductor: Treep; at 12.25-12.40 p.m.—Commentary on the World Championships for Road Cycling, for Amateurs and Professionals, from Valkenburg.

1.10—Talk from the Dutch Indies.
1.30—Records.
1.40—Talk: Books about the Dutch Royal Anniversary.
2.10—Schipper (Tenor).
2.40—Symphony Concert from the Kurhaus, Scheveningen. Residentie Orchestra. Guest Conductor: Neumark; Stotijn (Oboe), Emner (Violin). Jubel-Jouvertüre (Weber). Violin Concerto in A (Mozart). Serenade for Oboe and Orchestra (Appeldoorn). Two Norwegian Dances (Grieg). Entry of the Guests, "Tannhäuser" (Wagner). In the interval, Records.
4.10—Commentary from Valkenburg: The World Championships for Road Cycling, for Amateurs and Professionals.
4.40-7.40—VARA Programme.
4.40—Girl's Choir. Conductor; Mme J. v. Driel-Toet. Records in the intervals.
5.15—Records.
5.55—Sports; Records.
6.10—Commentary from Valkenburg: The World Championships for Road Cycling, for Amateurs and Professionals.

in the intervals.
5.15—Records.
6.10—Commentary from Valkenburg: The World Championships for Road Cycling, for Amateurs and Professionals.
7.40 till Close—AVRO Programme.
7.40—Time; News.
7.55—Symphony Concert from the Kurhaus, Scheveningen; Residentie Orchestra; Guest Conductor: Neumark; Simon Goldberg (Violin). Overture. Coriolanus (Beethoven). Romances in F and G for Violin and Orchestra (Beethoven). Serenade (Richard Strauss).

(Bettus).
Strauss).
8.40—Records.
8.50—Sound News.
9.10—" L'heure exquise"—French
Musette Music with Doddy

Combes.
40 — "Inspector Hornleigh Inspectioates"—Sketch (Priwin).

9.40 — "Inspector Hornleigh Investigates"—Sketch (Priwin).
9.55—Renova Quintet.
10.40—News; Report from Valkenburg: The World Championships for Road Cycling, for Amateurs and Professionals.
11.10—Records.
11.20—"Melody of Love"—Palla (Organ).
11.40—National Anthem.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 5.40 p.m.; 60 kW from
5.40 p.m. Also on Jaarsveld,
722 kc/s (415.4 m.); 17 kW.
8.10-9.10 a.m.—NCRV Programme:
Service

Service. 9.10 a.m.-4.40 p.m.—KRO Programme. 9.10—Records.

SUNDAY (September

9.40—High Mass for the Dutch Royal Anniversary. Celebrant: Rev. Fr. Hooyman, followed by Te Deum (Scheifes) and Organ Recital by the Composer.

11.40—Records.
11.55—KRO Orchestra. Conductor: Reinards. Overture, "The Caliph of Bagdad" (Boieldieu). Petite suite (Debussy). Au village (Baton). Au trot de mules (Baton). Waltz (Brahms). Selection, "Tiefland" (d'Albert).
12.40 p.m.—Book Review.
1.0—Orchestra (contd.). Selection, "La belle Hélène" (Offenbach). Sous les tilleuls (Massenet). Dorfkinder (Kálmán). Selection, "The Tsarevitch" (Lehár).
1.40—Talk: Amsterdam in 1898.
1.55—KRO Melodists. Conductor: Lustenhouwer. Klein (Songs), and Records.
3.40—For Invalids.
4.45—Records: Sacred Music.
5.30 — Service from the Jerusalem Church, Zwolle. After the Service, Records of Sacred Music.
7.25 till Close—KRO Programme.
7.25—Corones. 11.40—Records. 11.55—KRO Orchestra. Conductor

,25—Record; Talk. ,50—News. ,5—KRO Orchestra. Conductor:

8.6—KRO Orchestra.

Reinards.
8.40—"Forty Years in E.
Minutes"— A Cavalcade
Queen Wilhelmina's F.
(Eerens).
10.0—Records.
10.10—Press Review.
10.20-10.40—Choral Epilogue. Eighty de of Reign

KALUNDBORG

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.). 57 a.m.—Weather and Gym. 45—French Talk: Madagascar. 6—German Talk: Goethe und

die Frauen. 9.15-English Talk: Rhubarb Un-

die Frauen.

9.15—English Talk: Rhubarb Unnecessary.

9.30—Talk: Schools.

10.0—Church Service.

11.28—Weather; News.

12.0 noon—Mogens Hansen Ensemble. Persian March (Strauss).

Overture, "Prince Methuse'ah" (Strauss).

Waltz (Lanner).

Coquette (Arensky). Nubian Desert Song (Amani). Souvenir (E. L'Orange). Selection, "Cavalleria rusticana" (Mascagni). Overture, "La Mascotte" (Audran). Selection, "I Zingari" (Leoncavallo). Forgetme-not (Macbeth). Waltz, "Der Bettelstudent" (Millöcker). Bercuse (Andersen). Valse triste (Sibelius). Waltz - Intermezzo (Zemlinsky). Tango (Valverde). The Boys of Tipperary (Amers); at 12.50 p.m.—Reading.

2.0—Service from Christiansborg Castle Church.

3 20—Stolz Repords

ceuse (Andersen). Valse triste (Sibelius). Waltz - Intermezzo (Zemlinsky). Tango (Valverde). The Boys of Tipperary (Amers); at 12.50 p.m.—Reading.

2.0—Service from Christiansborg Castle Church.

3.20—Stolz Records.

3.30—For Children.

4.0—Open-Air Band Concert. Conductor: Hye-Knudsen. Vilhelm Aarkrogh (Trombone). Prelude, "The Mastersingers" (Wagner). Selection, "La Bohème" (Puccini). Overture, "Mignon" (Thomas). Kol Nidrei (Bruch). Third Movement from the Pathetic Symphony (Tchaikovsky).

4.45—Report from Charlottenlund: The Scandinavian Trotting Championships.

4.55—Band (contd.)—March (Svanberg). Excerpts, "Coppélia" (Delibes). Trombone: Caro mio ben (Giordano). Loin du bal (Gillet). Selection, "Molboerne" (Jespersen). Swedish March. Champagne Gallop (Lumbye).

6.0—Music for Oboe and Coranglais. Plaisir d'amour (Martini). Villanelle (Flégier). Londonderry Air. Intermezzo (Agerby). Den gamle Bondekonenynner (Lauridsen).

6.20—Talk: Søren Kierkegaard.

6.50—Weathèr; News; Sports.

7.30—Talk by Robert Storm Petersen.

7.45—The 1940 Olympic Games—Talks by the Members of the

7.30—Talk by Robert Storm Petersen.
7.45—The 1940 Olympic Games—Talks by the Members of the Danish Committee; Music by Preil's Ensemble.
8.0—Conservative Youth Festival from Koldinghus Castle. Addresses; Community Singing.
9.0—West Jutland Evening from Korsor. Lauritz Hansen Folk Orchestra and Else Minona (Songs). Folk Song. Address by H. Bjerregaard-Buch. Korsør Jubilce March (Jensen). Folk-Song Petpourri (Hansen). Address by the Mayor, J. P. Hansen. Songs: (a) Hvor er du dog, min

søde Ven (Hillebrandt). Mette og Herremanden (Bogh). Den nye Vise (Møller). Reading. Slagelse Tattoo (Albrechtsen). Waltz (Madsen). Polka-Mazurka, Juliette (Jørgensen). Gallop (Jen-sen)

sen).
10.0—News.
10.20—Louis Preil's Ensemble.
11.15 p.m.-12.30 a.m. (Monday)—
Preil's Dance Band and Victor
Cornelius (Refrains); at 12.0 m't,
—Chimes.

KÖNIGSBERG (Heilsberg) 1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.) 6.0 a.m.—See Hamburg. 8.0—Records. 9.10—Protestant Service. 10.0—Address.

10.0—Address.
10.30—Records.
11.0—Weather; Announcements.
11.20—" Lenau "—Sequence (Ruk-

schio).
12.0 noon—See Leipzig.

2.0 p.m.—Chess. 1.2.30—Variety Programme.
3.0 — See Berlin (Deutschlandsender.)
7.0—"Comrade, where are you?"

7.0—"Comrade, where are you?"
7.40—Sports.
8.0—News; Weather.
8.15—Variety Concert. Orchestra,
Dance Band, Töpfer Duo, Songs
to the Lute, etc.
10.0—News; Sports.
10.15—Reports: The International
Riding and Driving Tournaments
at Insterburg-Trakehnen.
10.30—Sports.
10.40—Music from Berlin.
12.0 m't.-3.0 a.m. (Monday)—See
Hamburg.

Hamburg.

LEIPZIG

LEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.)

6.0 a.m.—See Hamburg.

8.0—Light Classical Records.

8.30—Adolf Wieber Improvisations by the Composer (Organ) from the Stadtkirche, Wittenberg.

9.0—See Cologne.

9.30—Morning Serenade by the Hitler Youth Radio Ensemble.

10.0—Records.

11.40—Robert Lindenbaum reads.

12.0 noon—Leipzig Symphony Orchestra. Conductor: Curt Kretzschmar. Leo Hetzer (Saxophone). Polonaise in A (Chopin). Overture, "The Force of Destiny" (Verdi). Piece from Carnival Pictures (Nicodé). Selection, "The Girl of the Golden West" (Puccin). Erinnerung (Keller). Valse caprice (Keller). Tarantella from Venezia e Napoli (Liszt). Saxophone Concerto (Eibe). Overture, Fest in Schönbrunn (Löhr). Concert Waltz (Glazunov). Nocturne, Exotisches Wiegenlied (Gebhardt). Selection from "Tiefland" (d'Albert). Ballszenen (Hellmesberger). Italian Caprice (Tchaikovsky).

2.0 p.m.—Time; -Weather.

2.5—Records.

3.30—Songs. Sixteenth Century Song. Botschaft (v. Schillings). Julinacht (v. Schillings). Zur Johannisnacht (Grieg). Unter Blüten (Tunk). Heimliche Aufforderung (R. Strauss).

4.0—Sports Reports and Music from Deutschlandsender.

7.0—Salzburg Festival: "Don Giovanni" (Mozart) from the Festspielhaus (in Italian) (Recorded), Vlenna Opera Choir and Philharmonic. Conductor: Karl Böhm. Cast: Ezio Pinza, Virglio Lazzari, Anton Dermota, Elisabeth Rethberg, Hilde Konetzni, Maria Cebotari and Karl Etti; at 8.35-8.45—News.

10.15—News; Sports.

10.40—Music from Stuttgart.

12.0 m²t.-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 6.30 a.m.
4.45 p.m.—Concert.

4.45 p.m.—Concert.
5.30—Records.
6.50—Talk: Careers.
7.0—See Paris (Radio-Paris).
7.30—Radio Journal; Weather.
8.0—Records; at 8.9—Sports.
8.10—Talk on the following Pro-

8.15-11.30 (also Toulouse (PTT) and Limoges (PTT))—"Carmen" (Bizet), from the Opéra-Comique, Paris, Conductor: Bigot. After the Programme, News.

SUNDAY (September 41

MONTE CENERI 1,167 kc/s (257.1 m.); 15 kW. 11.30 a.m.—Announcements; Bible Reading. 12.0 noon—Records. 12.29 p.m.—Time; News; Orches-

tra.

1.30-2.0—Records.
6.30—Melodia Choir from Chiasso.
7.0—Sports; Records.
7.50—News.
8.0—Italian Music. Conductor:
Nussio. Selection, "The Secret
Marriage" (Cimarosa). Sinfonia
Divina in D minor (Boccherini).
Overture, "William Tell" (Rossini)

sini).

8.40—"La Scuola del Matrimonio"
—Play in Three Acts (Geza Vago, Italian Trans. Castelli),

9.40-10.15—Dance Records.

MOSCOW

172 kc/s (1,744 m.); 500 kW. and 300 kc/s (1,000 m.); 100 kW.

Transmits at intervals from 4.0 p. 6.0 p.m.—Concert or Co.

Transmits at intervals from 4.0 p.n.
6.0 p.m.—Concert or Opera (R
cords); at 6.30—Politics; at 7
Literature.
9.30—News; Kremlin Chimes.
10.0 p.m. - 1.0 a.m. (Monda
1,744 m. only.
10.0—Talks (English, French).
12.0 m't.—Spanish Programme.

MINICH

MUNICH
740 kc/s (405.4 m.); 100 kW.
Relayed by Nümberg, 1,267 kc/s (236.8 m.).
6.0 a.m.—See Hamburg.
8.0—Roman Catholic Service.
8.30—Station Orchestra, Rudolf Helfreich ('Cello).
9.30—Gustav Schoedel (Organ).
10.9—"The Sudeten Germans"—
Literary Programme to Music of Gluck, Stamitz and Schubert.
11.0—Records.
12.55 p.m.—Time; Weather.
11.0—Station Orchestra, Mihalovic (Violin). Ilse von Tschurtschenthaler (Pfte.), and Peter Fiering (Concertina). Overture, "The Secret Marriage" (Cimarosa) Scherzo and Minuet (Schubert).
Ballad (Chopin). Autumn Gold (Brusso). Habanera (Schubert).
Ballad (Chopin). Autumn Gold (Brusso). Habanera (Schubert).
Glückliche Menschen (Carste).
Cuban Serenade (Mausz).
Polichinelle and Humoresque (Rachmaninoff). Overture, Ein Fest in Schönbrunn (Löhr).
Violin: Canzonetta (Tchaikovsky). Spanish Waltz (Kletsch). Selection from "Heut' bin ich verliebt "(Corzilius). Paraphrase on Joh. Strauss's Tales from the Vienna Woods (Schütt). Waltz, Kastagnettenklänge (Richartz). Intermezzo (Alex). Spanish Ballet (Zander). Pieces (Mahr):

Joh. Strauss's Tales from the Vienna Woods (Schütt). Waltz, Kastagnettenklänge (Richartz). Intermezzo (Alex). Spanish Ballet (Zander). Pieces (Mahr):

(a) Allotria, (b) Auf der Konzertina. Märchenspiele (Heumann). Lachende Welt (Noack). 3.0—See Deutschlandsender. 7.0—Song Records. 8.0—Time; News; Weather. 8.10—Concert for the Eve of the Reich Party Congress. Station Orchestra. Conductor: Winter. Willy Stuhlfauth (Violin). Erich Wilke ('Cello). Feierlicher Einzug (Strauss). Concerto for Violin, 'Cello and Orchestra (Brahms). Les Préludes (Liszt). Deutschland-Sinfonie (Roderick von Mojsisovics), Conductor: The Composer. 10.0—Time; News; Sports. 10.30—Light Music. 12.6 m°t.-3.0 a.m. (Monday)—See Hamburg.

12.0 m't.-3. Hamburg.

NAPLES 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), Genoa (No. 2) and Ancona, 1,357 kc/s (271.1 m.).

(No. 2), Turin (No. 2), Genoa (No. 2) and Ancona, 1,357 kc/s (221.1 m.).

8.39 a.m.-2.15 p.m.—See Rome Group.

5.15—"Ernani" (Verdi). Conductor: Molajoli (Recorded). After the Opera, Announcements; Sports.

7.0—Trento Choir.

7.25—Sports; Records.

8.0—See Rome Group.

8.30—Light Orchestral. Conductor: Gallino. Overture, "Boccaccio" (Suppe). Concert Waltz (Culotta). L'Espagne de Montmartre (Dyck). Ballet Music, "Faust" (Gounod). Spanish Legend (Rust). Wiener Spezialitäten (Hruby). Festival at Santa Lucia (Ferraris).

9.15—To be announced.

9.30-Song Potpourri by the Radio Orchestra.

10.0 (approx.)—Dance Music.

11.0—News.

11.15-11.55—Dance Music.

OSLO

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

9.45—Reading.
10.5—Records. Overture, "Die Zwillingsbrüder" (Schubert).
Pfte. Sonata in A flat minor Zwillingsbrü Pfte. Sonat (Beethoven).

Zwillingsbrüder " (Schubert).
Pfte. Sonata in A flat minor
(Beethoven).
10.25—Service.
12.40 p.m.—News.
1.0—Records : Marches.
1.15—Sports Notes.
3.39—Norwegian Folk Music by
Kristen Vang (Violin) and
Roheim (Hardanger Fiddle).
5.5 — Bergen Radio Orchestra.
Marche des petits Pierrots (Bosc).
Grossmütterchen (Langer). Summer Afternoon Idyll (Merikanto).
Butterflies (Lehâr). Ay, Ay, Ay
(Freire). Once upon a time
(Lange - Müller). Gavotte
(Godard). Largo (Handel). Caro
mio ben (Giordano). Gopak
(Mussorgsky). Canzona del
Violino (Schebek). Aus dem
Buch der Liebe (Löhr). Spanish
Gipsy Dance (Marquina).
6.0—International Football Match
Report : Norway v. Finland.
6.29—Concert. Part I. Duets by
Wallin (Violin), Stein Musum
(Guitar). Part II. Negro
Spirituals sung by Henry Moe.
6.55—News.
7.15—Station Orchestra. Conductor: Kramm. Excerpt, "The
Student Prince" (Romberg).
Fanny Elssler (Schröder). Viennese
Potpourri (Hruby).
7.50—Talk.
8.15—Suites, Peer Gynt (Grieg) by
the Station Orchestra. Conductor: Kramm.
8.50—"The Silver Wedding"—
Sketch (Fischer).
9.15—Jazz Duets by Cecil Aagaard
and Freddy Valier,
S.40—News: Topical Talk.
10.15—Dance Records.
10.50-11.0—News.

PARIS (Eiffel Tower) 1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m. 3.15 p.m. — Marguerite Revellin

3.15 p.m. —

1 ransmits at intervals from 6.30 a.m.
3.15 p.m. — Marguerite Revellin (Songs).
3.30—Dominique Jeanes (Pfte.).
Napoli (Poulenc). Minstrels (Debussy). Danse sauvage (Ralton).
Etude in F sharp (Stravinsky).
Gorcorado (Milhaud).
3.45—Diana Corke (Songs).
4.40—Records.
4.45—See Lille.
5.30—Maryse Tenneval (Songs) and Gisèle Kuhn (Pfte.). Pfte.: (a)
Tango (Roesgen-Champion), (b)
French Rondo (Y. and M. Aaron). Songs (Vierne, Fourdrain, Duparc). Pfte.: (a) Impromptu (Pierne), (b) Jeux d'eau (Ravel).
7.0—Concert from Toulouse (PTT).
7.30—Radio Journal; News.
8.0 — Fauré Noctumes and Barcarolles Mand Laury (Songs).

1.80—Radio Journal; News.
1.80—Rauré Nocturnes and Barcarolles. Maud Laury (Songs) and Emile Passani (Pfte.). Songs:
(a) Au bord de l'eau, (b) Nocturne. Pfte.: Barcarolle. Songs:
(a) Soir, (b) Barcarolle. Pfte: Nocturne. Songs: (a) A Clymene, (b) Clair de lune.
1.30—Variety "Paysanneries"—Songs, Refrains, and Sketches; "Les Paysans"—Play (Leclercy).

clercq). 10.30—Records. 11.0-11.15—News; Weather.

11.0-11.13—News; Weather.

PARIS (Poste Parisien)
959 kc/s (312.8 m.); 60 kW.
8.0 a.m.—Records.
9.0—News; Menus.
9.0—News; Records.
12.0 noon—Announcements; Records; Amusements.
12.30 p.m.—"Le petit courrier en musique" (Nohain-Kubnick).
12.45—News.
1.0—"La course au trésor" with Pierre Dac.
1.10—Vocal Quintet with Raymond Souplex and Jane Sourza.
1.45—Talk: Debussy.
2.0—News; Records.
2.35—Sports Report.
5.0—Records: Light Music.
7.0—News; Sports Notes.

7.23—Amusement Guide; Records 7.45—Records: Roger Bourdin and 45—Records: Roger Bourdin and Gabrielle Rouzaud (Songs).

Gabrielle Rouzaud (Songs).
8.0—Topical.
8.5—"Les Frères Jacasse."
8.10—"4 Septembre" (ChaBrun-André Ferrières).
9.0—Amateurs' Programme.
10.0—News; Cabaret.
10.30—Records: Light Music.
11.30—News. (Charles

PARIS (PTT)
695 kc/s (431.7 m.); 120 kW.
6.30-6.45 a.m.—News; Records.

6.30-6.40 a.m.—News; Records. 7.15—Records. 8.0—Talk; Records. 8.30—News; Records. 9.0—News; For Farmers; Records. 10.30—Sound News; Sports. 11.0—Concert from Alpes-Grenoble

11.0—Concert from Alpes11.0—Concert from Alpes(PTT).
11.30—Records.
11.45—Talk by Pierre Descaves.
12.0 nuon—Pascal Orchestra. Monhomme (Yvain). Le chant du souvenir (Ftiipucci). Czardas, "Der Geist des Wojewoden" (Grossmann). The Gnomes' Rendez-vous (Cardoni). Stances (Flégier). Le moulin normand (Warms). Buena Estacada (Lucchesi). Waltz (Waldteufel). Roses of Picardy (Haydn Woodel). (Warms) Buena Estacada (Lucchesi), Waltz (Waldteufel) Rose of Picardy (Haydn Wood-Chapelier), Fantasia on Spanish Airs (Broustet), Piece (Hauchart). Paraphrase on Hungarian Melodies (Padouck), Berceuse de Jocelyn (Godard), Romania (Léoni). Chanson intime (de la Presle-Chapelier), Dance of the Merry Mascots (Ketelbey). Bessarabka (Michaelov). American March (Sousa); at 12.45 p.m.—News; Sports; and at 1.15—Marguerite Soyer (Songs).
2.0—Dramatic Programme. Part I. "Peg o' my Heart"—Play in Three Acts (Hartley Manners, French trans, Yves Mirande and Maurice Vaucaire), with Germaine Risse, Nadine Picard, and Pierre Stephen, etc. Part II. "A louer meublé"—One-Act Play (d'Hervilliez).
4.0—Records: Light Music.
4.30—Gras Orchestra—Marche provençale (Ganne). Waltz, Les Roses (Métra), Foxtrot, Good Fellows (Ourdine). Selection, "La fille de Madame Angot" chesi) Wanz of Picardy (Piar) Fantasia Piece

30—Gras orchestra—Marche provençale (Ganne). Waltz, Les Roses (Métra). Foxtrot, Good Fellows (Ourdine). Selection, "La fille de Madame Angot" (Lecocq). Foxtrot, Cry Baby, Cry (Eaton). Romance (Grunfeld). Waltz, La vagabonde (Delettre). Foxtrot, Les trois mandarins (Misraki). Chanson (Friml). Mosaïque provençale (Seringès). Selection, "Miss Decima" (Audran). Waltz (Emer). L'allègre brigade (Léonardi). 30—Report from the Colombes Stadium: European Light Athletics Championships.

letics Cham 15—Records

6.45—Records,
7.0—Radio Journal; News,
8.0—Les Frères Jacques present
Pierre Mingand.
8.30 (also Marseilles (PTT) and
Alpes - Grenoble (PTT)) —
"L'étourdi"—Play in Five Acts
(Molière).
10.30—News; Dance Records.
11.0—See Paris (Radio-Paris).

PARIS (Radio-Paris)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programme Notes.
6.30—Time; News; Records.
7.35—Gym; Records.
8.29—Time; News; Records.
9.15—Talk; Records.
10.30—Classical Records.
Violin Concerto in D minor (Wieniawski) by Heifetz and the London Philharmonic. Conductor: Barbirolli. Overture, "Le corsaire" (Berlioz) by the London Philharmonic. Conductor: Sir Hamilton Harty.
11.40—Programmes; Records.
11.30—Grunnenwald (Organ). Trio Sonata (Bach). Three Sketches (Schumann). Auctor beate (Lesur). Aver maris Stella (Lesur). Grave (Grunnenwald).
12.0 noon—Roman Catholic Address.
12.20 p.nt.—Records: Sacred

Grave (Grunnehwaid).
12.0 noon — Roman Address.
12.20 p.n. — Records: Sacred Music.
12.30—Records: Light Music.
1.0—Time; News; Weather.
1.15—Records: Old English Dances.
1.30—Peyron (Songs).
1.45—Records. Overture (Bax) by the London Philharmonic, Conductor: Sir Hamilton Harty, Marche funebre d'une marionnette (Gounod) by the Lamoureux Concert Society, Conductor: Albert Wolff.
2.0—Sound News.

Albert Wolff,
2.0—Sound News.
2.10—For Young People,
3.0—Linières and Peyron (Duets),
Barcarolle (Thomé), L'absence
(Maréchal), Le cygne (Saint-Saëns), Réveil (Chausson).

3.15 — "Un scélerat"—Detective Play (Cossin) with the Author in the Cast. 3.45—Cib and Lette (Duets).

the Cast.
3.45—Cib and Lette (Duets),
4.0—Two Plays: (a) "Le P.N.
32" (Dyke-Noel—Lyrel), (b)
"Le Grand Prix de Lucerne"
(Camille Hornung),
5.0—Visciano Orchestra, Cortège
burlesque (Chabrier), Valse romantique (Sibelius), Der Nussbaum (Schumann), Marche des
petits faunes (Pierné), El Deizair
(Visciano), Phantom Fingers
(Mordisch), Le colibri (Chausson), Suite, Aus Holbérgs Zeit
(Grieg), Cavatina (Raff), Spanish
Dances (Moszkowski), A l'ombre
des Pyramides (Lucches), Logis
du rêve (Yvain), Trees (Rasbach),
Pasodoble, Rie guitarra (Mostazo),
Torna a Surriento (de Curtis),
Selection, "Der Rosenkavalier"
(Strauss), Elégie (Borda), La
petite église (Delmet), Alsatian

Torna a Surriento (de Curtis). Selection. "Der Rosenkavalier" (Strauss). Elégie (Borda). La petite église (Delmet). Alsatian Dances (Levadé). 1.0—Radio-Paris Circus. Bilboquet's Parade; "Tour le monde à la cour"—Sketch, by Piţie and Risalti, Macaron, Cordial, the Gaudrey Orchestra, and Rolande Gardet. 1.30—Monologues by Lafon. 1.45—La Houppa (Songs). 1.59—Time; Home Affairs. 1.8.8—Foreign Affairs. 1.8.8—Foreign Affairs. 1.8.15—Loulou Hegoburu (Songs). 1.59—Time; Home Affairs. 1.8.15—Loulou Hegoburu (Songs). 1.59—Tiergue, Germaine Martinelli (Songs). Overture, "Promethée" (Emmanuel), Ballet Suite (Gal). Les jeux rustiques (Beydts). Symphony (Gedalge); at 9.30—News; Press Review. 10.35—Sound News. 10.35—Sound News. 10.35—Sound News. 11.6—Dance Music. 12.30 a.m. (Monday) — Programmes.



Exclusive "World-Radio" Picture Madame Loulou Hegoburu, who sings at Radio-Paris at 8.15 p.m.

PRAGUE 638 kc/s (470.2 m.); 120 kW 6.30 a.m.—Records; News, 7.0—FOC Orchestra. Conductor Parik. Sroubek (Violin). Cerny

Parik, Sroubek (*Cello).

Police Messages; Records,

O-Police Messages; Records,

O-Police Messages; Records,

O-Police Messages; Records,

O-Police Messages; Records,

Malation September

As Meditation: September

45 — Meditation: September Psalm. 0—Gothic Suite (Boellmann) by Vojtek (Organ). 15—For Workers; Records. 40—Report: The Prague Sample

5.43—For workers; Records;
5.40—Report: The Prague Sample
Fair.
9.55—Moravská-Ostrava Radio Orchestra, Hromádka (Tenor) and
Cerny (Violin) (Recorded).
10.25—Literary Talk.
10.55—Book Review.
11.0 — FOC Orchestra, Marta
Krásová (Contralto) and Zoubek
(Violin) (Recorded).
12.0 noon — Chimes; Press;
Weather.
12.25 p.m. — Orchestra from
Moravská-Ostrava.

.25 p.m. — O Moravská-Ostrava,

1.50—For Farmers. 2.5-2.30—Records. 3.30—Kosice Radio Orchestra (Re-

3.30—Kosice Radio Orchestra (Recorded).
4.0—Military Band from Královská-Obora. Conductor: Pesta, 5.0—"The Only Man"—Play (Marie Balcarová and Viednerová).
5.15—Light Music by the FOC Orchestra, M. Pixová (Contralto), Fleischhans (Saxophone) and Maxian (Pfte.) (Recorded).
6.15—Talk: Film Stories.
1.30—Dance Music. In the interval, Records.

val, Records.
7.0—News; Topical.
7.20 — Balsanek Salon Orchestra.
Mleinek and Vacek (Songs).
7.45—Talk: Parents of To-day.

8.0—" Polenblut " (Nedbal). 9.55—News; Sports. 10.20—Horse Racing Results. 10.25-Records. 10.35-11.30-See Brno.

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.).

(24.9 m.), 1.30 p.m.—Records, 3.5—All-Ireland Hurling Final. Commentator: David Hanley, 5.0—Military Band Records; Michael O'Higgins (Baritone);

5.0 — Military Band Records; Michael O'Higgins (Baritone); Songs.
6.0—Esperanto Talk: Cultural Influences in Ireland.
6.15—Meyerbeer Opera Records.
6.45—Talk on Yachting.
6.55—Choral Records.
7.20—Dan Byrne and Joe Duffy (Entertainers);
7.35—The Musical Knights (Songs).
8.5—Talk by Rev. J. M. Hayes: A Rural Week-end at Ardmore.
8.20—My Favourite Pieces and Why—J. T. Horne (Organ), from St. Finbarre's, Cork.
8.50—Austin Stack Ceilidhe Band.
9.20—Sport Review by J. L. Brennan.
9.30—Variety.
10.30—News.
10.40—Gaelic Sports Talk by Scan O'Ccallachain.
11.0—National Anthem.

RADIO-NORMANDIE

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

1,411 kc/s (212.6 m.); 15 kW.
6,25 a.m.—Nos vieux pommiers (Dior).
6,30—Press Review.
6,40—Talk by M. Mistler.
7,0—Radio Reveille; at 7.15 and 7.30—Time.
7,45—Sacred Music. In the interval, The Thought for the Week by the Rev. James Wall, M.A.
8,0—March of Melody.
8,15—Time; Breakfast with Health.
8,30—News.
8,40—Your Message from the Stars.
8,45—The Songs we know them by.

by.
0—Time; The Big Little Show.
15—The Organ, Some Records and Me, compèred by Donald 9.15

9.15—The Organ, Some Records and Me, compèred by Donald Watt.
9.30—Felix Mendelssohn's Orchestra, with Muriel Kirk and Ronald Sherwood.
9.45—Fun Fair, with Fred Douglas, Wyn Richmond and Company.
Barrel-Organ arrangements by Signor Pesaresi.
10.0—Time; I've brought my Music—Harry Jacobson (Songs and Pfte.).
10.15—Carson Robison and his Pioneers.

Pioneers.
10.30—Eddie Pola and his Twisted

Pioneers.
10.30—Eddie Pola and his Twisted Tunes.
10.45—George Formby, Beryl, etc.
11.0 — Time; Donald Peers — Cavalier of Song with Arthur Young.
11.15—Radio Parade, with Elsie Bower, Billy Rutherford, Wyn Richmond, Wilfrid Thomas and Bobby Howell's Band.
11.45—Mass for the Unveiling of the King Albert I Memorial from Sainte-Adresse.
12.20 p.m.—News.
12.40—Roman Catholic Address.
1.0—Request Music.
1.30—Radio Theatre, with Teddy Joyce Orchestra and Diana Churchill.
2.0—Time; Billy Cotton and his Paradio Theatre, Phyllis

Churchill.

2.0—Time; Billy Cotton and his Band, Fred Duprez, Phyllis Robins, Peter Williams, Alan

Breeze, etc.
2.30—Phil Park (Organ).
2.45—The Open Road.
3.0—Time; Serenade to Melody with Jack Jackson's Orchestra, Barbara Back and a Star of

Barbara Duk To-morrow. 30—Ray Noble and his Örchestra with Marian Manners. 45—The Movie Club—Intimate Glimpses of Hollywood by Colin Gooper, with Bert Firman's

Cooper, with Bert Firman's Orchestra.

4.0—Debroy Somers Orchestra with Charles Laughton, Gertrude Niesen, Oliver Wakefield, Jack Kerr, Rosalyn Boulter, etc.

5.0—Time; Peter the Planter presents the Plantation Minstrels.

5.15—Carroll Levis and his Radio Discoveries.

5.30—Hutch—Romantic Singer.

5.45—Variety with Uncle George, Helen McKay, Johnnie Johnston and Orchestra. Conductor: Kinsman. and Orchestra. Cond Kinsman. 0—Harold Ramsay (Organ).

6.9—Harold Ramsay (Organ).
6.15—Showland Memories—Musical Cavalcade of Theatreland Past and Present, with Webster Booth, Olive Groves and the Showlanders.

6.36—Radio Revue with Jack
Hylton and his Band, Sam
Browne, Molly, Mary and Marie,
Peggy Dell, Vass Family, Tommy
Handley, the Henderson Twins.
Compère: Eddie Pola.
7.0—Time; The Ace of Hearts
Orchestra.
7.15—Good Mixers—Eve Becke,
Leonard Henry and Oscar Rabin
and his Romany Band.
7.30—News; Sports.
8.0—Concert.
9.0—Humorous Programme.
9.50—Talk by M. de Chappedelaine.

9.50—Talk by M. de Chappede-laine.

10.0—At the Seaside—a Holiday for the Whole Family. Compère: Roy Plomley.

10.30—Sunshine Serenade.

10.45—Time: Advance Film News;

Music. 11.9—Time; Vaudeville. 11.15—Czechoslovak Picture Book. 11.30—Normandie Playbill—An-

11.30 — Normandie Playolii — Announcements; Music,
11.45—Romanian Concert,
12.0 m't.— Melody at Midnight,
12.30-1.0 a.m. (Monday)—Time;
Dance Music,

RENNES-BRETAGNE

NEINNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.

7.0 p.m.—Radio Journal; Weather.

7.30—Sports; Records.

8.0—See Paris (PTT).

8.36—See Paris (Eiffel Tower).

10.30 (approx.)—News; Concert.

REYKJAVIK
208 kc/s (1,442 m.); 100 kW.
11.45 a.m.—Concert. Serenade in
D (Beethoven). Pfte. Concerto
in A (Brahms).
12.40 p.m.—Weather (Icelandic,

nn A (Branns).

12.40 p.m.—Weather (Icelandic, English, German).

1.0—Service from the Cathedral.

2.0—Light Music.

5.30—Light Classical Music.

9.10—Weather (Icelandic, German, English); Music.

9.40—News; Foreign Affairs.

English); Foreign Affairs.

10.15—Reading.

10.40—Arias.

11.5—Recital.

11.35 p.m. - 2.0 a.m. (Monday)—
Dance Music.

ROME GROUP

OME 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.); and Milan (No. 3), 1,429 kc/s (209.9 m.).

m.). .30 a.m.—Time; News. .50—Napolitano (Organ) from the Basilica del Carmine Maggiore,

Naples.
9.15—For Soldiers.
10.0—Rural Programme.
11.0—Mass from the Basilica of the Annunciation, Florence.
12.0 noon—Bible Reading.

12.20 noon—Bible Reading.
12.20 p.m.—Sports; Records.
1.0—Time; News.
1.15—Cetra Orchestra.
1.45-2.15—Records.
5.15—Variety Concert; at 6.0—

1.45-2.15—Records.
5.15—Variety Concert; at 6.0—
Sports.
6.45-7.0 — Sports Report: The Finals of the European Rowing Championships.
7.25—Sports; Records.
8.0—News; Talk; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
7.0—"The Mastersingers" (Wagner). Conductor: Giuseppe del Campo. Chorus Master: Costantini. Cast: Tancredi Pasero, Luciano Neroni, Aldo Ferracuti, Mario Biunchi, Afro Poli, Gregorio Pasetti, Mario Borgato, Mario Giusti, Nino Mazziotti, Luigi Bernardi, Bruno Sbalchiero, Gino Conti. Aurelio. Marcato, Gino Del Signore. Sara Scuderi and Edmea Limberti. In the intervals, Talks (Italian and Danish) and News.

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—Protestant Address. 2.30—Records

Willy Koester (Píte.), Friedrich Rubien (Violin) and Willy Englert (Cello). 4.0—Light Classical Music. Station Orchestra. Conductor: Kasper. Melitta Wittenbecher (Soprano). Luitpold Ganther (Tenor) and Willi Schneider (Bass-Baritone).

6.0—See Berlin.
7.0—Our Curio Cabinet—Talk and Records.

7 30-

8 10

Records.
30—Sunday Sports and Events.
0—Time; News.
10—Variety Concert, Station Orchestra. Conductor: Jung, Dance
Bands and Vocal Ensembles.
Willi Lorscheider (Songs). Fritz
Neumeyer (Pite. and Harpsichord), Wilhelm Pitz (Viola da
Gamba).

Gamba).

10.0—Time; News; Weather.

10.30—See Berlin.

12.0 m²t.-3.0 a.m. (Monday)—See 12.0 m't.-3. Hamburg.

SOTTENS

SOTTENS

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s (748 m.).

9.40 a.m.—Chimes.

9.45 — Protestant Service from Laussanne Cathedral.

11.0 — Classical Records. Two Songs (Martin Luther) by the Berlin Academy Choir and Philharmonic Orchestra. Conductor: G. Schumann. Suite in C. (Bach) by Casals ('Cello). Violin Concerto in G. minor (Bruch) by Yehudi Menuhin and the London Symphony Orchestra. Conductor: Sir Landon Ronald.

12.0 noon—Request Records.

12.30 p.m.—News; Weather.

12.40-2.0—Request Records.

6.0—Protestant Address.

6.30—Records. Pfte. Concerto in B (Mozart) by Elly Ney and Chamber Orchestra. Conductor: van Hoogstraten. Erb (Tenor):

(a) Dass Sie hier gewesen (Schubert), (b) Andenken (H. Wolf).

Chamber Orchestra. Conductor: van Hoogstraten. Erb (Tenor): (a) Dass Sie hier gewesen (Schubert), (b) Andenken (H. Wolf).
7.0—Roman Catholic Address.
7.30—Music; Announcements.
7.50—News; Sports.
8.20—Report by Vico Rigassi: The European Rowing Championships at Milan (Recorded).
8.30—Report: The Lausanne Dog Show.

at Milan (Recorded).

8.30—Report: The Lausanne Dog Show.

8.50—Raymond Croptier (Pfte.). Impromptu in B flat (Schubert). La Cathédrale engloutie (Debussy). Two Tangos (Raymond). Rondo sentimental (Martin).

9.15—Lausanne Soirée. Instrumental Ensemble, The Lausanne Orphéons, Conductor: Schmiedeli, Military Band, Conductor: Rene Diserens, Lausanne Male Voice Choir, Conductor: Carlo Boller, Workers' Band, Conductor: Strani, Helvetia Mixed Choir, Conductor: Rochat, Prilly Band, Conductor: Rochat, Prilly Band, Conductor: Lang (Recorded).

Choir. Conductor: Lang (Recorded).

10.5-11.0—Music and Poetry. Paul Sandoz (Baritone), Moser (Organ) and Yette Perrin (Recitations). Organ: Psalm XVIII, I Cicli immensi (Marcello). Four Melodies for Baritone and Organ. Four Poems. Baritone and Organ. Four Poems. Baritone and Organ. (a) Ave verum (Mozart), (b) Ave Maria (Kahn), (c) La Procession (César Franck), (d) Non credo (Widor). Three Poems. Organ: Chaconne (Pachelbel).

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.); Göteborg, 941 kc/s
(265.3 m.); and Boden, 392 kc/s
(765 m.).

0 a.m.—Weather; For Farmers.
35—Records: Second Symphony
(Sibelius) by the Boston Symphony Orchestra. Conductor:
Koussevitzky.

0.20—Report from Hola High
School: The Swedish Broadcasting Company's Conference on
Adult Education.

1.0 — Service from Varberg
Church.

Adur
11.0 — Service
11.0 — Service
Church.
12.40 p.m.—News; Weather.
1.0 (from Göteborg)—Military Band
from Liseberg. Conductor:

7.50—Topical.
8.0—Protestant Address.
8.30—Records.
9.0—See Cologne.
9.30—Records.
10.15—Stories and Records.
10.45—Listeners' Youthful Pranks.
11.0—Band.
12.0 noon—See Berlin; at 1.0 p.m.
—Time; Weather; Greetings; and at 1.5—Talk.
2.0—See Stuttgart.
2.30—Heiligenwald Choir.
3.0—Song Records.
3.15—Reading.
3.30 (from Mannheim)—Pfte. Trio in F sharp (César Franck), by

Sicilienne and Minuet (Cercetto).
Two Pieces (Peterson-Berger).
Romanne (Agren). Norwegian
Folk Dance (Svendsen).
3.30—Talk: Modern Bulgaria.
4.0—Records.
5.0—Weather; For Children.
5.35—Report from Paris: The
European Light Athletics Championships.
6.0—Evensong.
7.15—News: Weather

European Light Athletics Championships.
6.0—Evensong.
7.15—News; Weather.
7.30—"Country Life"—Comedy after Fritz Reuter (Kumle).
9.0—Radio Orchestra. Conductor: Grevillius. Overture, "Gwendoline" (Chabrier). Scènes alsaciennes (Massenet). Berceuse de Jocelyn (Godard). March, "The Loves of the Three Coranges" (Prokofiev). Delirienwalzer (Strauss). Paraphrase on La Paloma (Yradier-Weninger).
10.0—News; Weather; Sports.
10.30-11.0—Bjöřling Vocal Quartet.
The Cuckoo (Eccard). Grab und Mond (Schubert). Nattväkteren (Wikander). Brudefärden (Palmgren). Septemberafton (Olsson). Min dejligste tanke (Grieg). Och fast du svikit (Söderman). Hjärtats saga (Aström). Skarnbassen og Rosen (Veit).

STRASBOURG

859 kc/s (349.2 m.); 100 kW. 6.30-6.37 a.m.—News. 7.15-7.53—News (German); Gym. 8.30-8.37—News. 9.0—News; For Farmers; Records. 10.45—Protestant Service in German.

man.
11.30—Roman Catholic Service.
11.30—Roman Catholic Service.
12.0 noon—See Paris (PTT).
12.45 p.m.—News; Notes.
1.15—Station Orchestra.
1.45—Talk: Chess.
2.0—For Farmers.
2.30—Records.

2.0—Por Farmers.
2.30—Records.
3.0-3.45—See Paris (Radio-Paris).
3.45—Medical Talk (German).
4.0 — Orchestra. Conductor: de Villers.

Villers.

Villers.

Villers.

S.30 (approx.)—To be announced.

6.30—See Paris (PTT).

7.0—News; Records.

7.45—News (German, French).

8.30—"D'r Polnisch Judd" (Le juif polonais)—Play in Three Acts (Erckmann-Chatrian) in Alsatian Dialect.

10.30—News (French, German).

11.0—Dance Music from Paris.

STUTTGART

STUTTGART

574 kc/s (522.6 m.); 100 kW.
6.0 a.m.—Records.
7.0—Concert. In the interval—A
Trip to Bad Rippoldsau.
8.0—Water Level; Weather; For
Peasants; Gym.
8.30—Protestant Service.
9.0—See Deutschlandsender,
10.0—Address.
10.30—Records.

10.0—Address.
10.30—Records.
11.30—Orchestra.
12.30 p.m.—Wind Band.
1.0—Topical.
1.15—Orchestra.
2.0—" Punch on the Jürgenhof"—

Play.
2.30—Records.
3.30—Song Records.
4.0—Concert.
6.0—Folk - Songs, Dances and

3.30—Song Records,
4.0—Concert,
6.0—Folk - Songs, Dances and Scenes,
7.0—Records of the Munich Operetta Orchestra, Peter Kreuder (Pfre.), Trude Hesterberg, Emil Frickartz and Odo Rüpp (Songs).
7.30—Sports.
8.0—News.
8.10—Station Orchestra, Conductor: Steffen, Festival March (Strauss).
Ballet Music, "Anacreon" (Cherubini), Serenade (Marteau).
Carnival in Paris (Svendsen).
9.0—Beautiful Music.
10.0—Time; News; Sports.
10.15—Report: The Congress in Stuttgart for Germans outside the Reich.
10.30—Light and Dance Music by the Station Orchestra, Conductor: Willi Butz-Bara, Alfred Kraus (Tenor).
12.0 nt't.—Serenade (Recorded).
Part I: Cologne Station Wind Band and Male Voice Choir and the Hitler Youth Radio Ensemble, Music (arr. Schulz-Gomburg), Trauermusik (Grieg). Feierliche Musik (R. Strauss). Festival Overture (Höffer). Sonnwendkantate (Marx). Heitere Bläsermusik (Stürmer). Part II: George Meader (Tenor), Attilio Ranzato ('Cello), and Hubert Giesen (Pfre.). Three Songs (Quilter). 'Cello and Pfte.: Pastorale (Cyril Scott). Songs: (a) Drink to me only, (b) My Old Kentucky & Home, (c) Old Folks at Home, Part III: Wind Band, Arbeitsmann (Mal), Mein stolzes Bauernvolk (Wolters). Wohlan, die Fahne weht (v.

SUNDAY (September

Beckerath), Musik zu einem Vorspiel (Höffer), Waltz (Ludwig), Radetzky March (Joh, Strauss-Jary). 2.0-3.0 a.m. (Monday)—Music from

TOULOUSE (Radio-

Toulouse) 913 kc/s (328.6 m.); 60 kW 11.46 a.m.—Dance Music. 11.50—Roman Catholic Address. 12.5 p.m.—Operetta Songs. 12.20—News.

11.30—Roman Catholic Address.
12.20—News.
12.30—March (Defrance).
12.40—Talk; Musette Refrains.
1.15—Selection, "Titin des Martigues" (Scotto).
1.30—Request Programme.
1.55—News; Press Review.
2.10-2.30—Protestant Address.
6.0—News; Chansonnettes.
6.40—Orchestra. Excerpts,
"Thesée" (Lully). Minuet (Boccherini). Liebestraum (Fahrbach).
Overture, "A Night in Venice" (Strauss). Serenade. Impressions d'Italie (Charpentier).
6.55—News; Sports.
7.0—Tangos; Film Music.
7.45—Operetta Music. Excerpts,
"Countess Maritza" (Kálmán),
"Les Cloches de Corneville" (Planquette), "Véronique" (Messager), "The Tsarevitch" (Léhar), and "Rip Van Winkle" (Planquette).
8.0—News; Musette Refrains.
8.30—Talk; Marches.
8.45—Bal Champêtre.
9.15—"Cloches et Carillons"—Fantasy.
9.30—Cuban Music.

9.15—" Cloches et Carmono Fantasy. 9.30—Cuban Music. 10.0—News. 10.15—Request Programme. 10.45—Orchestra. 11.0—Musical Comedy Music. 11.15-12.0 m't.—Light Music.

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.). 8.30-8.50 a.m.—News. 9.15 a.m.-2.15 p.m.—See Rome Group.

Group.
5.15—Second Concert by Students

15—Second Concert by Students of the Accademia Chigiana, Siena, Orchestra. Conductor: Alfredo Casella; Pina Carmirelli (Violin); Bruno Rigacci (Pfte.). Overture, "Coriolanus" (Beethoven). Violin Concerto in D (Beethoven). Two Lyrics (Calabrese). Pfte. and Orchestra: Symphonic Variations (César Franck); at 6.0—Sports; Weather.



Mademoiselle Rachel Thauvove (of Brussels) gives a harpsichord recital at Warsaw at 5 p.m. On Wednesday at 10.30 p.m. she plays at Prague and on Saturday (9.45) at Budapest.

6.45-7.0—See Rome Group.
7.19 (Rome (No. 2) only) — News in English.
7.25-8.30—See Rome Group.

30 — String Orchestra; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Talk

and Bolzano)—News and 1 in German.
9.0—"L'incrinatura" — Play Three Acts (Lodovici).
10.30 (approx.)—Dance Music.
11.0—News; Weather.
11.15-11.55—Dance Music,

VIENNA

Sp2 kc/s (506.8 m.); 100 kW. Relayed by Graz and Linz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Klagenfurt and Vorarlberg, 1,294 kc/s (231.8

m.); and Salzburg, 1,348 kc/s (222.6 m.).
6.0 a.m.—See Hamburg.
8.0—Motto; Gym.
8.20—Records.
9.0—See Cologne,
9.30—Elemer von John (Bass-

9.30—Elemer von John (Bass-Baritone).
10.0—Roman Catholic Service from Salzburg Cathedral.
11.0—"The Peasant's Sunday"—Folk-Songs and Readings.
12.0 noon—Orchestra. Conductor: Eichinger.
1.0 p.m.—Orchestra. Conductor: Sandauer; Eduard Larysz (Violin).
2.0—Records: Viennese Operetta Music.
3.0—"Hans im Glück"—Fairy Play.
3.30—Quartet in C minor (Beethoven).

3.30—Quartet in C minor (Beethoven).
4.0—See Saarbrücken.
6.0—Josef Wenter reads.
6.20—Soldiers' Songs.
7.0—Luise Walker (Guitar), Jaro Schmied (Violin), with Erich Meller (Pfte.). Violin: Chant d'automne (Tchaikovsky). Andante con moto (Sor). Guitar: Etude (di Ponio). Violin: Zigeunerweisen (Sarasate). Arab Caprice (Tarrega). Guitar: Granada (Albéniz). Hejre Kati (Hubay).
7.40—Sports.
8.0—Nevs.

7.40—Sports.
8.0—Nevts.
8.10—Opera Music, Vienna Symphony Orchestra. Conductor: Karl Auderieth, Rose Merker (Soprano), Heinz Krögler (Tenor). Georg Puntschart (Bass), Overture, "Iphigenia in Aulis" (Gluck). Tenor and Bass Arias, "The Magic Flute" (Mozart). Leonora Overture (Beethoven). Soprano Aria, "Fidelio" (Beethoven). Overture, "Oberon" (Weber). Tenor Aria and Overture, "The Merry Wives of Windsor" (Nicolai). Dance, "Tsar and Carpenter" (Lortzing). Soprano Aria, "Tannhäuser" (Wagner). Bass Aria, "Lohengrin" (Wagner). Soprano and Tenor Duct, "The Barber of Bagdad" (Cornelius). Prelude and Entr'acte, "Der Corregidor" (Hugo Wolf). Gingerbread Waltz, "Hänsel and Gretel" (Humperdinck). Prelude, "The Mastersingers" (Wagner).

Singles (wagner).

10.0—News; Sports.

10.15—See Stuttgart.

10.30—See Berlin.

12.0 m't.-3.0 a.m. (Monday)—See 12.0 m't.-3. 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.); Poznan, 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.

and wimo, 536 kc/s (559.7·m.).
Transmits at intervals from 7.15 a.m.

9.15 a.m.—Service from Cracow.
10.30 (approx.)—Records.
11.45—Cultural Review.
11.57—Time; Fanfare.
12.3 p.m.—Concert from the Radio Exhibition. Station Symphony.
Orchestra. Conductor: Fitelberg.
Suite (Rözycki). Ballet Music,
"Pan Twardowski" (Rözycki).
Mazurka (Popiel). Love Song (Paderewski). Overture 'Nowowiejski). Mazurka, "The Haunted Castle" (Moniuszko).
1.0 (from Lwów)—Literary Programme.
1.15—Concert from the Radio Pavilion, Lwów. Lwów Station Orchestra. Conductor: Seredyński, Zbych Choir, Lina Skalska (Soprano) and Feliński (Tenor).
3.0—For Country People: Markets; Topical Talk; Records; "Zablocie"—Radio Pictures; Reading.
4.30—A Play (Osokor).

4.30—A Play (Osokor),
5.0 — Rachel Thauvoye (Harpsichord).

5.30—Weekly Sound News

6.0—Concert from the Radio Exhibition. Station Orchestra, etc. Conductor: Gorzyński; at 6.55—Educational.

--Educational.

8.0—Programme Notes.

8.5—Records of Paderewski.

8.40—Political Review; News.

9.0 (from Katowice)—"At the Doctor's"— Humorous gramme (arr. Przemyski).

9.40—Sports Notes.

10.0 (from Poznan)—Talk Records: Verdi's "Aïda."

11.0-11.5—News: Weather.

MONDAY Sept. 5

National

Time Signals (normally): Big Ben, 10.15 a.m., 5.0 p.m., 12 midnight. Greenwich, 10.30 a.m., 2.15, 6.0, 9.45, 11.30 p.m.

10.15 a.m. (D)—Service, 10.30 g.m. in 10.15 a.m. (D)—Service, 10.30 (D)—Weather Forecast, 10.45 — "Christmas Island:" Francis Harmer, 11.0—Ballads, 11.30—H. A. Bate (Organ), 12.0—Dance Records, 12.45 p.m. — Roland Powell's Quintet, 13.0—BBC N. Ireland Orchestra: William Broderick (Bass), 2.30—Frank Biffo's Brass Quintet, 3.0—Pot-Pourri of Romantic Tunes, 3.00—Dragoon Guards Band, 4.30—Records, 5.0—Gregori Tcherniak (Balalaika); Geoffrey Sisley (Guitar), 5.15—Viennese Octet, 6.0—The First News, 6.5—Nicholas Tschaikov (Clarinet); Pauline Juler (Clarinet); Gilbert Vintner (Bassoon); Ernest Lush (Pfte.), 7.0—Variety, 7.45—Kings of the Keyboard, 8.0—Stanley Tudor (BBC Theatre Organ), 3.55—From the Promenade Con-National

(Pfte.) 7.0—Variety.
7.45—Kings of the Keyboard.
8.0—Stanley Tudor (BBC Theatre Organ).
8.35—From the Promenade Concert at Queen's Hall, London: Oda Slobodskaya (Soprano); Parry Jones (Tenor); BBC Symphony Orchestra, conducted by by Sir Henry Wood: Wagner.
9.30—John Wills (Pfte.).
9.40—The Third News.
10.5—"The Past Week."
10.20—Sophie Wyss (Soprano); The Sylvan Trio.
11.10—Phil Richardson's Band.
11.30-12.0—Dance Records.

London Regional

London Regional

Time Signals (normally): Big
Ben, 10.15 a.m., 5.0 p.m., 12.0
midnight, Greenwich, 10.30 a.m.,
7.30, 11.30 p.m.
10.45 — Jack Helyer (Cinema
Organ).
11.30—Toni's Pier Orchestra.
12.30 p.m.—Records.
12.30 p.m.—Records.
Sylvia Stevenson, 1.15—Records.
2.0—The Radio Quartet, from
Prague.

2.0—The Radio Quartet, from Prague.
2.25 — John Snowden ('Cello); Marion Keighley Snowden (Pfte.).
3.0—Whitby Municipal Orchestra.
4.0—Some Gardens: anthology.
4.15—Records.
4.30 — Reginald Dixon (Cinema Organ), 5.0—Children's Hour,
6.0—The Harp Trio.
6.25—Eugene Pini's Tango Orchestra.

tra. 0-" Close to Earth:" Henry

tra. "Close to Williamson.
7.30—The Second News.
7.58—Chess: BBC v. Listeners.
8.0—Angus Morrison (Pfte.).
8.30—Opening Night Stage Show from the Gaumont Cinema,
"The Way. Westward."
Music." 8.30—Opening Night Stage on the Gaumont Cinema Holloway.
9.15—"Looking Westward."
9.45—"You Shall Have Music."
10.30—Joe Kirkham'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—James Bolesworth (Bass);
Winifred Browne (Pfte.). Winifred Browne (Pite.).
6..5—Regional.
7.20—"This Week's Programmes."
7.35—Midland Announcements.
7.30—Regional.
9.15—"Pump and Circumstance."
10.0—The Clifford Quintet.
10.30-12.0—Regional.

Northern

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Alan Holmes Swing Sextet.
6.30—Sydney Chasid's Band.
7.20—For Northern Farmers.
7.30—Regional.
8.0—Charles Kelly (Pfte.)—Weber.
8.15—"Longstone Light:" to commemorate the Grace Darling Centenary Celebrations.
9.15—Reginald Stead's Sextet:
Llewellyn John (Tenor).
9.45-12.0—Regional.

Western
10.45 a.m.,-6.0 p.m.—National.
6.0—Maurice Alexander (Violin)
Geoffrey Mendham (Pfte.).
6.25—Regional.
7.20—Western Announcements.

7.30—Regional. 9.45-10.30 — Royal Air For College Band, Cranwell, Lincs.

Welsh

Welsh
10.15 a.m.—Welsh Service.
10.30 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.25—BBC Welsh Orchestra: Ben Williams (Tenor).
7.20—"National Fitness in Wales:"
J. Glynn Jones, O.B.E.
7.30—Regional.
8.0—Garfield Phillips Quintet playing light music by Welsh composers.

posers. 8,30—"Hen Bregethau: "Henry

8.30— Hen Bregeriae Lewis. 8.50— Welsh Songs: Arianwen Price-Evans (Soprano); Hubert Evans (Baritone). 9.15-12.0—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. .20—N, Ireland News.
.30—Regional.
.0—" Farmers' Work and Worry:" Peter Fitzpatrick, 15-Records, 8.30-12.0-Regional.

Scottish

Scottish

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Scottish Dance Music.
6.25—Regional.
7.0—"School and Group Listening:" A. D. Adam.
7.20—Gaelic News.
7.25—Scottish Announcements.
7.30—Regional.
8.0—Scottish Chamber Music Players, 8.30—Regional.
9.15—Visit to the Empire Exhibition (Scotland).
9.30—Marshall M. Gilchrist (Organ). 9.45—Regional.
10.30—Scottish Sports News.
10.35-12.0—Regional.

Hours of Transmission in British Summer Time.

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



Heinrich Steiner, who conducts the Berlin Orchestra in a programme of modern music at 8.10 p.m.

8.10 p.m.

12.0 noon-See Hamburg.
2.0 p.m.—News; Water Level.
2.15—Hans Busch Band.
3.0—Records: Light Music.
3.30—See Munich.
4.30—Records: "The Blue Danube"
—Ballet (after Strauss).
5.0—Station Orchestra; Quartet.
6.30—Pfte.: Variations and Fugue on a Handel Theme (Brahms).
7.0—Busch Band; Quartet.
8.0—News; Announcements.
8.10—New Austrian Music, Station Orchestra, Conductor: Heinrich Steiner. Hauschild (Bass-Baritone). Scherzo (Kattnigg).
Austrian Dances (Bittner). Four Songs (Wolf). Viennese Rhapsody (Andress).
9.10—"A Musical Garland"—Libiszowski Orchestra.
11.0—News; Weather; Sports.

10.20—Report from Paris (Recorded): Finals of the European Light Athletics Championships.
10.45—See Königsberg.
12.0 m't.-3.0 a.m. (Tuesday)—See Cologne.

BEROMÜNSTER

BEROMUNSTER

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

12.0 noon-1.45 p.m.—Records; at
12.29—Time; News; Exchange.
4.30—Records.
5.0—Radio Orchestra.
6.0—For Children.
6.30—Talk: The great Fire of
Heiden a Hundred Years ago.
7.0—Time; Records.
7.15—Talk: Mental Hygiene for
Infants. 7.15—Talk: Mental Plygiene 1...
Infants.
7.45—Weather; News.
8.0—Radio Orchestra.
9.10—Announcements.
9.15–10.30—For Swiss Abroad.
9.15—Weekly Review.
9.30-10.30 (from Zurich)—The Gall Youth Festival—Report.

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:
Talk; Reading.
6.45—News in German.
7.0-8.15—See Prague.
8.15—Play (Angelinovič; trans.
Mierka).
8.55—Yugoslav Songs (Skerjanc) by
Maria Perslová.
9.5—See Prague.
9.20—See Brno.
9.55-10.15—See Prague.
10.15—News (Hungarian).
10.30-11.0—Records.

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.—See Leipzig.
2.0-3.0—News; Records.
3.30—See Munich.
4.30—Station Orchestra; at 5.305.40—Book Review.
6.30—"Ink in their Veins!"—
Humorous Sequence about Critics
(Koschinsky) with Music.
7.0—See Stuttgart.
8.0—News; Markets.
8.10—Blue Monday: A Gay Musical
Evening. Station Choir and Orchestra. Conductor: Alfred Mai.
Edith Baumert-Ossadnik (Soprano), Sandner (Tenor), and
Schäffer (Bass).
10.0—News.
10.20—Report from Paris (Recorded): Finals of the Europeans
Light Athletics Championships.
10.45—Serenade.
12.0 m²t.-3.0 a.m. (Tuesday)—See
Cologne.

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 5.15 p.m. — French Music by Libuse Vejrychová (Pfte.). 5.40—Records. 5.40—Records.
5.55—News.
6.0—German Talks; Records.
6.35—Talk: Health Insurance.
6.45—News in German.
7.0-9.20—See Prague.
9.20—Station Orchestra. Conductor: Bakala.; Stěpánek (Violin).
Festival Overture (Glazunov).
Tzigane (Ravel). Scherzo (Suk).
9.65-11.0—See Prague.

BRUSSELS (No. 1)

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.—Weather; Shipping, 12.33—Ballet Music, 1.0—News; French Operetta Music, 1.30—Records; Art Notes, 2.3 (approx.)—Programme from the Brussels Radio Exhibition,

2.3 (approx.)—Programme from the Brussels Radio Exhibition.
4.55—News.
5.0—To be announced.
5.30—Poems; Mlle Wirth (Songs).
5.50—To be announced.
6.0—Talk: Goodwill and Peace.
6.15—Twentieth Century Belgian Music—Talk by Gaston Brenta, Mlle Eve Govy (Songs). Excerpts, "L'Apollonide" (Servais), and "Les monténégrins" (de Nieuwenhove).
6.45—Records.
7.0—Reviews: (a) Books, (b) Holidays; Interview; Records.
7.30—Journal Parlé; News.
8.0—Radio Orchestra, Conductor: Gason. Overture, "Le Roi l'adit" (Delibes). Mouvement perpetuel (Ries). Divertissement (Ibert). Romance (Hüe). Excerpts, "Cavalleria rusticana" (Mascagni).
8.45—Wallioon Cabaret. Mascagni). 5—Walloon Cabaret.

9.15—Brazilian Music—Radio Or-chestra, Conductor: Gason. 10.0—News. 10.10-11.0—Records: Fifth Sym-phony (Tchaikovsky).

BRUSSELS (No. 2)

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

Programme in Flemish.
6.30-9.5 a.m.—Records; Gym;
News.
12.0 noon—Records.
12.30 p.m.—Weather Report.
12.31—Salon Orchestra.
1.0—News; Shipping.
1.10—Brenders Jazz Band.
1.39-2.0—Records.
4.55—News.
5.0 — Van de Velde (Violin);
Rosa Grangé (Pfte.); Records;
at 5.45—For Soldiers; Records.
7.30—Sports Review.
8.0—For Ex-Servicemen.
8.5—Humorous Songs by the
"Oud-strijders gezellen."
8.30—"De Groote Harmonie"
8.30—"De Groote Harmonie"
Band from Lierre Casino. Conductor: Courtain. De Decker
(Songs). Marche des décorés
(Courtain). Overture, "The
Caliph of Bagdad" (Boieldieu).
Songs. Selection, (Mireille"
(Gounod-Courtain). Songs. Clog
Dance (Lortzing-Courtain). Suite,
"Marly" (arr. Courtain). Suite,
"Marly" (arr. Courtain).
9.30—Brenders Jazz Band.
10.0—News.
10.10—Report: The Dutch Street
Rejoicings for the Fortieth Anniversary of H.M. Queen Wilhelmina's Coronation.
10.30-11.0—Records.

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.—Cultural Review.
6.17—Records: Light Music.
7.15—Talk.
7.30—Radio Orchestra.
8.25—Records: Music of Many 8.25-Records : Lands. 9.5—F ands. —Frauenliebe und-Leben (Schu-ann) by Mlle Sophie Mun-9.5—Frauenitede und-Leben mann) by Mlle Sophie teano. 9.30—News; Sports Notes. 9.45—Restaurant Concert. 10.45—News in French.

BUDAPEST

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. 12.5 p.m. — Suki Cigány Band 12.5 p.m. — Suki Cigány Band; at 12.30—News. 1.30 — Police Band, Conductor:

Police

1.30 — Police Band, Conductor: Szőllössy.
2.35—News.
4.15—For Schools.
4.45—News.
5.0—Nagy (Harmonium).
5.30—Béla Somogyi.
6.0—Recital by Pál Sallak.
6.35—Talk with Records: Louis XIV.
7.15—News in Slovak.
7.20—Dance Records.
8.25—News.

9.59—Orchestra Conductor: Raj-ter. Overture in D (Haydn). Symphony in C—the Linz (Mo-zart). Divertimento (Veress). Suite, "Tsar Saltan" (Rimsky-Korsakov). 11.0—News (English, French). 11.10—Thaler-Vegh 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—See Monich.
4.30—See Königsberg.
5.30 - 12.0 m't.—See Deutschlandsender.

sender.

12.0 m²t.-3.0 a.m. (Tuesday)—
Serenade — Station Orchestra.
Conductor: Eysoldt; The "Six
Musicians with Eighteen Instruments"; Kirsch (Baritone).

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 Leipzig. 1.45—News; Jäger Band; Records.
3.0—Weather; Markets; Songs and Marches by Hitler Youth.
3.45—Pfte. Records; Programmes.

4.0—Orchestra.

4.0—Orchestra.
5.0—Trio in G for Pfte., Flute, and Bassoon (Beethoven)
5.30-12.0 m't.—"The Mastersingers" (Wagner). Conductor: Furtwängler. Cast: Bockelmann, Manowarda, Zimmermann, Hann, Fuchs, Laholm, Tiana Lemnitz,

Ruth Berglund; at 8.15—Opening of the Reich Party Congress (Recorded): (a) Reports and Chimes; (b) Reception of the Führer in the Rathaus, in the presence of Government and Party Officials; (c) Report from the Opera House, Nürnberg.

12.0 m t.-2.0 a.m. (Tuesday)—See Frankfurt; at 12.55-1.6—Time.

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; Records.
3.30—See Munich.
4.30—Schütz Band and Records.
6.0—The World stands still.
6.15—Records: Light Music.
7.0—Reading (Blunck).
7.15—Waltz to Foxtrot—a History of the Dance told by Schütz and his Band.
8.0—Time; News; Topical.
8.15—Rhine-Main Orchestra. Conductor: Cujé. Overture, "Oberon" (Weber). Mozartiana (Tchaikovsky). Norwegian Rhapsody (Svendsen). Excerpts, "Sigurd Jorsalfar" (Grieg).
Ballet, "Undine" (Grieg).
Ballet, "Undine" (Grieg).
Der Tanz in der Dorfschenke (Liszt). Kamarinskaya (Glinka).
Overture, "William Tell"
(Rossini).
10.0—Time: News: Sports.

sody (Svendseil). Exterps, "Sigurd Jorsalfar" (Grieg). Ballet, "Undine" (Lortzing). Der Tanz in der Dorfschenke (Liszt). Kamarinskaya (Glinka). Overture, "William Tell" (Rossini). 10.0—Time; News; Sports. 10.15—Comrade, where are you? 10.25 — Report from Paris (Recorded): Finals of the European Light Athletics Championships. 10.45—Serenade. 12.0 mt.—Serenade—Light Classical Music (Recorded). Intermezzo, "Fenimore and Gerda" (Delius). Adelaide (Beethoven). Ah, perfidol (Beethoven). Credo (Grechaninov). Death and Transfiguration (Richard Strauss). Prelude, "Si j'étais roi" (Adam). Arias, "Der Wildsechütz" (Lortzing), "Tsar and Carpenter" (Lortzing). Scenes, "Cosi fan tutte" (Mozart). Overture, "Ruslan and Ludmila" (Glinka). Song, "Hansel and Gretel" (Humperdinck). Recitative and Aria, "Ariadne auf Navos" (Richard Strauss). Duet, "The Bartered Bride" (Smetana). March and Scherzo, "Love for Three Oranges" (Prokofiev). 2.0-3.0 a.m. (Tuesday) — Screnade from Cologne.

HAMBURG

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
Concert.
2.0 p.m.—News.
2.1.5—Light Music.
3.0—Shipping; Markets.
3.30—See Munich.
4.30—Variety Concert. Station
Orchestra, Mandoline Band,
Jakschtat (Baritone), Pogorelow
(Balalaika). Talks in the intervals.
6.0—Fassbender ('Cello), Beckmann
(Pries).

(Balalaika). Talks in the intervals.
6.0—Fassbender ('Cello), Beckmann
(Pfte.)
6.45—Weather; Shipping.
7.0—Wagner Records: Opera Excerpts, "Lohengrin" and "The
Mastersingers."
8.0—News.
8.10—"The Melodious Garden":
North German Composers—Concert from Schloss Gödens. Music
of Ludwig Pape, Riem, Erlebach,
Lübeck and Andreas Romberg.
Chamber Orchestra of the Bremen
Stadtmusikanten. Conductor:
Krug. Glawitsch (Tenor) and
Kruscheck (Violin).
9.30—"The Strong and the Weak
Sex"—Humorous Sketch (Balzer).
10.0—News.
10.20—Report from Paris (Recorded): Finals of the European

10.0—News.
10.20 — Report from Paris (Recorded): Finals of the European Light Athletics Championships.
10.45—Kiel Orchestra.
12.0 m°t.-3.0 a.m. (Tuesday)—See Cologne.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 5.40 p.m.; 150 kW from 5.40 p.m. 7.40 a.m.—Time; Records. 8.55—The Dutch Royal Anniversary—Distribution of Pictures to Schoolchildren by the Burgomaster of Amsterdam.

master of Amsterdam.

9.10—Records.
9.40—Service.
9.55—Records.
10.10—Boris Lensky (Violin) and Egbert Veen (Pfte.).
10.40—Reading.
11.55—Pierre Palla (Organ) and Hendrik Koning (Bass).
11.55—Weather; Jetty Cantor's Ensemble.

Ensemble.
12.40 p.m.—Records.

1.10—Jetty Cantor's Ensemble.
1.40—The Dutch Royal Anniversary—Address by the Governor-General of the Dutch East Indies, Jhr. Mr. A. W. L. Tjarda van Starkenborgh Stachouwer.
2.10-5.10 — H.M. Queen Wilhelmina's State Visit to Amsterdam.
2.10—Arrival and Reception at the Haarlemmermeerstation of H.M. Queen Wilhelmina, accompanied by Their Royal Highnesses Princess Juliana and Prince Bernhard—The "Toonkunst" Choir sings. Conductor: Mengelberg.
2.25—State Drive through Amsterdam.

sings. Conductor: Mengelberg.
2.25—State Drive through Amsterdam.
4.10—Arrival at the Palace: Military Parade and singing by the "Apollo" and "Valerius" Choirs. Conductor: Roeske.
5.10—Acolian Orchestra.
6.10—Twilight Serenaders.
6.55—Records.
7.10—Talk by Jhr. Jan Feith: Forty Royal Years.
7.40—News.
7.55—Records: Light Music.
8.40—News.
7.55—Records: Light Music.
8.40—National Poems recited by Paul Huf.
9.0—Mozart, Mendelssohn and Beethoven Symphony Concert.
AVRO Orchestra. Conductor: van Raalte. Zoltan Szekely (Violin).
10.10—The Festivities in Amsterdam.

10.10—The Festivites and dam.

10.40—News.
10.50—Pierre Palla (Organ).
11.10—Talk on Tomorrow's Festivities; Chimes; Trumpet Music from the Cathedral, Bois le Duc.,
11.40—National Anthem.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW until 5.40 p.m.; 60 kW from 5.40 p.m.; 60 kW from 5.40 p.m. Also on Jaarsveld, 722 kc/s (415.4 m.); 17 kW. NCRV Programme.
7.40 a.m. — Bible Reading and Meditation.
7.55—Records; at 9.10—Greetings.
10.10—Service; Bible Reading.
11.40—Police Messages; Weather.
11.40—Police Messages; Weather.
11.55—Accordion Quartet; Records.
12.40 p.m.—Records.
12.55—Mme Pim Borkent-Kok (Soprano); Borkent (Tenor).

11.55—Accordion Quartet; Records.
12.40 p.m.—Records.
12.55—Mme Pim Borkent-Kok (Soppano); Borkent (Tenor).
1:40—Records.
2:0—The Dutch Royal Anniversary—State Visit of H.M. Queen Wilhelmina to Amsterdam.
3:20—Records; Bible Reading.
4:25—Records.
4:55—For Children.
6:0—Amsterdam Salon Orchestra, Conductor: Kiekens. Overture, "Neerlandia" (Wesley). Serenade (Gounod). Ein Abend bei Suppé (arr. Thiele). Narcissus (Nevin). Loin du bal (Gillet). Musikalisches Allerlei (Grit).
6:40—Police Messages and Church Notes.
6:55 — Salon Orchestra (contd.). Puppenspiele (Lederer). Comedy Overture (Aletter). Titoretto (Kockert). Waldteufelein (arr. Kling).
7:25—Report.
7:40—News; Records.
8:10—The Dutch Royal Anniversary: Thanksgiving Service from the Westerkerk, Amsterdam.
9:10—To be announced.
9:45—Apollo Quintet. Volksliedchen und Märchen (Komzak). Behüt dich Gott (Nessler). Die Uhr (Löwe). Hungarian Dance (Brahms). Wiener Blut (Strauss). Stephanie Gavotte (Czibulka): Wanderlied (Meisel). Was ich lang erträumte (Lehár). So schön, wie 's einmal war (Ziehter).
10:25—Gym.
10:40—Apollo Quintet (contd.). Schlaf wohl, du süsser Engel, du (Abt). Waldandacht (Abt). Serenade (Heykens). Lied (Lange). Legend (Wieniawski). Intermezzo (Armandola). Serenade (Pinozzi).
11:10—Records.
11:30-11:40—Bible Reading.

KALUNDBORG

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

Transmits at intervals from 7.0 a.m. 12.0 noon-2.0 p.m.—Wivex Or-

12.0 noon-2.0 p.m.—Wivex Orchestra.
2.30—Preil's Ensemble; at 3.15—
For Housewives; Reading.
4.30—For Children; Radio Notes.
5.0—Talk: Verona. Padua, Ravenna.
5.25—Exchange; Markets; Records.
6.15—Discussion.
6.35—English Lessons.
7.0—Time; News.
7.30—The Women's World Congress in Edinburgh.
7.55—"The Hansens"—Sketch (Locher).

8.10—Scandinavian Music Festival from the Oddfellows' Palace—Finland. Radio Symphony Orchestra. Conductor: Haapanen. Erik Cronvall (Violin). Yrjö Selin ('Cello). Part I. Overture (Linnala). Third Symphony (Sibelius). Part II. Concerto for Violin, 'Cello, and Orchestra (Ratio). Kalevala Suite (Klami). In the interval, Weather.

10.0—News.

10.20—Lecture-Recital: Fishermen's Songs.

Songs.

1.0 p.m.-12.30 a.m. (Tuesday)—
Grinzing Evening — Viennese
Heurigen Festival from the
Zigeunerhalle, Cigány Band, Conductor: Tworek. The Radio
Three, Palle, Alsfelt, Christian
Gottschalch, Kiss Gregers, etc.

KÖNIGSBERG (Heilsberg)

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

Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
12.0 noon—See Hamburg.
2.0 p.m.—News; Talk; Music.
2.55-3.0—Exchange.
3.30—See Munich.
4.30—Light Music by the Station Dance Band.
6.0—Talk: Commercial Travellers.
6.20—The Adolf Hitler March—Reports; Talks.
6.50—Announcements; Records.
7.40—Topical Report; News.
8.15—Symphony Concert—Station Orchestra. Conductor: Brückner.
Veidt (Violin). Second Symphony (Beethoven). Violin Concerto (Brahms). Serenade (Fiedler).

ler).

10.0—News; Weather; Sports

10.20 — Report from Paris (Recorded): Finals of the European Light Athletics Championships.

10.45—Börschel Dance Band.

12.0 m²t.-3.0 a.m. (Tuesday) — See Cologne.

TEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).

Transmits at intervals from 5.50 a.m.

12.0 noon—Station Choir and Orchestra.

2.0 p.m.—News; Records.

3.0—For Parents.

3.0—For Parents.

3.0—See Munich.

4.30 (approx.)—Pfte. Records.

5.0—Time; Weather; Markets.

5.10—Orchestra from Vienna.

6.0—Talk: The Battle of Trafalgar.

6.20—Songs (Recorded).

6.45—Science and Progress.

7.0 — Pfte. Trio in A (Brahms) (Hamburg Station Recordings).

7.45—Topical Report; News.

8.10—See Breslau.

10.0—News; Weather; Sports.

10.20 — Report from Paris (Recorded): Finals of the Athletics Championships.

10.45 p.m.—Serenade.

12.0 mt.-3.0 a.m. (Tuesday) — See Cologne.

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.—Records.

7.10—Talk in English; Record.

7.30—Radio Journal.

8.0—"Publications"—Fantasy on Timal Songs (Hémel; Music by Eddy Jura).

8.30—Station Orchestra. Conductor: Soret. Mlle Francyne and Danéry (Songs). Overture, "Ruy Blas" (Mendelssohn). Third Symphony—the Eroica (Beethoven). Songs. Prelude to Act 1, "Fervaal" (d'Indy). Le tombeau de Couperin (Ravel). Musiques intimes (Florent Schmitt). Songs. Suite bergamasque (Debussy). Excerpts, "The Golden Cockerel" (Rimsky-Korsakov). After the Concert, News.

MONTE CENERI

1.167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 12.0 noon. 7.0 p.m.—Records. 7.30—Markets; News. 8.0—To be announced. 9.15-10.30—See Beromünster.

MOSCOW

172 kc/s (1,744 m.); 500 kW. and 300 kc/s (1,000 m.); 100 kW. Transmits at intervals from 4.0 p.m. 6.0 p.m. — Concert or Opera Transmits at microscopic of Opera (Records), 9.30—News; Kremlin Chimes, 10.0 (1,000 m. only)—Concert, 10.0 p.m. - 1.0 a.m. (Tuesday): 1,744 m. only, 10.0—Talks (English, Hungarian), 12.0 m't.—Spanish Programme,

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

(236.8 m.). Transmits at intervals from 6.0 a.m. 12.0 neon—Station Orchestra. 2.0 p.m.—News ; Exchange. 2.15—See Berlin.

2.15—See Berlin.
3.0—Gymnastics.
3.30 (from Nürnberg)—The Reich Party Congress, Reports and Chimes; Reception of the Eithern in the Rathaus in the

3.0—Gymnastics.
3.30 (from Nürnberg)—The Reich Party Congress, Reports and Chimes; Reception of the Führer in the Rathaus in the presence of Government and Party Officials.
4.30—Station Dance Band; at 5.0-5.10—Weather; Markets.
6.0—Monthly Political Review.
6.20—Stross Quartet. String Quartet in A (Haydn). String Quartet in F (Beethoven).
7.0—"Music to rejoice the Heart"—Station Choir and Orchestra. Conductor: Langefeld. Ella Nikolaus (Soprano), Carnuth (Tenor), Stuhlfauth (Violin), Kusche (Pfte.), Schmidmeier (Pfte. and Organ); at 8.0-8.15—News.
9.0—"The Mastersingers"—an historical sequence.
10.0—Time; News; Sports.
10.20—Report from Paris (Recorded): The European Light Athletics Championships.
10.45—Serenade.
12.0 m²t.-3.0 a.m. (Tuesday)—See 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.—Light Music; Topical.
7.20—Orchestral Records.
8.0—See Rome Group.
8.30—"Casa nostra"—Three-Act Play (Silvani).
10.30—Dance Music.
11.0—News.

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.—Records: Slav Dances (Dvoråsk).
5.40—Talk.
6.0—Variety Concert.
6.45—News.
7.15—Norwegian Music by Margot Arnulf (Songs) and Daniel Lövdal (Pfte.).
7.50—Theatre Notes.
8.10—Scandinavian Music Festival (for details, see Kalundborg).
8.50—Topical Talk.
9.40—News; Topical Talk.
10.15-11.0 Stavanger Radio Orchestra.

PARIS (Eiffel Tower)
1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6,30 a.m.
7.30 p.m.—Radio Journal.
8.0—Paule Gilly (Songs) and Mlle
Sorcl-Nitzberg (Pfte.).
8.30—To be announced.
10.30—Records.
11.0-11.15—News; Weather.

PARIS (Poste Parisien)
959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
6.0 p.m.—News; Exchange.
6.30—Poems (André Romane).
6.58—Racing; Sports Notes
7.10—Amusement Guide.
7.12—Sonata in D minor (Mozart) by Wiener and Doucet (Pftes.) (Records).
7.25—Song Records.
7.45—Handel Records.
8.0—Topical; Records.
8.30—Music with Jean Sablon.
8.45— "Portraits"—Programme with Jean Nohain.
9.0—Lucuona Cuban Boys.
9.25—"Faire le mur" (Diamant-Berger) with Fernandel, etc.
9.35—Records.
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.—Paul Marcilly (Organ)
from the Schola Cantorum
4.30—Reading (Gautier).
4.45—Nadia de Cléry (Songs).
5.0—Talk: Men and Books.
5.15—Francisco Alfonso (Guitar).
5.30 — The International Light
Athletics Championships.
6.0—Talk: Free Trade.
6.15—Medical Talk:
6.30—Maria Clid (Songs).
6.45—Records.
7.0—Radio Journal.
8.0 — Records: Pictures from an Exhibition (Mussorgsky-Ravel).
8.30—Songs of Mountain and Plain sung by Suzanne Nivette.

7.20—Summer in Czecnosiovakia
—Folklore.
8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Yugoslavia's National Day
9.20—See Brno/
9.55—Local News.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Yugoslavia's National Day
9.55—Local News.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Yugoslavia's National Day
9.55—Local News.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

8.15—Light Music from Moravská-Ostrava.
9.5—Talk: Proklore.
10.0—Time; News; Sports.
10.15-11.0—Dance Records from Moravská-Ostrava.

MONDAY (September 51

La Trimouzette (Grécourt). La belle de May (Hillier). Songs (Nerini). A l'ombre (Barenton-Margat). Les dix filles dans un pré (Archaimbaud). La rose blanche (Jacquin). Ges grandes montagnes (Blois).

9.0—Maillard-Verger Trio and Germaine Cernay (Songs). Trio in C (Haydn). Two Songs. Pite.: (a) Two Sonatas (Scarlatti), (b) Rondo (Roussel). Folk Songs (Novak). Trio (Dobrunic).

10.0—Russian Songs by the Bayan Singers. Conductor: Ardarov.

10.30—News; Weather; Records.

11.0—"La Krimo de la strato de Lourcine" (Le crime de la rue de Lourcine)—Play (Labiche; Esperanto trans. by Rollet de l'Isle).

PARIS (Radio-Paris)
182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programme Notes.
6.30—Time; News; Records.
8.29—Time; News; Records.
8.29—Time; News; Records.
9.45—Programmes; Records.
10.45—Reading; Records.
11.45—Markets; Exchange.
12.0 noon—Talk: Harem Life in Morocco.

12.0 noon—Talk: Harem Life in Morocco.
12.16 p.in.—Records.
1.0—Time; News; Exchange.
1.30—Le Marc' Hadour! (Songs).
1.45—Records; Programmes.
2.5—"C'est mon mari"—One-Act Play (Soret).
2.30—Exchange; Markets.
2.45—Marie Simon (Songs).
3.0—Records; "Les songes" (Milhaud).
3.15—Talk: Poets and their Muses.
3.30—Talk: Famous Contemporaries.

3.15 — Talk: Poets and their Muses.
3.30—Talk: Famous Contemporaries.
3.45—Exchange; Markets.
4.0—Revue (Clérouc) with the Author, Emile Rousseau, Adrien Lamy, Ketty Emlyn, and Jane Montagne, from the Radio Exhibition.
5.0—Giardino Orchestra. Overture, "Les Dragons de Villars" (Maillart). Passepied, "La Basoche" (Messager). Elegy, "La Reine Fiammette" (Leroux). Selection, "Die Fledermaus" (Strauss). Rococo Minuet (Cravio). Slav Dance in Emiliary. Minue (Cravio). Slav Dance in Emiliary. (Thomas).
6.0 — Maggiar (Pfte.). Preludes (Chopin, Liszt). Saint-François de Paule marchant sur les flots (Liszt).
6.15—Rosine Schor (Songs).
6.30—Racing; Art Review.
6.58—Programmes; Anniverspries.
7.10—Records; Book Review.
7.59—Time; Foreign Affairs.
8.8—Home Affairs.
8.8—Home Affairs.
8.45 (also Bordeaux-Lafayette, Lyons (PTT), and Montpellier (PTT)—Symphony Concert from the Casino. Vichy. Conductor: Bruno Walter. Overture, "Oberon" (Weber). Symphony in D (Mozart). Death and Transfiguration (Richard Strauss).
9.45—News; Press Review; Review by Pierre Scize.
10.5—Concert (contd.). Third Symphony—the Eroica (Beethoven).

hoven). 11.0—Programme Notes.

PRAGUE
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.40 p.m. — Pfte. Sonata (Vrana)
played by the Composer.
6.5—For Farmers.
6.10—For Workers.
6.20—Police Band.
7.0—Time; News; Topical.
7.25—"Summer in Czechoslovakia"
—Folklore.

Folklore.

Light Music from Moravská-

7.0—Irish Radio Orchestra, Conductor: Lieut. D. P. O'Hara, 7.20—A Sailor's Log. 7.35—The Great Song Cycles: No. 1, "Dichterliebe" (Schumann) by Joseph O'Neill. 8.5—A Louis XIV Programme in Irish—Murt O'Dubhghaill. 8.50—Pfte. Concerto in C minor (Beethoven) by Estelle Wine and the Irish Radio Orchestra, Conductor: Lieut. D. P. O'Hara, 9.20 — Nuacht an Lae—A Gaelic News Broadcast. 9.30—Variety. 10.30—In.0 — Ncws; National Anthem.

RADIO-MÉDITERRANÉE

RADIO-MEDITERRANEE

1,276 kc/s (235.1 m.); 27 kW.
Transmits at intervals from 12.15 p.m.
7.0 p.m.—Musette Ensemble
7.15—Talk; Light Music.
7.45—Variety.
8.15—Talk
8.20—News; Exchange.
8.30—Humorous Items,
9.5—Weather Report,
9.10—Request Programme,
10.0—Radio Journal.
10.15—Dance Music.

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.
6.25 a.m.—Nous vieux pommiers (Dior).
6.30—Press Review.
6.40—Light Music.
7.0 — Swing Something in the Morning

6.40—Light Music.
7.0 — Swing Something in the Morning.
7.15—Time; Sparkling Melody.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time; Tunes you might like to hear—Donald Watt.
8.30—News.
8.40—Your Message from the Stars.
8.45—Happy Families.
9.0—Time; The Open Road.
9.15—Play your Way to Happiness with Arthur Young (Pfte.).
9.30—Tunes of To-day.
9.45—Hutch—Romantic Singer.

10.0—Time; Light Music. 10.30—The Musical Mirror. 10.45—A Hill-Billy Round-Up. 11.0—Time; The Songs we know them by

them by.

them by.

11.15—Radio Normandie Concert
Hall.
11.30—Orchestra.
12.0 noon—Concert.
12.20 p.m.—News; Amusements.
12.45—Concerg (contd.).
2.0—Miniature Matinée.
2.39—Sunshine Screnade.
2.45—Cinema Organ.
3.0—Time; Theatreland Memories.
3.30—Request Music.
4.0—Time; Pleasant Quarter-Hour.
4.15—A Hobby and some Harmony
—For Stamp Collectors.
4.30—Advance Film News; Music.
4.45—Band Parade; at 5.0—Time.
5.15—For Boys and Girls.
5.39—Czechoslovak Picture Book.
5.45—Winners—Tunes to make you whistle and Songs to make you smile.
6.0—Markets.

whistle and Songs to make you smile.
6.0—Markets.
6.5—Children's Corner.
6.45—Talk; Light Music.
7.30—News; Sound News.
8.0—Variety.
8.40—Records of Ray Ventura.
9.6—Operetta Music. Selection,
"The Maid of the Black Forest" (Jessel), and "Rose Marie" (Friml). Offenbachiana (Conradi-Daeblitz). Selection, "Au temps des merveilleuses" (Christiné-Richepin).
9.30—Dance Music.

10.30 Light Music. 11.0—Café Concert; at 11.30— Talk: Romania. 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. Transmits at intervals from 6.30 a.m. 6.45 p.m.—News in English. 7.0—Radio Journal. 7.30—To be announced. 8.0—News; Records. 8.10—Shipping Review. 8.30—"Gai, marions-nous"—Play (Germaine Acremant). After the Play, News; Music.

REYKJAVIK

208 kc/s (1,442 m.); 100 kW. Transmits at intervals from 12.0noon. 9.10 p.m. — Weather (Icelandic, 9.10 p.m. — Weather (Icel German, English). 9.20—Marches. 9.40—News; Foreign Affairs. 10.15—Reading.

MONDAY (September 51

10.40—Songs. 11.0—Popular Music by the Radio Orchestra. 11:30—'Cello Recital.

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—Malanotte (Violin).
5.55-6.5—Poems.
7.0-7.20—Talk in French.
7.30—Light Orchestral.
8.0—Time; News; Music.
8.30 (Palermo and Naples No. 2 only)—Light Music.
9.0—Talk: The Italian Language.
9.10—"Don Gill dalle calze verdi" (Carabelia).
11.0—News; Weather.
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.).
Transmits at intervals from 6.0 a.m.
12.0 noon—See Hamburg.
2.0 p.m.—News.
2,15-3.0—See Berlin,
3.30-5.45—See Munich.
5.45—Book Review.
6.0—Music from Berlin.
7.0—Records: Light Music.
7.30—Topical Review; News.
8.10—Johann Strauss Music—Saarbrücken Municipal Theatre Chorus, Station Orchestra, etc.
10.0—Time; News; Topical.
10.20—Report from Paris (Recorded): Finals of the European Athletics Championships.
10.45—'Cello Sonata in E minor (Brahms).

11.15—Serenade. 12.0 m't.-3.0 a.m. (Tuesday)—See Cologne.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.)

5.0—See Beromünster.
6.0-9.15—From Geneva.
6.0—Records.
6.30-7.5—Music Talk.
7.15—Micro-Magazine.
7.50—News; Weather.
8.0 — Light Music. Radio-Geneva Ensemble. Conductor: Pasche. Mme Blanc-Audra (Songs).
8.55—For Optimists.
9.15-10.30—See Beromünster.
10.30-11.0 (from Geneva)—League of Nations Report.

STOCKHOLM

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

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.45 a.m.
5.5 p.m. — Sahlberg (Songs) and
Olle Johnny and Jack Gill
(Accordions).
5.45—Reading (Ludvig Nordström).
6.0—Records.
6.30—Report from Paris: The
European Light Athletics Championships.
7.0—News; Weather; Topical.
7.30—Talk: The Autumn Elections.
8.10 — Navy Band from Skansen.
Conductor: Widner. Polonaise
(Stuart). Swedish Fantasia (Ek).
Crescendo (Lasson). May Carnival in Stockholm (PetersonBerger). Selection, "Der Obersteiger" (Zeller). London Suite
(Coates). March (Widner).
9.10—Talk.

Berger), Selection, "Der Obersteiger" (Zeller), London Suite (Coates). March (Widner).

9.10—Talk.

9.30 — Stenhammar and Sjögren Music by Brundin (Songs) and Ebert (Pfte.). Theme and Variations (Sjögren). Four Stockholm Songs (Stenhammar). Excerpts, Pa vandring (Sjögren).

10.10—News; Weather.

10.15-11.0 (from Göteborg)—Liseberg Orchestra. Conductor: Schwarz. Waltz (Eysler). Overture, Czokonay (Kéler-Béla). Spring Suite (Nevin). Potpourri (Lindemann).

STRASBOURG

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

Overture, "Poet and Peasant" (Suppé). Waltz (Stolz). Selection, "White Horse Inn" (Stolz-Benatzky). Caprice viennois (Kreisler). Ballet, "Ritter Pasman" (Strauss).

5.0—Orchestra from Montpellier (PTT).

5.45—Talk: French Provinces.

6.0—Economic and Social Notes.

6.30-7.0—See Paris (PTT).

7.0—News; Records.

8.0—News (German, French).

8.30—Station Jazz Band.

9.0—One-Act Plays by Le Groupe d'Art Social: (a) "Au Pont Kerlo"—Idyll in Verse (Beaufils), (b) "Commission 10 per cent" (d'Hervilliez), (c) "Trois mariages" (de Mackiels).

10.30—News (French, German).

STUTTGART

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.45 a.m. 1ransmits at intervals from 5.45 a.m.
12.0 noon-2.0 p.m.—See Leipzig.
2.0-3.0—Opera Records.
4.0—Baden Orchestra.
6.0—Records: Light Music.
6.30—Topical Review.
7.0—Mannheim Orchestra.
8.0—News.
8.10 — "Schmiedgesell Adam Urbein"—Play (Pacyna-Elwenspoek).

Urbein '—Play (Pacyna-Elwenspoek).
9.0—Records.
10.30—Vivaldi Chamber Music (Ludwigsburg Castle Concert Recordings). Concerto in D for Viola d'amore, Harpsichord and Strings. Arias, "Der reliconische Musenlust."

10.50—Serenade. 12.0 m't.—See Frankfurt. 2.0-3.0 a.m. (Tuesday)—Serenade from Cologne.

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

Bucharest; 9.40, Oslo; 10.0 German stations, Prague, Stockholm; 10.25, Beromünster; 10.30, Brussels, Radio Eireann, Paris (PTT); 10.45, Radio-Paris; 11.0 Italian stations, Warsaw; 12.5, Budapest.

TOULOUSE (Radio-Toulouse)

Toulouse)
913 kc/s (328.6 m.); 60 kW.
71.5 kg. (328.6 m.); 60 kW.
6.0 p.m.—News.
6.15—Operetta Sonks.
6.40—Musteta Orchestra,
6.55—News; Sports.
7.0—Musical Comedy Music.
7.15—Bal Champêtre.
7.45—Tangos; News.
8.0—Variety; Talk.
8.45—Viennese Music; Talk.
9.15—Argentine Music.
9.30—Orchestra.
10.0—News; Records.
10.30—Request Programme.
11.0—Light Music.
12.0 m't.—News.

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 in

5.13-5.99—Dance Music.
7.19 (Rome (No. 2) only)—News in English.
7.30 8.30—See Rome Group.
8.20—Records; at 8.36—Milan (No. 1), Rome (No. 2) and Bolzano)—News and Italian Lesson in German.
9.0—See Rome Group.
9.10—Modern Songs.
9.30—The International Festival of Contemporary Music at Venice: Symphony Concert. Conductor: Dimitri Mitropulos; Antenore Reali (Baritone), Joseph Brinkman (Pfte.). Concerto grosso in C (Pilati). Bachiana brasileiras (Villa Lobos). Baritone and Orchestra: 87th Psalm (Desderi). Pfte. Concerto (Sowerby). Sonata for Orchestra (Giuseppe Rosati).
11.15 (approx.)—News.
11.30-11.55—Dance Music.

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; Records. 3.30—See Munich. 4.30—Station Orchestra. Conductor: Sandauer. Horak ('Cello). 6.0—See Munich.

6.20—Folk-Songs and Music by the Kothmühln and Wolfing Vocal Quartets, the Enns Choir, a Peasant Band and Hans Brandl (Dialect Stories).
7.0—Ilse Rodzinski (Pfte.). Variations on a Transylvanian Folk-Song (Richter). Adagio and Scherzo, in F minor (Camillo Hotn). Intermezzo and Fughetta (Neugeboren).
7.30—Topical Reports; News.
8.10—Light Music—Station Orchestra. Conductor: Schönherr.
10.0—News.

10.0—News.
10.20—Report from Paris (Recorded): Finals of the European Light Athletics Championships.
10.45—Serenade.
12.0 m't.-3.0 a.m. (Tuesday)—See

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.—Italian Music — Wilno
Station Orchestra. Conductor:
Szczepanski. Dance (Billi).
Goldoniani (Bossi). Suite, Dans
la forêt enchantée (Poldini). In
sogno (Catalani). Serenade and
March (Floridia). Madrigal for
Nanette (Perelli). Amor amor
(Visca).

4.45—Reading.
5.0—Dance Music by the Rynas
Ensemble from the Radio Exhibition. In the interval, Programme Notes.
6.0—Sports Talk.
6.10—Light Music.
7.20—Topical Talk.
7.30 (from Lódz)—" Fairy Tales "
—Orchestra. Conductor: Nagujewski; Vocal Quartet, etc., The
Magic Book (Englemann). Vocal
Quartet: Three Fairy Tales (arr.
Lubowski). In a Fairy Realm
(Ketélbey). Pfte. Pieces. In the
Land of Make-Believe (Tapp). In
the interval, Reading.
8.45—News; Topical Talk.
9.0—For Country Housewives.
9.10—Concert from the Radio Exhibition. Zielinska Guitar Trio,
Demar-Mikuszewski and Kitajewicz (Songs) and Zynski and
Rapacki (Pftes.).
9.50—Sports Notes.
11.0—11.15—News; Weather.

TUESDAY Sept.

National

For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45—"Substitutes for Holidays,"
by a Harley Street physician.
11.0—Chamber Music: Blech String
Quartet, 12.0—Records.
12.15 p.m. — "Clothes and the
Man," 12.45—The Five Microtones. National

Man." 12.45—The Five Microtones.

12.55—Serial Reading from "The Old Wives' Tale" by Arnold Bennett. 1.15—New records.
2.0—BBC Welsh-Orchestra: Margaret Wilkinson (Soprano).

3.0—Records.
3.43—Troise and his Manodliers, with Don Carlos, 4.15—Records.
4.30—"The Day and the Tune:" records.
5.30—The Alcor Trio.
6.0—The First News.
6.30—BBC Orchestra (Section C), conducted by Trevor Harvey.
7.20—Quentin Maclean (Cinema Organ).

4.45 — Selections from "Band Waggon."

Organ).
7.45 — Selections from "Band Waggon."
8.30—An Evening on the Isle of Man. 9.30—Records.
9.40—The Third News.
10.5 — Radio album of recorded American folk song.
10.35—BBC Theatre Orchestra.
11.15—Joe Loss's Band.
11.30-12.0—Dance records.

London Regional

London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45—Rothwell Temperance Band.
11.30 — Tom Jenkins (Cinema Organ). 12.15 p.m.—Records.
12.55—Jack Hill's Music.
1.15—Robert Edwards (Pfte.).
2.0—Courtney Hope in character studies from life. 2.15—Records.
3.0—Torquay Municipal Orchestra. conducted by Haydn Wood and Ernest W. Goss: Mary Hamlin (Soprano). (Soprano).
4.0—"The Three Infernal Jokes:"
short story by Lord Dunsany.
4.20—Tommy Kinsman's Band.

5.0—The Children's Hour.
6.0—Musie from Montevideo:
Mischa Jessel (Pfte.); Oscar
Chiolo and Enrique Sebastiani
(Violin); Florencio Mora (Viola);
Victor Guaglianone ('Ccllo).
6.30—BBC Military Band.
7.20—For Regional Farmers.
7.30—The Second News.
8.0—From the Promenade Concert at Queen's Hall, London:
Jelly D'Aranyl (Violin); BBC
Symphony Orchestra, conducted
by Sir Henry Wood: Schumann — Overture, Manfred;
Violin concerto in D minor.
8.50—"Homeless People."
9.45—Promenade Concert, Part 2
(See 8.0). Maurice Cole (Pfte.);
BBC Symphony Orchestra, conducted by Sir Henry Wood:
Schuenn); Mulitary March, in
D (Schubert).
10.35—Joe Loss's Band.
11.30—Records.
11.50-12.0—Late News Summary.

Midland
10.15 a.m.-5.0 p.m.—Reg
5.0—The Children's Hour

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.30 — The Swadlincote Glee Singers: Henry Bentley ('Cello).
7.5—"Sweet Peas:" J. W. Randall.
7.20—For Midland Farmers.
7.30—Regional.
9.45—Landmarks in English Music—Purcell, 1688: Marjorie Westbury (Soprano); Webster Booth (Tenor); Margaret Ablethorpe (Pfte.); BBC Midland Singers and Orchestra, conducted by Leslie Heward.
10.35-12.0—Regional.

Northern

10.15 a.m.-4.0 p.m.—Regional. 4.0—Evensong from York Minster. 4.45—Regional. 5.0—The Children's Hour. 6.0—Regional. 6.30—Conrad W. Eden (Organ). 7.0—"Us." The Telephone Trio.

7.20—For Northern Farmers.
7.30—Regional.
9.30 — "Scawfell:" A. B. Hargreaves, 9.45-12.0—Regional.

Western

Western

10.45 a.m.-5.0 p.m.—National.
5.0—The Children's Hour.
6.0—Peggy Weber (Cinema Organ).
6.30—Regional.
7.20—Western Announcements.
7.30—Regional.
9.45—Agricultural Bee: Devon v.
Cornwall.
10.20-10.35 — Maurice Hardy
('Cello).

Welsh

Welsh

10.15 a.m.—Welsh Service.
10.30-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.30—Welsh Regional Trio.
7.0—Welsh News.
7.30—Regional.
8.50 — Ivor Walters (Clarinet);
T. D. Jones (Pfte.).
9.15—Programme by new artists.
9.45-12.0—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.
9.30—BEC N. Ireland Orchestra.
10.15—Hymn Recital.
10.35-12.0—Regional.

Scottish

10.15 a.m.-2.15 p.m.—Regional.
2.15—Herring Fishing Bulletin.
2.20-5.0—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.30 — Allan Kennedy (Cinema Organ).
6.45—"One Man in his Time:"
miscellany in Scots verse and song of the seven ages of man.
7.20—Scottish Announcements.
7.30—Regional.
8.50—Gealic Concert: Margaret
B. Macpherson (Soprano);
Allan MacRitchie (Tenor);
Edith Caunce (Clarsach).
9.20—"Out of the Blue:" musical show, 9.45—Regional.
10.35—Scottish News Summary.
10.50-12.0—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.
11.30 a.m.—See Munich.
1.30 p.m.—Records.
2.0—News.
2.15—Libiszowski Band.
3.15—Exchange; Markets,
3.30—Hans Busch Band and Paul.
Reich Accordion Duo.
5.0—See Königsberg.
6.30—"The Monthly Almanac"
(Eich) Music by Knauer.
7.0—German Opera Records.
8.0—See Munich.
10.0—News; Sports.
10.30—See Hamburg.
12.0 m²t.-3.0 a.m. (Wednesday)—
See Vienna.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 12.0 noon—Weather; Records. 12.29 p.m.—Time; News; Ex-12.29 p.m.—Time; News; Exchange; 2.30-1.45—Records.
4.30—Chinese Fairy Tales.
5.0-6.0—See Sottens.
6.0-7.25—From Berne.
6.0—Weather; Ravel Music.
6.30—Talk: Criminal Psychology; Records.
7.0—Time; Labour Exchange.
7.15—André Briquez (Songs).
from Geneva,
7.25—League of Nations Report.
7.40 till Close—From Berne.
7.40—Announcements; News.
7.55—Music Talk.
8.15—Concert from Berne Minster.
9.5—"Stunde des Erkennens"—Play (Schnitzler).
9 40—Folk Songs.
10.0—Radio Orchestra,
10.25-10.30—To-morrow's Programmes.

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:
Talks; Pfte.
6.45—News in German.
7.0-10.15—See Prague.
10.15—News in Hungarian.
10.30-11.0—Records.

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.
11.30 a.m.—See Munich,
1.30 p.m.—Time; News; Records.
2.0—News; Exchange.
2.15-3.0—See Hamburg.
3.30—Songs of the Waterkant,
4.0—See Munich,
5.0—Records.
5.10—Music from Leipzig.
6.0—Talk: Spain's Great Poets.
6.20—Reading.
6.35—Talk: By Car through Further India.
6.55—Tormorrow's Programmes,
7.0—Folk Music, Choir, Mandoline Quartet and Accordion,
8.0—See Munich.
10.0—News.
10.30—See Hamburg.
12.0 m't.-3.0 a.m. (Wednesday)—See Vienna. BRESLAU

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—German Talks. 6.35—Tanoutroff (Guitar). 6.45—News in German. 7.0—See Prague. 7.25—Moravian Folk Songs (Novak) by M. Vojtková (Soprano). 7.40-11.0—See Prague.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW 6.30-9.5 a.m.—Records; Gy 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.—Weather; Shipping.
12.35 (approx.)—Preludes and
Overtures by the Radio Orchestra; at 1.0-1.10—News.
1.30—Records; Art Notes.
4.55—News.
5.0—Violin Sonata (Franck).
5.30—For Children.
6.5—Talk: The Spoiled Child.
6.15—Schubert Records.
6.30—Records for Invalids.
7.0 — Roman Catholic Review;
Film Notes.
7.15—"Anna Pavlova et la Mort du Cygne"—Sequence (Reynaldo Hahn) with Adam and Saint-Saëns Music.
7.30—News.
8.0—Reconstruction of a Première in the reign of Louis XV: "Le

Déserteur" (Monsigny) at the Théâtre des Italiens (1769). I.N.R. Orchestra and Choir. Conductor: Souris, Cast; Mmes De Gavre, Essler, Derval, MM. Alain, Letroye, Toutenel, Rubeau, Jonau, Mauville. 10.0—News; Request 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

1.0—News; Annie Records; Gym; News.
12.30 p.m.—Radio Orchestra.
1.0—News; Shipping.
1.10—Ganne Music.
1.30—2.0—Records.
4.55—News; Grieg Records.
5.45—For Children; Records.
6.45—Topical Talk.
7.0—Fortieth Anniversary of the Coronation of H.M. Queen Wilhelmina—Commentary, on the Dutch Celebrations.
7.30—Review: Social Problems.
8.0—Radio Orchestra. Conductor: Doulicz; at 8.45 (approx.)—Records.

Records. 10.0-11.0—News; Records.

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Transmits at intervals from 5.30 a.m.

1 ransmits at intervals from 5.30 a.m.
6.0 p.m.—Time; Letter-box.
6.17—Handel Records.
7.25 — Mme Eugenie Licezaskaia (Russian Songs).
7.50—Symphony Concert by the Radio Orchestra. Conductor: Rogalski; at 8.30-8.50—Science Talk.
9.30—News; Sports Notes.
9.45—Restaurant Concert.
10.45—News in English.

RUDAPEST

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 6.45 a.m. Transmits at intervals from 6.45 a.m.
12.5 p.m.—Vocal Quartet of the
University Choir.
12.40—News.
1.0—Records.
2.35—News.
4.10—For Housewives.
4.45—News.
5.9—Pál Rátz-Tarlosi Cigány Band,
6.9—Industrial Talk

-Industrial Talk.

—Baron Günther Berg (Ameri-6.20—Baron Gunther Berg (American Songs).
6.45—Talk: Japan and the World.
7.15—Station Band.
8.30—Transylvanian Poems.
9.5—Liszt Records.
9.50—News.

9.5—Liszt Records.
9.50—News.
10.10—Programme for the Fortieth
Anniversary of the Coronation of
H.M. Queen Wilhelmina of
Holland. Address by Gyula
Somogyváry, followed by Dutch
Folk-Songs sung by Lies de
Leeuw.

Folk-Songs sung by Lies de Leeuw.

10. 45—Military Band. Conductor: Figedy. March (Barna). Overrure, 'Sicilian Vespers' (Verdi).

Waltz (Ganne). Fantasia Hungarica (Figedy). Suite (Yoshitomo). The Mill in the Black
Forest (Elienberg). Turkish
Serenade (Kahane). Song (Komzák). Potpourri of Marches
(Blankenburg): at 11.0—News in
German and Italian.

12.5 a.m. (Wédnesday)—News.

COLOGNE

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

Transmits at intervals from 6.0 a.m.

11.30 a.m.—See Munich
11.30 p.m.—Records.
2.0—News; Light Music; Talk.
3.15—Light Music and Riddles.
4.0—"Before the Curtain Rises"—
§Station Orchestra. Conductor:
Breuer. Overtures, "Il Seraglio"
(Mozart), "Prometheus" (Beethoven), "Das Liebesverbot"
(Wagner), "Manon Lescaut"
(Puccini), "Die Abreise"
(d'Albert), "Little Ida's
Flowers" (Klenau), "I Pagliacci"
(Leoncavallo), "Donna Diana"
(Reznicek), "Frühlingsluft"

(Leoncavallo), "Donna Diana" (Reznicek), "Frühlingsluft" (Strauss-Reiterer).

5.0—For Boys.

5.9—Ballet Music—Station Orchestra. Conductor: Breuer. March of the Comedians (Smetana). Dance Suite, "The Bartered Bride" (Smetana). Ballet (egyptien (Luigini). Ballet, "William Tell" (Rossini), and "Faust" (Gounod).

6.30—English Conversation.

6.50—Mozart Opera Records.

8.0—See Munich.

10.0—News; Records.

10.30—See Hamburg.

12.9 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—Dobrindt Orchestra;
at 1.0 p.m.—Greetings.
1.45—News.
2.0—Jäger Band and Records.
3.0—Weather; Markets; Excifange.

3.0—Weather; Markets; Exclange.
3.15—Old German Ballads and Minnelieder. Station Chamber Choir, Pupils of the Berlin Academy of Music, and Hartwig (Baritone).
3.40—Books; Programmes.
4.0—See Munich.
5.0—Military Marches (Recorded).
6.0—Anna Luise Karsch and Frederick the Great—Poems and Dialogue.

Dialogue.
6.30—Ballads sung by Watzke.
6.55—Genealogy.
7.0—Autumn Magic. Mich

7.0—Autumn Magic. Michales Band, etc. 7.45-10.20—See Munich. 10.20 — String Quartet in E flat (Schubert) by Peinlich and Edling (Violins), Wendt (Viola), Bleiss ('Cello). 10.45—Weather. 11.0—Records of Leiseifer (Tenor), the Cologne Pfte. Trio and the Cologne Station Orchestra. Conductor: Eysoldt. 12.0 mt.-2.0 a.m. (Wednesday)—See Stuttgart; at 12.55—Time.

FRANKFURT

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
11.30 a.m.—See Munich.
1.30 p.m.—Records.
2.0—Time; News.
2.10—Hans Georg Schütz Band.
3.0-3.30—Willy Renner Music by
Sophie Hoepfel (Soprano) and
The Composer (Pfte.) Pfte.:
Prelude on "BACH." Songs,
"Des Knaben Wunderhorn."
Pfte.: Impressions.
4.0—Badenweiler Orchestra. In the
interval, The Roving Microphone.
6.0—Topical Report.
6.15—Records.
7.0—Variety. Hans Georg Schütz
Orchestra and the Station Male
Voice Quartet.
8.0—See Munich.
10.0—Time; News.
10.30—See Hamburg.
12.0 m't.—See Stuttgart.
2.0-3.0 a.m. (Wednesday)—Music
from Vienna.

HAMBURG

HAMBURG

904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday,
Transmits at intervals from 5.45 a.m.

11.30 a.m.—See Munich.
1.30 p.m.—Shipping; Records.
2.0—News.
2.15—Light Music.
3.0—Shipping; Markets.
3.25 (from Bremen)—Marianne
Krasmann (Pfte.), Sonata in B
flat (Mozart). Two Intermezzi
(Brahms).
4.0 — Light Music. Station Dance
Band, Violin, Soprano, Accordion. In the interval. Books.
5.15—"You and I"—Cabaret
(Albrecht-Hahn).
6.0—"Diekerjungs"—Dialect Programme (Hecker). Music by
Germer, Micheelsen, Tenne, Girnatis.

Germer, Micheelsen, Tenne, Girnatis.
6.45—Weather; Harbour Notes.
7.0—Station Chamber Orchestra.
Conductor: Müller-Lampertz.
Brandenburg Concerto in G.
(Bach). Symphony in F. sharp minor (Haydn). Overture, "La-finta giardiniera" (Mozart).
7.45—To be announced.
8.0—See Munich.
10.0—News.
10.20—Report: The German Light Athletics Championships.
10.30 — Light Music and Dance Music — Station Choir and Orchestra.

chestra. 12.0 m't.-3.0 a.m. (Wednesday)-See Vienna.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW. until 5.40 p.m.; 150 kW from

until 5.40 p.m.; 150 kW from 5.40 p.m.
The Dutch Royal Anniversary.
AVRO, KRO, NCRV, and VARA Programme.
7.40 a.m.—The National Anthem by the "Toonkunst" Choir and Concertgebouw Orchestra (Recorded); Address by Dr. P. H. Ritter, Jr.; Pierre Palla (Organ) and Boris Lensky (Violin).
8.10—Choir, Conductor: Gerard Vermeulen; Talk by Dr. T. J. Verschuur: Queen and Country.
8.40—"Patrimonium" Band of Amstelveen from the Municipal Theatre, Amsterdam.
8.50—Records.
9.15—"Patrimonium" Band of

Amstelveen, from the Vondel Park, Amsterdam.
9.25—Service.
9.40—Sacred Music. "Excelsior" Royal-Choir and an Orchestra. Conductor: Piet v. d. Hurk. In the interval, Talk by M. Schouten.

Conductor: Piet v. d. Hurk. In the interval, Talk by M. Schouten.

10.25—National Thanksgiving Service from the Nieuwe Kerk, Amsterdam. "Toonkunst" Choir and Concertgebouw Orchestra. Conductor: Willem Mengelberg, Piet van Egmond (Organ), Jo Vincent (Soprano) and Marinus Komst (Trumpet). Organ Music. The National Anthem. Prayer by the Rev. P. J. de Jong. Chorale (Bach). Presentation of a Loyal Address by Parliament, with Speeches by the Presidents of both Chambers, and by the Governor of Friesland. Address by the Prime Minister Dr. Collin. "Jauchzet Gott in allen Landen".—Cantata for Soprano, Trumpet and Strings (Bach). Prayer by the Rev. P. J. de Jong. Hallelujah Chorus, "The Messiah" (Handel). National Anthem. Organ Voluntary.

12.40 p.nt.—Dutch Dances and Music. Conductor: Hugo de Groot.

1.10—Folk Songs by a Children's

12.40 p.m.—Dutch Dances and Music. Conductor: Hugo de Groot.

1.10—Folk Songs by a Children's Choir. Conductor: Hamel.

1.40—Marches and Dances—KRO Orchestra. Conductor: Marinus van 't Woud.

2.10—Festival Music by Arthur Gray (Organ).

2.40—The Nation's Homage to Her Majesty Queen Wilhelmina at the "Dam." Amsterdam.

4.10—Address by the Rev. Spelberg; "Als een goet instrument" (Vorster); Music by Badings.

4.40—For Children.

5.10—"A Woman Reigns"—A Royal Cavalcade (Annie de Hoog-Nooy) spoken by Henri Eerens, with Music.

5.40—Brass Band. Conductor: Piet van den Hurk.

6.10—Concert. Conductor: Holzer. Johan Lammen (Bass).

6.40—"The King-Stadtholder"—Historical Play (Geversman) with Music.

7.40—News.

7.50—"The Voice of South Africa." South Africa." South African National Anthem; Addresses by the Prime Afinister Dr. Colijn, and by the Minister for Foreign Affairs, Dr. Patijn.

8.10—Brass Band. Conductor:

Minister for Foreign Chiance,
Patijn.

10—Brass Band. Conductor:
Piet van den Hurk, followed by
"The Landing of William the
Silent at Scheveningen"—
Historical Scene (Gerretson).
40—Dutch Youth's Homage to
Her Majesty Queen Wilhelmina
at the "Dam." Amsterdam.
40—"Forty Years" (Martinus
Nijhoff) with Music by Treep.
Choir, Orchestra and Paul Huf
(Reciter).

Choir, Orenes. (Reciter). 25—Johan Jong (Organ).

10.40—News.
10.55—Dutch Folk Song Records, followed by Address by the Rev. Fr. Dito. O.P.
11.40—National Anthem.

HILVERSUM (No. 2)
995 kc/s (301.5 m.); 10 kW
until 5.40 p.m.; 60 kW from
5.40 p.m. Also on Jaarsveld, 722
kc/s (415.4 m.); 17 kW.
The Dutch Royal Anniversary. See
Hilversum (No. 1).

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.
2.40—Old English Songs (arr. Lane Wilson) by Inge Michélsen.
Phyllis has such charming graces.
The sweet little Girl that I love.
The Sailor's Life. The forsaken Maid. The pretty Creature.

3.0—Julian Orchestra.
4.30—For Children; Notes.

5.0—A Tale.

5.25—Markets.

5.25 — Weather; Exchange; Markets. 5.50-6.15—Raquel Rastenni (Songs). 6.15—For Gardeners. 6.35—German Lesson. 7.0—Time; News. 7.25—Talk: 7.40—Discussion: Songs for Young People.

7.40—Discussion: Songs for Young People.
8.10—Scandinavian Music Festival from the Oddfellows' Palace— Sweden. Radio Symphony Or-chestra. Conductors: Tor Man and Nils Grevillius. Ingemar Lil-jefors (Pfte.). Part I. Sinfonia espressiva (Nystroem). Part II.

TUESDAY (September 6)

Prologue, "Marionettes" (Hilding Rosenberg). Partita (de Frumerie). Pfte. and Orchestra: Rhapsody (Liljefors). Passacaglia, "The Princess of Cyprus" (Lars-Erik Larsson). In the interval, Weather. 10.0—News. 10.20—Thune Stephensen (Danish Songs). Songs, "Sulamith og Salomon" (Bartholdy). Three Songs (Lange-Müller). 10.40 — Osvald Helmuth Jubilee Performance from the New Theatre: Scenes, "The Manservant" — Comedy (Frische-Lynge; Music by Stentoft). 11.5-12.30 a,m. (Wednesday)—Old Dances by Preil's Dance Band; at 12.0 m't.—Chimes.

Antes of Preirs 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.
11.30 a.m.—See Munich.
1.30 p.m.—Time; News; Records.
2.0—News; Talk; Music.
2.55-3.0—Exchange.
3.30—Fairy-Tales and Songs.
4.0—See Munich.
5.0—Station Orchestra. Conductor: Brückner, Thea Consbruch (Soprano). East Prussian Album (Besch). Spring Overture (Goetz). Arias, "Aida" (Verdi), "The Force of Destiny" (Verdi). Norwegian Dances (Grieg). Songs with Orchestra (Wagner): (a). Der Engel, (b) Schmerzen, (c). Träume. Overture, "Tannbäuser" (Wagner).
6.30—Topical Report'; News.—Peter Arco. Börschel Band, etc.
8.0—See Munich.
10.0—News; Light Music.
10.30—See Hamburg.
12.0 m't. - 3.0 a.m. (Wednesday)—See Vienna.

LEIPZIG

LEIPZIG

TEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).

Transmits at intervals from 5.50 a.m.
11.30 a.m.—See Munich.
1.30 p.m.—Records.
2.0—Time; News; Exchange.
2.15 (approx.)—Records.
3.0—A Visit to the Horticultural School for Women, Bad Godesberg.
3.15—Violin Records.
3.40—Book Review.
4.0—Fricke Band; at 5.0-5.10—Time; Weather; Markets.
6.0—Talk: Romanesque Architecture in, Austria.
6.20—"Vom Haus und seinen Geistern"—Brockmeier Poems set to music by Beilschmidt.
6.50—Topical Review.
7.0—Instrumental Records.
8.0—See Munich.
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.
7.0 p.m.—Records.
7.30—Radio Journal; Weather.
8.0—See Paris (PTT).
8.30—Records.
9.0—National Lottery Draw, from
Reaune.

Beaune. 10.30 (approx.)—News.

MONTE CENERI

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—Selection, "Countess Maritza"
(Kálmán).
8.15—"September, 1838, in Retrospect"—Sequence (Trecroci).
8.35—"White Horse Inn"—Revue
(Schwarz).

(Schwarz). 8.50—Records. 9.15—Report from a Hospital. 9.50-10.15—Records: Folk Dances.

MOSCOW

MOSCOW

172 kc/s (1,744 m.); 500 kW. and
300 kc/s (1,000 m.); 100 kW.

Transmits at intervals from 4.0 p.m.
6.0 p.m.—Music and Literature.
9.30—News; Kremlin Chimes.
10.0 p.m.-1.0 a.m. (Wednesday):
1,744 m. only.
10.0—Talks (Dutch, Swedish).
12.0 m't.—Spanish Programme.

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.

11.30 a.m.—First Solemn Session of the Reich Party Congress in the Kongresshalle—Reading of the Führer's Proclamation.
1.30 p.m.—Time; News; Topical.
1.45—Records.
2.0—News; Exchange.

1.45—Records
2.0—News; Exchange
2.15—See Hamburg
3.0-3.30—For Children
4.0—Reich Party Congress,
5.0—Time; Weather; Markets
5.10—Music from Deutschland-

3.0—Reich Party Congress.
5.0—Time; Weather; Markets.
5.10—Music from Deutschlandsender.
6.0—Reading.
6.20—Concert by Hans Gareis
(Tenor), Caroline Kraus (Violin),
jelena Reichel-Pacie ('Cello),
Siegfried Hopf (Oboe), Gustav
Schoedel (Organ) and Ludwig
Kusche (Pfte.). Toccata in D
minor for Organ (Jung), Frech
und froh (Wolf). Requiebros for
'Cello and Pfte. (Cassadò). Die
abgebühte Linde (Schubert).
Humoresque from the Unterhaltungsmusik for Oboe, Violin,
'Cello and Pfte. (Strom). Scottish
Song (Haydn). Romance in A
minor for Organ (Reger), Reiselied (Schoeck). Variations on an
Original Theme for Oboe and
Pfte. (Weismann). Lasst aus
diesem engen Haus, for Tenor
and Organ (Haas). First Movement from the Pfte. Trio in E
flat (Schubert).
7.0—Station Orchestra. Conductor:
Mihalovic. Overture, "Das Fest
der Infantin" (Gebhardt).
Minuet (Zanella). Excerpts, "Si
'étais roi" (Adam). Romanian
Melodies (Knümann). Waltz,
Moonlight on the Alster (Fetras).
Three Pieces (d'Ambros o): (a)
Ständchen, (b) Neapolitan Serenade, (c) Traum Ballet Music,
"The Queen of Sheba"
(Gounod).
7.45—News.
8.0—Reich Party Congress: National
Culture Session in the Opera
House. Award of Cultural Prizes.
10.0—Time; News.
10.20—To be announced.
10.30—See Hamburg.
12.0 n't.-3.0 a.m. (Wednesday)—
See Vienna.

NAPIES 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.—Light Music; Topical.
7.20—Plucked String Orchestra.
8.0—See Rome Group.
8.30—"At the White Cat"—Song Revue.
9.15—Light Orchestral. The Forest Gnome (Pachernegg). Song (Chopin). Waltz (Lincke). Canta la bella isola (Fiaccone). Drinking Songs (Rhode). Serenade (Widor).
Madrigale a Nanetta (Parelli).
Melody and Dance (Schinelli).
10.30 (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 Programme,
6.30—Talk; News,
7.15—Marches and Waltzes by the
Station Orchestra. Conductor:

7.15—Marches and Waltzes by the Station Orchestra. Conductor: Kramm.
7.45—Report.
8.0—Tchaikovsky Concert by the Station Orchestra. Excerpts, "Swan Lake." Barcarolle, Polonaise, "Eugene Onegin."
8.35—For Farmers.
9.0—Part of the Scandinavian Music Festival from Kalundborg.
9.40—News; Topical Talk.
10.15-11.0—Music Talk.

PARIS (Eiffel Tower)

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.

8.0 p.m. — Mile Arvez - Vernet
(Songs), Jeanne - Marie Darré
(Pfte.), Three Songs (Schubert).
Pfte.: (a) Impromptu in A flat
(Fauré), (b) Romantque (Thiret),
(c) Badinage (Poulenc), (d) Goliwog's Cake Walk (Debussy).
Songs (Bernard).

8.30 (also for Bordeaux-Lafayette
and Montpellier (PTT) —
National Orchestra. Conductor:
Rosenthal. Hélène Pignari and
Passani (Pftes.). Concerto for
Two Pftes. and Orchestra
(Mozart). Excerpts, "Rosamunde"
(Schubert). Poème (Chausson).
Bas reliefs assyriens (Martelli).
Suite algérienne (Saint-Saëns).
Divertimento (Stravinsky).

10.30—Records.

11.0-11.15—News.

T-UESDAY September 6)

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW Transmits at intervals from 6.28 a.m 6.0 p.m.—News; Exchange 6.10—Religious Programme. 6.20—Records (Saint-Saëns, Albe-

6.20—Records (Saint-Saëns, Albeniz).
6.50—Talk; Racing; Sports.
7.10—Amusements; Records.
8.0—Topical.
8.10—"Love in Song" (Paul Reboux), with Germaine Lix and René Héreut.
8.43—Records.
9.0—"Les fous du logis"—Play (Méry-Maquet).
10.0—News; Records.
10.30—Cabaret.
11.0—News.

PARIS (PTT)

PARIS (PTT)

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

Transmits at intervals from 6.30 a.m.

5.0 p.m.—Records; at 5.15—
Gilbert-Moryn (Songs).

6.0—For Farmers; Talk.
6.30—Mmc Clavius-Marius (Pfte.).
Waltzes (Beethoven). Three
Waltzes (Chopin). Waltz in C
sharp (Brahms).

6.45—Leila Ben Sédira (Songs).
(Purcell, Schubert, de la Presle,
Poulenc).

7.0—Radio Journal; News.

8.0—Mlle Tant Mieux and M
Tant Pis.

8.30—Concert from Marseilles

(PTT). 10.30—Radio Journal; News. 10.45—Records.

PARIS (Radio-Paris)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programme Notes,
6.30—Time; News; Records.
6.50—Gym and Records.
8.29-9.7—Time; News; Records.
10.45—Reading; Records.
10.45—Exchange; Markets.
12.0 noon—Jewish Talk.
12.20 p.m.—Bailly Orchestra.
1.0—Time; News; Exchange.
1.30—Bailly Orchestra.
2.0—Programmes; Talks,
2.30—Exchange; Records.
3.45—Exchange; Markets.
4.0—Mme Piette (Songs); Records.
4.30—Reading; Talk.
4.50—Exchange; Markets.
5.0—Derveaux Orchestra. Overture,
"William Tell" (Rossini). Waltz
Suite (Métrs). Chant sans paroles
(Tchaikovsky). Irish Folk Melodies (O'Donnell). Si j'étais jardinier (Chaminade). Ballet, "Le
Cid" (Massenet). Selection, "The
Drum Major's Daughter" (Offenbach).

bach)

Drum Major's Daughter" (Offenbach).
6.0—Classical Records.
6.30—Racing; For Ex-Servicemen.
6.47—Dietetics; Programmes.
7.0—Sonata (Ravel), by Yvonne Astruc (Violin) and Doyen (Pfte.).
7.30—Talk; For Workers.
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.15—André Pascal (Violin), Ida Perin (Pfte.), Chastenet (Songs).
Violin Sonata (Franck). Songs (Rabey, Koechlin, Fauré, Thivars). Pfte.: (a) Sonata in G (Mozart), (b) Des vers luisants dans les cheveux de ma mie (Williamo), (c) Third Impromptu (Fauré), (d) The Flight of the Bumble Bee (Rimsky-Korsakov).
9.15—News; Press Review.
9.30—"La naissance de Tristan"—Play in Verse about Wagner (Delaquys); at 10.45—Time; News; Sports.
11.30—To-morrow's Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.0 p.m.—Orchestra from Kosice.
5.40—Milka Pacovská (Violin).
6.0—Markets; Talk.
6.20—Schrammel Ensemble.
7.0—Time; News; Topical.
7.25—Yugoslav Composers — Conservatoire Male Voice Choir.
7.40—A Yugoslav Play.
9.10—Station Orchestra. Conductor:
Parik; Schwarz (French Horn).
French Horn Concerto (Mozart).
Hunting Symphony (Vranicky).
10.0—Time; News.
10.15—Records.
11.0-11.15—News in English.

RADIO EIREANN

564 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday, 1.30 p.m.—Records, 2.30-3.0—For Schools, 5.30—Talk: Renovating Furs.

5.45—One Theme—Two Composers,
Danse macabre (Saint-Saëns),
Totentanz (Liszt),
[6.10—Discussion in Irish between
Tomas O'hOgain and Bairbre Ni
Chonnaire: Ganntanas Grinn,
6.25—Irish Radio Orchestra, Conductor: Lieut. D. P. O'Hara.

10.20—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara.
10.45—News.
10.0 — Northern Monologues by William the Weaver.
11.5—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara. Margaret Roux (Soprano).
10.5—Tales from a Tailor's Shop—Philip Callan and Frank Casserly.
10.20 — "Tannhäuser" (Wagner), from the Unitarian Church, Stephen's Green, Dublin. Compère: Rev. E. Savell Hicks.
10.20—Nuacht an Lae—A Gaelic News Broadcast.
10.30—Variety.
10.30—News; National Anthem.



Exclusive "World-Radio" Picture M. René Héreut, one of the Poste Parisien singers at 8.10 p.m.

RADIO-MÉDITERRANÉE

1,276 kc/s (235.1 m.); 27 kW. Transmits at intervals from 12.15 p.m. 7.0 p.m.—For Farmers. 7.15—Dance Music. 7.30—Motoring Notes. 7.45—Request Programme. 8.0—Talk. 8.0—Talk. 8.10—News; Exchange. 8.15—"Paris tout entier" (Zimmermann-Groffe). 8.30—Songs. 9.5—Weather Report. 9.10—Classical Concert from the Casino, Monte Carlo, Conductor:
Marc César Scotto; at 10.0-10.15
—Radio Journal.

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.
6.25 a.m.—Nos vieux pommiers (Dior).
6.30—Press Review; Music.
7.0—Radio Reveille; at 7.15—Time; at 7.30—Time; Weather.
7.45—Physical Exercises.
8.0 — Reminiscing with Charlie Kunz. Compère: Maurice Denham.

Kunz. Compere: Madrice 25th ham.

8.15—Time; Light Fare.
8.30—News.
8.40—Your Message from the Stars.
8.45—The Open Road.
9.0—Time; Normandie Playbill—Announcements; Music.
9.15—Oliver Kimball.
9.30—Ann French; Music.
9.45—Waltz Time—Billy Bissett's Orchestra, Robert Ashley, Esther Coleman and the Waltz-Timers.
10.0—Time; One Good Tune

10.0—Time; One Good Tune deserves another.
10.30—Radio Favourites.
10.45—Fascinating Rhythm.
11.0—Time; The Songs we know

them by.
11.15—Something for Everybody.
11.30—Chansonnettes.
12.0 noon—Concert; at 12.20 p.m.

—News.

2.0—Advance Film News; Music.

2.15—Doubling the Notes,

2.30—Music and Mystery.

2.45—Coon Songs.

3.0—Time; Concert Hall.

3.15—Radio Sweethearts.

3.30—Request Music.

4.0—Time; Pleasant Quarter-Hour.

4.15—What's on; Music.

4.30—Tunes and Tea-Cups.

5.0—Time; Gems of Strauss.

5.15—For Boys and Girls.

5.30—Paul Oliver and Olive Palmer.

6.0—Children's Corner.

6.45—Talk; News; Racing.

7.0—Light Music.
7.30—News; Light Music.
8.20—Variety Items.
8.40—Excerpts, "Un de la Musique" (Roger Dumas - C. François), with Georges Milton.
8.55—Five Minutes in Portugal.
9.0—Records: Symphony in G—The Military (Haydn) by the Vienna Philharmonic. Conductor: Bruno Walter.
9.30—Chansonnettes.
10.0—Tomas and his Merry Boys.
10.45—Songs, Dances and French Marches.
11.0—Café Concert.
12.0 m't.—Melody at Midnight.
12.30-1.0 a.m. (Wednesday)—Time; Dance Music.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m. Transmits at intervals from 6.30 a.m.
6.0 p.m.—Economic and Social
Notes.
6.30-7.0—See Paris (PTT).
7.0—Radio Journal; Weather.
7.30—Concert from Limoges (PTT).
8.9—News; Notes; Records.
8.13—Talk.
8.30—Variety.
10.30—News; Concert.

REYKJAVIK

208 kc/s (1,442 m.); 100 kW.
Transmits at intervals from 12.0 noon.
9.10 p.m. — Weather (Icelandic,
German, English).
9.20—Operetta and Film Songs.
9.40—News; Foreign Affairs.
10.15—Reading.
10.40—Fifth Symphony (Beethoven).
Third Symphony hoven). (Brahms).

ROME GROUP Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc.

Rone (No. 1), 18 Ke/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—Dance Music. 7.0-7.20—Talk in English. 7.30—Light Music. 8.0—Time; News; Music. 8.0—Time; News; Music. 8.0—Time; News; Music. 9.0—Concert. Conductor: Ferro. Overture, "La scala di seta" (Rossini). Prelude for. Strings, Harp and Organ (Bach-Zandonai). Serenade in G (Mozart). Pupazzetti (Casella). Excepts, "I quattro rusteghi" (Wolf-Ferrar). Largo (Mulè). Italian Aria for 'Cello and Orchestra (Ferro). In the interval, Film Notes. After the Concert, Dance Music.

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.).

Transmits at intervals from 6.0 a.m.
11.30 a.m.—See Munich.
1.30 p.m.—To be announced.
2.0—News.
2.15—See Hamburg.
3.0-3.30—Fairy Tales.
4.0—See Leipzig; at 5.0—Reading.
5.40—Book Review.
6.0—Folk-Music from Mannheim. A Palatinate Peasants Band, and Lindner (Harmonica).
7.0—Comrade, where are you?
7.45—Topical Mirror.
8.0—See Munich.
10.0—Time; News; Topical.
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.).

Relayed by Geneva, 401 kc/s (748 m.).

12.29 p.m.—Time; News.

12.40-1.45—Records.

5.0—Opera Music—Radio Suisse romande Orchestra. Conductor: Haug. Overture, "Si j'étais Roi" (Adam). Waltz, "Eugene Onegin" (Tchaikovsky). Selection, "Samson and Deliah" (Saint-Saëns). Polovtsian Dances (Borodin). Selection, "Madam Butterfly" (Puccini).

6.0—For Invalids.

6.15—Radio Suisse romande Orchestra. Conductor: Appia. Overture, "La princesse Jaune" (Saint-Saëns). Ballet Suite (Moszkowsky). Fantaisie concertante for Double Bass and Pfte. (Chapuis). Ange d'amour (Waldteufel). Scherzo (Lalo).

6.50—Talk: Bees.

7.0—Bob and Bobette; Records.

7.30—News.

8.0—Mendelssohn Music — Radio Suisse romande Orchestra, Con-ductor : Haug, Overture, "Ruy Blas." Third Symphony in A

Blas." Inited Symptotics and Symptot

STOCKHOLM

TOCKHOLM
704 kc/s (426.1 m.); 55 kW.
Motala, etc. Sec Sunday.
Transmits at intervals from 7.45 a.m.
5.5 p.m.—For Children.
5.30—Reading: "Conseils à un Motala, etc. See Sunday.
Transmits at intervals from 7.45 a.m.
5.5 p.m.—For Children.
5.30—Reading: "Conseils à un jeune français partant pour l'Angleterre" (André Maurois).
6.0—Waldimir Orchestra. Spanish Gipsy Dance (Marquina).
Morgenblätter (Strauss). Barcarolle (de Curtis). Dancing Dainties (Pryor). Spanish Waltz (Metra). Friml Potpourri. Potpourri of Sailor Songs (Waldimir). The Gladiators' Farewell (Blankenburg).
7.0—News; Weather; Topical.
7.30—Summer Cocktail, with Sonia Estelle, Margit Rudcrantz and Henry Freeman.
7.55—Report: Country Life.
8.10—Scandinavian Music Festival (for details, see Kalundborg).
10.0—News; Weather.
10.15-11.0—Records.

STRASBOURG

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
4.0 p.m.—Light Orchestral, Conductor: de Villers.
5.0—Dance Records.
5.45—Talk; For Workers.
6.30-7.0—See Paris (PTT).
7.0—News. 6.30-7.0—See Paris (PTT).
7.0—News.
7.30—Concert from Limoges (PTT).
8.0—News (German, French).
8.30—Station Orchestra. Conductor:
Bour. March, Tout Strasbourg (Schneider). Waltz, Légendes d'Alsace (Witz). Jolie Niçoise (Gross). Illusion bereée (Gross).
Le peintre et son modèle (Arnaud-Wytsraëte).
9.15—Georges Chepfer in Songs of Montmartre and Lorraine.
10.0—"Les deux consultations"—One-Act Operetta (Schwab). 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—Baden Orchestra.
2.0-3.0 p.in.—Records.
4.0—See Leipzig.
6.0—Talks; Topical Review.
7.0—Records: Light Music.
8.0—News.
8.15—Station Orchestras, Choir, and Solo Voices. Overture, "Donna Diana" (Reznicek).
Romance, "Tsar and Carpenter" (Lortzing). Aragonesa and Aria, "Carmen" (Bizet). Czardas, "Coppélia" (Delibes). Aria, "La Gioconda" (Ponchielli). Mock Morris (Grainger). Excepts, "Madame Butterfly" (Puccini). Triumphal March, "Aida" (Verdi). Gänseliesel (Rust). Russische Nacht (Hippmann). Song, "Der Prinz von Trapezunt" (Justmann). Ninna Nanna (de Micheli). Song (Sattler). Humoresque (Bortz). Tango (Innocenzi). Polka (Ritter). Duet, "Der Rastelbinder" (Lehår). Episode (Igelhoff). March (Michalski).
10.0—Time; News.
10.30—Light Classical Music—Station Orchestra, Military Band.
12.0 m't.—Serenade. Part I. Hannefriedl Grether (Soprano) and a Chamber Orchestra, Suite (Reutter). Suite for Harpsichord (Sterkel). Aria (Telemann). Violin Concerto in B flat (Riepel). Quartet (Stamitz). Aria (Sacchini). Allegro (Sterkel). Part II. Mozart—Beethoven. Overture, "Cosi fan tutte" (Mozart). Folk-Song Variations (Beethoven). Minuet in D minor (Mozart). Folk-Song Variations (Beethoven). Minuet in E flat (Medozart). Romance in G (Beethoven). Septet in E flat (Beethov

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW
Transmits at intervals from 8.0 a.m.
6.0 p.m.—News; Sea Shanties.
6.40—Operetta Music.
6.55—News; Sports.
7.0—Dance Songs.
7.15—Musette Orchestra.
7.45—Light Music,
8.0—News; Waltzes,

8.30—Talk; Music. 8.45—Argentine Music; Talk. 9.15—Operetta Songs. 9.30 — Selection, "The Merry Widow" (Leház). Widow" (Lehâr).
10.0—News.
10.15—Request Programme.
10.45—Film Music.
11.0—Light Music; Chansonnettes.
11.55-12.0 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—Maria Giovanna Bocchi

(Pfte.).
7.19 (Rome (No. 2) only)—News in

7.19 (Kome (Ro. 2)
English.
7.30-8.30—See Rome Group.
8.30 — Light Music and Dance
Music; at 8.36 (Milan (No. 1),
Rome (No. 2) and Bolzano)—
News and Talk in German.
9.0 — "Bentornato" — One-Act

9.0 — "Bentornato" — One-Act Play (Falconi).
9.40 (approx.)—Serato (Violin), Lorenzi (Pfte.). Sonata in G (Beethoven). Violin: (a) Melody (Gluck), (b) Largo (Veracini), (c) Madrigal (Simonetti), (d) Rondino (Beethoven - Kreisler). Sonata in C minor (Grieg).
10.30 (approx.)—Dance Music.
11.0—News; Weather.
11.15-11.55—Dance Music.

VIENNA

VIENNA

592 kc/s (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
11.30 a.m.—See Munich.
1.30 p.m.—Station Orchestra; at
2.0-2.10—News.
3.30—Records of Marches.
4.0—See Munich.
5.0—Records.
5.10—Music from Leipzig.
6.0—Bruckbauer (Violin) and Mimil Haselsberger (Pfte.). La Follia (Corelli). Valse caprice (Zsoff). Nocturne and Tarantella (Szymanowski).
6.30—Topical.
7.0—Viennese Music by the Hans Falti Quartet.
7.45-10.0—See Munich.
10.0—News.
10.30—See Hamburg.
12.0 mt.-3.0 a.m. (Wednesday)—Serenade. Part I. Tonkünstler Orchestra. Conductor: Pehm. Overture; Nordische Sennfahrt (Gade). Symphony in E flat (Mozart). Kleine Ballettmusik (Hawranek). Three Orchestral Pieces (Andrass): (a) Frohe Tage, (b) Abschied, (c) Kriegsmarsch. March, "Fidelio" (Beethoven). Suite (Dvořák). Part II. Folk Music by the Hubert Zanoskar Players. Part III. Tonkünstler Orchestra. Conductor: Pehm. March, Salzburg voran (Sompek). Wiener Impressionen (Melichar). Riowalzer (Tanferl). Barcarolle (Tchaikovsky). Waltz (Suppé). Tanzmusik aus Alt Wien (Schönherr). Tanzmusik (Schönherr).

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.—Concert from Lwów.
Station Orchestra, Conductor:
Seredyński, Krupa and Krzemieński (Violin and Banjo), Niemiec (Songs). Polonaise (Marzec). Intermezzo (Macho). Songs. Hungarian Romance (Szirmai). Intermezzo (Marzec). Jazz Music for Violin and Banjo. Songs. Polka and Mazurkas (Marzec).
4.45—Reading.
5.0—Light and Dance Music by the Winowski. Wroblewski Lonsemble from the Radio Exhibition. In the interval—Programmes.
6.0 (from Wino)—For Bee-keepers.
6.10—Paganini and the Pianoforte—Kedra (Pfte.). Variations on a Paganini Theme (Brahms). Etudes in E flat major and G sharp minor (Paganini-Liszt).
6.45 (from Poznań)—Reading.
7.0 (from Cracow)—Quartet in F (Mozart) by Mikuszewski (Violin), Nierychlo (Oboe), Zarzycki (Viola) and Makowicz (Cello).
7.20—Topical Talk.
7.30—Concert from the Radio Exhibition. Orchestra, etc. Conductor: Górzyński. In the intervals—Talk with a Young Pole; Reading.
8.45—News; Topical Talk.
9.0—Farmers' Letter-box.
9.10—Concert from the Radio Exhibition (contd.).
9.50—Sports Notes.
11.0-11.5—News; Weather.

National

National
For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45—"Under London—Sewers:"
F. L. Stevens and Jack O'Brien.
11.0—Chamber Music: The Mada Yetrish Trio.
11.30—Aston Hippodrome Orchestra.
12.30 p.m.—Light Music from Berlin: Wilfred Krüger's Band; The Metropol Singers; Joe Alex (Bandonion).
1.15—Philip Whiteway Ensemble.
1.45—BBC Scottish Orchestra.
2.30—Foden's Motor Works Band.
3.5—The St. Leger.
3.25—John MacArthur Quintet.
4.0—Evensong from St. Paul's Cathedral.
5.0—Records.

Cathedral.
5.0—Records.
5.20—Reg Pursglove's Orchestra.
6.0—The First News.
6.25—Erith British Legion Band.
7.0—Records.
7.30—'On Trek.''
8.0—Promenade Concert from Queen's Hall, London: Isobel Baillie (Soprano); Norman Walker (Baritone); Paul Beard (Violin); Gerald Jackson, Frank Almgill (Flutes); Reginald Paul (Pfte.); BBC Symphony Orchestra, conducted by Sir Henry Wood — Baeh: Brandenburg Concerto No. 3, in G, for strings; Concerto No. 8, in A minor, for violin, flute, pfte., and strings; Aria, "Hence all ye evil doers" (Church Cantata No. 135); Brandenburg Concerto No. 4, in G, for violin, two flutes, and strings; Arias, "Stone beyond all jewels shining" (Church Cantata, No. 152); "My Heart ever Fathiful" (Church Cantata, No. 68); Suite No. 3, in D.
9.35—"I Protest."

Cantata, No. 68); Suite No. 3, in D. 9.35—"I Protest." 9.40—The Third News. 10.5—"On this Side of the Water: "Raymond Gram Swing. 10.20—BBC Military Band. 11.0—Herman Darewski's New Melody Rhythm 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 — Donald Thome (Cinema Organ).
11.30 — Records.
12.30 p.m.—New records.
1.6—Empire Exchange.
1.15—G. D. Cunningham (Organ).
2.0—Iris Loveridge (Pfte.).
2.20—"Homeless People."
3.0—BBC Empire Orchestra, conducted by Clifton Helliwell: Arnold Goldsborough (Organ).
4.0—"Jamaica Episode: "H. A. B. Robb.

ducted by Clifton Helliwell:
Arnold Goldsborough (Organ).
4.0—" Jamaica Episode: "H. A. B.
Robb.
4.15—Royal Tank Corps Band.
5.0—The Children's Hour.
6.0—Jack Wilson's Versatile Five.
6.25—Franz Reizenstein (Pfte.).
7.0—" By Act of Parliament;"
Widows', Orphans', and Old Age
Contributory Pensions (Voluntary
Contributory
Carence Wright, Ioan
Carter, Denis Folwell, Cora
Goffin, Warwick Vaughan, Hugh
Morton, Lester Mudditt, Marjorie
Westbury, Jim Collier, Stuart
Vinden; Midland Revue Chorus
and Orchestra.
9.0—Mantovani's Tipica Orchestra.
9.35—"Brigade-Exchange," by
Ernst Johannsen, with Philip
Wade. Francis de Woiff, Dennis
Arundell, George Howe, Andrew
Churchman, Bernard Clifton,
Henry Caine, Ellis Irving,
Donald Eccles. Clayton Greene,
Kaye Secly, Robert Mawdesley,
Ronald Kerr, Mary Leahy, Chloe
Gibson.

Gibson.

10.25 — Herman Darewski's New Melody Rhythm Band.

11.25—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—Jack Wilson's Versatile Five.
6.25—Alan Stephenson (Organ).
7.5—The Nottingham Wireless
Exhibition.
7.20—Midland Announcements.
7.30-12.0—Regional.

Northern

10.15 a.m.-5.0 p.m.—Regional, 5.0—The Children's Hour, 6.0—Records,

6.30 — Rex Furness (Baritone);
Charles Kelly (Pite.),
7.0—Regional,
7.20—For Northern Farmers,
7.30—Regional,
9.0—Brass Band Concert, The Winning Band in the 86th Championship Contest held at Belle Vue,
Manchester,
9.45—"Flippant Fingers,"
10.0—Music at Twilight,
10.25-12.0—Regional.

Western

Western
10.45 a.m.-6.0 p.m.—National.
6.0—Regional.
7.20—Western Announcements.
7.30—Regional.
9.0 — Winifred Davey (Pfte.):
Sonata No. 6, Allegro from
Sonata No. 7 (Arne); Rondo in
C, Op. 51, No. 1 (Beethoven).
9.15—"How to look at a river:"
John Moore.
9.30 - 10.25 — The Southampton
Singers: D. Cecil Williams
(Organ).

Welsh Welsh
10.15 a.m.—Welsh Service.
10.30-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Byd Merched.
6.20—BBC Welsh Orchestra, conducted by Mansel Thomas.
7.0—Welsh News.
7.30—Regional.
9.0—Megan Lloyd ('Cello); Mansel Thomas (Pfte.).
9.35-12.0—Regional.

9.35-12.0—Regional.

N. Ireland

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.25—Joseph Seal (Cinema Organ).
6.50—" Ulster Weekly."
7.20—N. Ireland News.
7.30-12.0—Regional.

7.30-12.0—Regional.

Scottish

10.15 a.m.-2.0 p.m.—Regional.
2.0—Herring Bulletin.
2.5-5.0—Regional.
5.0—The Children's Hour.
6.0—Regional.
6.25—Rud De Na Thachair.
6.40—BBC Scottish Orchestra, conducted by Ian Whyte.
7.20—Scottish Announcements.
7.30—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.
10.0 a.m.-1.0 p.m.—See Munich.
1.0 p.m.—Records.
1.15—See Stuttgart.
2.0—News; Weather; Water Level.
2.15—Busch Band.
3.15—Exchange; Markets.
3.20—Station Orchestra.
4.30—Max Dauthendey Readings.
4.50—Book Talk.
5.0—Busch Band.
6.0—Songs and Music of the German Provinces—Records and Hitler Youth Ensemble.
7.0—Overtures and Dances—Station Orchestra.
8.0—Programme from Munich.
9.30—The Trout Quintet (Schubert) by Theopold (Pfte.) and the State Opera Quartet.
10.5—News; Sports Reports; Weather.
10.30—See Breslau.

State
10.5 — News;
Weather.
10.30—See Breslau.
12.0 m't. - 3.0 a.m. (Thursday)—
See Munich.

BEROMUNSTER
556 kc/s (539.6 m.); 100 kW.
Relayed by Basle and Berne,
1,375 kc/s (218.2 m.).
12.0 noon—Italian Opera Music;
at 12.29 p.m.—Time; News.
1.20-1.45—Records.
4.30—For Women.
5.0-6.30—From Berne.
5.0—"Summer Evening"—Musical
Sequence.

5.0-6.30

5.0-"Summer B.
Sequence.
5.35—French Music.
6.0—For Children.
6.30—Talk: Austrian Art.
7.0—Talk: The Wildkirchli.
7.45—Weather; News.
8.0—"Der Wildschütz" (Lortzing) from the Municipal Theatre,
Taleich.

Tourist Notes.

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:
Talk; Violin Duets; Sports.
6.45—News in German.
7.0-7.25—See Prague.
7.25—Military Band.

7.55-8.55—See Prague. 8.55—See Brno. 9.55-10.15—See Prague. 10.15—News in Hungarian. 10.30-11.0—Records.

RRESLAU

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.
10.0 a.m.-1.0 p.m.—See Munich.
1.0 p.m.—Time; News.
1.15—See Stuttgart.
2.0—News; Exchange.
2.15-3.0—Records: Light Music.
3.20—A Fairy Play (Grimm).
4.0—Orchestras, Hattwig (Pfte.).
6.0—Talks: Programmes.
7.0-9.0 (from Görlitz)—Schreiberhau Municipal Orchestra. Conductor: Arndt; Krause (Violin).
Concert Polonaise (Weber). Overture, "Lodoiska" (Cherubini).
Romance for Violin and Orchestra (Svendsen). Ländliche Humoreske (Krome). Suite, Regenbogen (Rust). Waltz, Dorfschwalben (Strauss). Canzonetta Italiana (Brauer). Farandole (Bizet). Hexentänze for Violin and Orchestra (Paganini). Excerpts, "Paganini" (Lehár). Trarantella, Aus dem Süden Italiens (Friedemann); at 8.0—Report.
9.0—Light and Dance Music.
10.0—News.

9.0—Light and Dance Music, 10.0—News. 10.30—Light and Dance Music

(contd.).

12.0 m't. - 3.0 a.m. (Thursday)—
See Munich.

BRNO

922 kc/s (325.4 m.); 32 kW.
Transmits at intervals from 6.0 a.m.
6.0 p.m.—German Transmission:
Schubert Songs; Talk.
6.35—For Workers.
6.45—News in German.
7.0-7.25—See Prague.
7.25—A Play (Jeřábek).
7.55-8.55—See Prague.
8.55—Opera Music—Station Choir and Orchestra. Conductor:
Bakala. Zaludová (Soprano),
Olšovsky (Tenor), Bednář (Baritone) and Sima (Bass). Excerpts,
The Devil and Kate (Dvořák).
Smugglers Chorus from "The Kiss" (Smetana). Prison Scene,
"Dalibor" (Smetana). Overture,
"The Kiss" (Smetana).

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW. 6.30-9.5 a.m.—Records; Gym;

6.30-9.5 a.m.—Records; Gym; News.
12.0 noon—Brenders Jazz Band.
12.30 p.m.—Shipping; Records.
1.0—News.
1.10—Brenders Jazz Band.
1.30—Records; Art Notes.
2.3 (approx.)—Programme from the Brussels Radio Exhibition.
4.55—News.
5.0—Van Hecke Quartet. Quartet Movements (Schönberg). Pieces for Quartet (Alban Berg). Quartet Movements (Haba).
6.0—Records: Zimmermann Music to La Fontaine Fables.
6.30—Protestant Address.
6.45—Jeanne Deroubaix (Songs).
7.0—Reviews: (a) Local Government. (b) Aviation; Interview.
7.15—Records: Light Music.
7.30—Journal Parlé; News.
8.0—The Impressionists — I.N.R. Symphony Orchestra, Conductor: Franz André; De Clerck (Pfte.). Escales (Ibert). Eglogue (Rabaud). L'Ecran des Demoiselles (Roland-Manuel). Pfte. Pieces (de Sévérac). La Tragédie de Salomé (Florent Schmitt).
9.15—"Le Violonneux" (Offenbach). Conductor: Souris.
9.50—Records.

bach). Cond 9.50—Records.

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;

News.
12.0 noon—Records.
12.30 p.m.—Salon Orchestra; at
1.0—News.
1.30-2.0—Records.
4.40—News.
4.45 — Belgian League of Nations
Union Talk.
5.0—Minne Bolotine (Songs).
5.30—Pfte. Records.
5.45—For Children.
6.30—Classical Records.
6.45—Interview with the Director
of Ghent Theatre on the 1938-9
season.

season.
7.0—Salon Orchestra.
7.30—For Ex-Servicemen.
8.0—Military Soirée for the Antwerp Garrison—Military Band,
The Four Rhythm Aces, Jenny

Sept. 7 WEDNESDAY

and Johnny (Accordion Duo), Remes (Humorist). 8.45—Anton Thiry. 9.0—Military Soirée (cont'd.).

10.0—News. 10.10-11.0 7.0—News. 1.10-11.0 — Records. Overture, "Benvenuto Cellini" (Berlioz). Aubade (Poulenc). Ballet, "Songes" (Milhaud).



Mademoiselle Minne Bolotine. who gives a song recital for Brussels No. 2 listeners at 5 p.m.

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.n.—Time; Books; Records. 7.5—Radio Orchestra. Conductor: Bobesco. 8.5—Talk.

Bobesco.
8.5—Talk.
8.20—Georges Manoliu (Violin) and Filionesco (Pfte.).
8.50—Cabaret Records.
9.30—News; Sports Notes.
9.45—Restaurant Concert.
10.45—News (German, French).

RUDAPEST

BUDAPEST
546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.5 p.m.—Feher (Violin).
12.45—News.
1.0—Band. Conductor: Müller.
2.35—News.
4.15—For Schools.
4.45—News; Records.
5.30—Talk: Japanese Dancing.
6.0—György Sándor (Double Keyboard Pfte.).
6.30—Talk: Broadcasting in Peace and War.
7.0—"The Three Erkels"—Radio Fantasia, with Excerpts from the Works of Ferenc, Gyula, and Elek Erkel (arr. Zakál). Opera House Orchestra. Conductor: Roubal; the Budapest Concert Orchestra, the Elemér Sárai Cigány Band, Patkos (Taragata), Anna Gyenge, Koréh and Maleczky (Songs) (Recorded).
8.50—News.
9.10—Station Orchestra.

9.10—Station Orchestra.
10.0—Heinemann Jazz Band from the Hotel Britannia.
10.35—Interview (Recorded) with Prof. Watson Kirkconnel, of

10.35—Interview (Recorded)
Prof. Watson Kirkconnel,
Canada.
11.0—News (English, French).
11.10—Kurina Cigány Band.
12.5 a.m. (Thursday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
10.0 a.m. - 1.0 p.m.—See Munich.
10.—News; Greetings.
1.15—"Die drei Musikanten."
2.0—News.
2.10—Light Music.
3.0—For Children.
3.30—Genealogy.
3.50—Records.
4.0—Station Orchestra, Melitta Wittenbecher (Soprano) and Engels (Tenor); at 5.0-5.10—Reading.
6.0—Topical; Light Music.
7.0—Station Orchestra, Conductor; Hagestedt; at 8.0—News.
9.15—"Wir haben einen Tag verbracht"—Secular Cantata (Kauffmann). Clemens Kaiser-Breme (Baritone), Station Chamber Choir and Orchestra. Conductor: The Composer,
10.15—Records.
10.30—See Vienna.
12.0 m't.-3.0 a.m. (Thursday)—See Munich.

DEUTSCHLANDSENDER

191 kc/s (1,571 m.); 60 kW.
Transmits at intervals from 5.0 a.m.
12.0 noon—Hippmann Band.
12.55 p.m.—Time; Greetings.
1.15—Operetta Records.
1.45—News.
2.0—Jäger Band and Records.
3.0—Weather; Markets; Exchange.
3.15—Records; Programmes.
4.0—See Leipzig.
5.0—Hans Chemin-Petit Motets—Station Chamber Choir.
5.30 — Elfriede Harder (Harp), Zeller (Pfte.) and Ignatjeff (Balalaika).

Zeller (Pfte.) and Ignatjeft (Baralaika).

6.0—Talk by Paul Eipper.

6.15—Sonata in F sharp minor (Pfitzner) by Steiner ('Cello) and Johnen (Pfte.).

6.45—Literary Talk.

7.0—Records and Poems (Krug).

8.0—Motto; News.

8.15 - 10.0 — Programme from Munich.

10.0—News.

10.20—Wind Quartet of the Berlin State Opera. Quartet in F (Stamitz). Quartet (Rossini).

11.0 — "North—South" — A Musical Journey (Recorded). Station Choir and Orchestras. Conductors: Weigel and Willy Steiner, Singers: Melitta Harder, Freya Felsmann, Elizabeth Schwarzkopf, Denis O'Neil,

Felsmann, opf, Denis Freya Felsmann, Elizabeth Schwarzkopf, Denis O'Neil Cornelius Bronsgeest and Sachse

Steuernagel, etc.

12.50 a.m. (Thursday)—Records.

1.6-2.0—Music from Frankfurt.

FRANKFURT

1,195 kc/s (251 m.); 25 kW.
Cassel, etc. See Sunday.
Transmits at intervals from 5.0 a.m.
10.0 a.m.—1.0 p.m.—See Munich.
1.0 p.m.—Time; News.
1.15—See Stuttgart.
2.0—Time; News.
3.0—Weekly Review; Talk.
4.0—Station Choir and Orchestra.
Grete Zoll (Soprano), Bartholmes (Baritone), Schröter (Pfte.). In the interval, The Roving Microphone.
6.0—Records: Light Music.
7.0-10.0—See Micro

the interval, The Roving Microphone.
6.0—Records: Light Music.
7.0-10.0—See Munich.
10.0—Time; News.
10.30—See Vienna.
12.0 m't.—Records, Romance for Orchestra (Moritz) Der Alkazar (Rochlitzer). Three German Forest Idylls (Holtzwart), Karneval in Nizza (Heumann), Klingende Wochenschau (Fischer).
Regenbogen-Suite (Rust). Concert Waltz (Döhler). Musikanten-Suite (Rasch). Excerpt from The Fairy-tale Suite (Lobertz). Löns Lieder-Suite (arr. Künneke). Comedy Overture (Strecke).
2.0-3.0 a.m. (Thursday)—Music from Munich.

HAMBURG

HAMBURG
904 kc/s (331.9 m.); 100 kW.
Bremen, etc. See Sunday.
Transmits at intervals from 5.45 a.m.
10.0 a.m.-1.0 p.m.—See Munich.
1.0 p.m.—Weather; Topical Talk.
1.15—See Stuttgart.
2.0—News.
2.15—Music.
3.0—Shipping; Markets.
3.25—Weber Concert from Kiel.
4.0—Orchestra. Conductor: v.
Sosen. Talks in the intervals.
6.0—Talk; Records.
6.45—Weather; Shipping.
7.0-10.0—See Munich.
10.0—News.
10.30—See Vienna.
12.0 m*t.-3.0 a.m. (Thursday)—See Munich.

HILVERSUM (No. 1)
160 kc/s (1,875 m.); 10 kW
until 5.40 p.m.; 150 kW from 160 kc/s (1,875 m.); 10 kW until 5.40 p.m.; 150 kW from 5.40 p.m. yARA Programme.
7.40 a.m.—Records.
9.10—Dietetics.
9.40—VPRO Service.
10.0—Records; Recitations; "The Four Blue Stars."
11.20—For the Unemployed.
11.40—Records.
12.10-1.25 p.m.—Esmeralda Septet; Jong (Organ).
1.40—Dressmaking Lesson; Records.
2.40—For Children.
5.10—Records.
5.40—Steyn (Organ); Records.
6.25—Talk: The Annual Fair at Utrecht.
6.40—Greetings; Choir.
7.10—VPRO Talk.
7.40—SOS Messages; News.
7.55—Fantasia Ensemble.

71 WEDNESDAY September

8.40—Recitations.
8.55—VARA Orchestra. Conductor:
Holzer; Nelly Lunoff (Soprano).
9.40—News; Records.
9.55—VARA Orchestra, Conductor:
Holzer.
10.25—Records.
10.40—Medical Talk.
11.10-11.40—Records.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 5.40 p.m.; 60 kW from
5.40 p.m. Also on Jaarsveld,
722 kc/s (415.4 m.); 17 kW.
NCRV Programme.
7.40 a.m.—Bible Reading; Meditation

7.40 a.m.—Bible Reading; Meditation.
7.55—Records; at 9.10—Greetings.
10.10—Service; Records.
10.55—Mme Georgien Sluiter-Gantzeri (Violin), Heins (Pfte.); Records.
11.40—Police Messages; Records.
12.40 p.m.—v.d. Kerkhoff (Organ).
1.40—Records.
2.10—The Dutch Royal Anniversary: Serenade at the "Dam," Amsterdam, with twelve thousand Singers and six Bands. Conductor: Roeske.
2.55—Records.

tor: Roeske. 2.55—Records. 3.10—The Amsterdam Quartet. Records in the intervals. 4.25—Greetings. 4.40—For Young People.

5.25—Records

6.10—Navigation Lesson, 6.40—Police Messages; Church

Notes. 55—Talk in Frisian Dialect.

6.35—Talk in Frisian Dialect.
7.25—Report.
7.40—News; SOS Messages.
7.55—The Dutch Royal Anniversary: The Nation's Broadcast, with Address by a number of Notabilities, and Music by the NCRV Mixed Choir and Orchestra. Conductor: Piet v.d. Hurk.
9.40—News.

NCRV Mixed Choir and Orchestra. Conductor: Piet v.d. Hurk. 9,40—News. 9,45—Haarlem Motet and Madrigal Choir. Conductor: Sem Dresden. Two Psalms (Sweelinck). God is my Light (Clemens non Papa). Psalm (von Hessen). Saepe docens (von Hessen). Nos qui sumus (di Lasso). Folk Songs. In the intervals, Records. 10,25—Gym; Records. 11,30-11,40—Bible Reading.

KALUNDBORG

RALUNDBURG 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 En-

semble.
30—Radio Orchestra. Conductor:
Tuxen. Dall (Songs).
30—For Boys; Notes.
0—For Farmers.
25—Weather; Exchange; Markets.
50—Records.
15—Henrik Bendz talks about

5.0-

6.15 — Henrik Benuz Galas Food. 6.35 — French Lessons. 7.0 — Time; News. 7.30 — Chamber Music. 8.20 — "The Snakkestrup Bus"—

8.20—" The Snakkestrup Bus "— Sketch.

8.35—Excerpts, "Miss America."

8.55—Impressions of the International School Congress.

9.25 — "George Stephenson"—
Play (Bønnelycke).

10.0—News; Weather.

10.20—Pfte. Trio in A (Malling).

10.55 p.m.-12.30 a.m. (Thursday)
—Dance Music; 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.).

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. 10.0 a.m. 10.0 p.m.—See Mumich. 1.0—Time; News; Weather. 1.15—See Stuttgart. 2.0—News; Anniversaries. 2.15—Light Music. 2.55-3.0—Exchange. 3.30—Talk. 3.40—Children's Choir. 4.0—Station Orchestra. Conductor: Wilcken; at 5.0—Riding Report. 6.0—Topical. 6.20—Hugo Wolf Songs by Eggert (Baritone). 6.45—Announcements. 7.0-8.30—Programme from Munich. 8.30—Station Orchestra. Conductor: Wöllner, Festival Conductor: Wöllner, Festival Conductor: Wöllner, Festival Overture (Fiebach). Selection, "Hänsel and Gretel" (Humperdinck). Scènes poétiques (Godard). Bilder aus Osten (Schumann). March (Lutz). Overture, "Waldmeister" (Strauss). March (Koch), "Aennchen von Tharau" (Strecker). March (Koch).

10.0—News; Weather; Sports.
10.20—"The Mounted SA at Work"—Report.
10.35—Records: Light and Dance

Music. 12.0 m't.-3.0 a.m.—See Munich.

LEIPZIG

Test Park (1982) Test Park (1982) Test Park (1983) Test P

3.40—Talk: Early Mail Steamships.
4.0—Leipzig Symphony Orchestra; Radelow (Violin), Conductor: Kretzschmar; at 5.0-5.10—Markets.
6.0 — Talk: Sudeten German Schools.
6.20—Music; Reading (Mörike), 7.0-10.0—News.
10.30—See Wunich.
10.30—See Vienna.
12.0 m*t.-3.0 a.m. (Thursday)—See Munich.

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.
5.45 p.m.—Brasserie Concert.
6.30—Educational.
7.0—For Gardeners.
7.10—Talk in English; Records.
7.30—News.
8.0—Alice Noguet (Songs).
8.15—Mme Devos (Harp).
8.30 (also Toulouse (PTT) and Limoges (PTT))—Raugel Choir and National Orchestra, Conductor: Rosenthal. Claudine Verneuil, Yvonne Faroche, Marguerite Pifteau, Germaine Cernay, Laurence, Lovano, Cathelat, etc. Part I: "Sous les Scelles" (Blech). Part II: "Pierrot Peintre" — Ballet (Emmanuel). After the Programme, News.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon.
7.30 p.m. — The East in French
Music, Radio Orchestra. Conductor: Nussio.

ductor: Nussio.
7.59—News.
8.0—Slav Music—Radio Orchestra.
Conductor: Nussio.
8.15—Old English Songs by Eva
Cattaneo. Have you seen but a
white lily grow? (XV Century).
Pack clouds away (Handel). XVI
Century Songs: (a) Fain would
I change that note, (b) Faire,
sweet cruel. It was a Lover and
his Lass (Morley). Song (Purcell).
8.30—Literature and Art.
8.45—Contemporary English Songs
by Eva Cattaneo. Queen of
Heaven (Dunhill). The Song of
the Palaquin-Bearers (Martin,
Shaw). I was not sorrowful
(Ireland). In an Arbour Green
(Warlock). Twilight Fancies (Delius). The Buckle (Bliss). Love's
Philosophy (Quilter).
9.0-10.15—To be announced.

MOSCOW

172 kc/s (1,744 m.); 500 kW. and 300 kc/s (1,000 m.); 100 kW.

and 300 ke/s (1,000 m.); 100 kW.

Transmits at intervals from 4.0 p.m.
6.0 p.m.—Concert or Opera (Records); at 6.30—Politics; at 7.0—Literature.
9.30—News; Kremlin Chimes.
10.0 (on 1,000 m. only)—Concert.
10.0 p.m. - 1.0 a.m. (Thursday):
1,744 only.
10.0—Talks (French, German).
12.0 m't.—Spanish Programme.

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s

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.

10.0 a.m.-1.0 p.m.—Reich Party Congress Gala Concert. In the intervals, Reports of the Grand Review of the Labour Service on the Zeppelin-Wiese.

1.0—Time; News.

1.15—Concert on Records.

2.0—News; Exchange.

2.15-3.0—Music from Cologne.

3.0—Schneider Band, etc., at 5.0—Markets.

6.0—Talk: Wachau.

6.20—Symphony in A minor (David) by the Station Orchestra, Conductor: Winter.

7.0-10.0—Reich Party Congress.

10.0—Time; News.

10.20 — Records. Fanfare from (Schmidt).
Clarinet Concerto in A (Mozart).
Pite. Rondo in D (Mozart).
Symphony in B flat (Schubert).
Leonora Overture (Beethoven).
12.0 m²t.-3.0 a.m. (Thursday)—
Concert on 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.—Light Music; Topical.
7.20—Italo Ferrari Puppets.
8.0—Time; News.
8.30—Band. Conductor: Arlandi.
Tuppe tuppe et téléphone (Ascolese). Gallop, Acrobats (Sala). Midnight Chimes (Carlini). Gallop, The Clock (Gomez). Neapolitan Song, A bicicletta (Mezzone). The Electric Railway (Becucci). Fantasia on the dance, "Sport" (Marenco). In the interval, Talk.
9.20—Sketch.
9.40—Waltzes by Magda Longari (Pfre.).

(Pfte.). .30 (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. ransmits at intervals from 10,30 a.m. 5 p.m.—Variety Concert.

Fredriks...

Fredriks...

Transmits at interv...

5.5 p.m.,—Variety Conc...

5.50—Report.

6.20—For Girls.

6.45—News; For Farmers.

7.25—Records; Reading.

8.0—Störseth ('Cello). Sonata (Porpora). Adagio (Haydn). French Suite (Bazelaire). Tarantella (Nepomuceno).

8.30—Talk from the University.

6.55—Station Orchestra. Conductor: Kramm. Concerto grosso in F minor for Harpsichord and String Orchestra (Scarlatti).

Baroque Suite for Chamber Orchestra (Atterberg). Four Episodes (Bloch).

9.40—News; Topical Talk.

10.15—Station Orchestra. Night on the Volga (Medvedev). Selection, "The Three Bears" (Er Coates).

Perpetuum mobility of the Proposition of the Volga (Medvedev).

Selection, "The Three Bears" (Er Coates).

Perpetuum mobility of the Proposition of the Volga (Medvedev).

Selection of the Volga (Medvedev).

Selection, "The Three Bears" (Er Coates).

Perpetuum mobility of the Proposition of the Volga (Medvedev).

Selection of the Volga (Medvedev).

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.
8.0 p.ni.—Sonata (Brahms) by
Fournier ('Cello) and Doyen
(Pfte.)

8.30—Dramatic Programme (arr.
Paul Castan). Part I: "The
Wasps"— Play (AristophanesPerret). Part II: "Caramel"—
One-Act Play (Fauchois).

10.30—Records.

11.0-11.15—News.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 6.28 a.m., 6.0 p.m.—News; Exchange, 6.10—Jewish Programme, 6.20—Classical Records, 6.58—Racing; Sports Notes.

6.10—Jewish Programme,
6.20—Classical Records,
6.58—Racing; Sports Notes,
7.10—Amusement Guide,
7.12—Lecocq Operetta Records,
7.45—Records: Sonata (Beethoven)
by Paderewski (Pfte.),
8.0—Topical,
8.10—Mireille and Jean Nohain,
8.15—"En correctionnelle"
(Maurice Diamant-Berger),
8.45—Poème (Chausson) by Yehudi
Menuhin (Violin) and Orchestra,
Conductor: Enesco (Records),
9.5—Coco Aslan and his Pals,
9.20—"Romania"— Sequence
(Morand).

Conductor: Enesco (Reco 9.5—Coco Aslan and his Pa 9.20 — "Romania" — Se (Morand), 10.0—News; Records. 10.30—Shehérazade 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.n.—Concert for the Blind.
Orchestra, etc. Conductor:
Guillou. In the interval, Scene,
"Deirdre of the Sorrows"
(Synghe); Records.

4.30—Mme Vildy (Songs); Records.

4.50—Science Talk.
5.0—Maggiar (Pfte.) (Chopin,
Liszt); Records.

5.45—Talk; Educational.

6.30—Pascal (Violin), Ida Perrin
(Pfte.)

7.0—Radio Journal; Records.

8.30 (also Alpes-Grenoble and Marseille (PTT)) — Concert from
Vichy Casino. Conductor:
Brun. Benedetti ("Cello). Overture, "Figaro" (Mozart).
Unfinished Symphony (Schubert).
"Cello Concerto (Saint-Saëns).

Andante for Strings (Tchaikov-sky). Les violons de M. de Conty (Wormser). Petite suite

-Records: Light Music. 10.30—Radio Journal. 10.45—U.S.A. Bulletin. 11.0—Records: Light Music.

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programme Notes.
6.30—Time; News; Records.
6.50—Gym and Records.
8.29-9.7—Time; News; Records.
9.45—Programmes; Talks; Records.
10.45—Reading; Records.
11.45—Markets; Water Level.
12.0 noon—Talk; Records.
1.0 p.m.—Time; News.
1.30—Mile Cernay (Songs); Records.

1.0 p.m.—Time; News.
1.30—Mlle' Cernay (Songs); Records.
2.0—Programmes; Music Review by Wanda Landowska; Talk.
2.30—Exchange; Records.
3.0—Mlle Huber (Songs); Talks.
3.45—Exchange; Markets.
4.0—Maryse de Pommerol (Songs).
4.15—Gisèle Kuhn (Pfte.).
4.30—Books; Markets.
5.0—Cantrelle Orchestra.
6.0—Gillet (Songs); Records.
6.30—Racing.
6.32—Lecture-Recital by Pauline Aubert (Harpsichord to Pfte.; Programmes.
7.0—Odette Lebon (Songs).
7.15—Talks and Reading.
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.8—Foreign Affairs.
8.8—Foreign Affairs.
8.9—Variety Programme, presented by Louis Merlin; at 9.30—News; Review by Divoire.
10.30—Roger Quilter Records.
10.45—Time; News.
11.0—Tomorrow's Programmes.

PRAGUE
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 6.0 a.m.
5.40 p.m.—Maudr Bagpipe Quartet, Roubal and Kohout (Songs).
6.5—For Farmers; Talk.
6.20—FOC Orchestra. Conductor: Pekárek. Alla marcia (Smatek).
Selection, "Tiefland" (d'Albert).
Les Vendredis (Sokolov-Lyadov-Glazunov). Waltz, Die Nachtschwärmer (Ziehrer). La Czarine (Ganne). March (Nicholls).
7.0—Time; News; Weather.
7.15—Political Talk.
7.25—See Bratislava.
7.25—See Bratislava.
7.35—Dance Music from Kosice.
8.25—Talk.
8.35—See Brno.
9.35—Local News.
10.9—News; Sports; Records.
10.30—Rachel Thauvoye (Harpsichord). Variations (Sweelinck).
Gigue (Loeillet). Chaconne and Allemande (de Chambonnières).
Six Pieces (Couperin). Fugue in A minor (Bach).
11.0-11.15—News in French.

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—Records for Children.

6.0 — Debate in Irish between Eibhlin Ni Chartaigh and Proinnsias MacCasarlaigh: Na Tigh the Nua agus na Sean Tighthe.

6.15 — Mairin Fenning's Ladies' Vocal Trio.

6.45—News.

7.0—Variety with Ken O'Dea and Norman O'Connell Redmond.

7.15—St. George's Brass Band.

7.45—Captain Jordan's Hand—New Radio Play (E. R. Downes), produced by J. J. Henry.

8.30—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara, T. E. Attwooll (Baritone).

9.20—Nuacht an Lac—A Gaelic News Broadcast.

9.30—Variety.

10.30—News; National Anthem.

RADIO-MÉDITERRANÉE

1,276 kc/s (235.1 m.); 27 kW.
Transmits at intervals from 12.15 p.m.
7.0 p.m.—Dance Music.
7.15—Cycling Notes.
7.30—Request Programme.
8.0—Talk.

8.0—Talk. 8.10—News; Exchange. 8.15—Leo Marjane. 8.30—Excerpts, "César" (Marcel 8.30—Excerpts, Ces Pagnol). 9.5—Weather Report. 9.10—Variety. 10.0—Radio Journal. 10.15—Dance Music.

RADIO-NORMANDIE
1,411 kc/s (212.6 m.); 15 kW.
6.25 a.m.—Nos vieux pommiers
(Dior).
6.30—Press Review; Music.

7.0—Radio Reveille; at 7.15—
Time; and at 7.30 — Time;
Weather.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time; Prosperity Programme—Careers for Girls.
8.30—News.
8.40—Your Message from the Stars.
8.45—Happy Families.
9.0—Time; Hot Scotch.
9.15—These names make music—Cole Porter.
9.30—Military Band.
9.45—Popular Music; at 10.0—Time.

Γime

10.30-Musical Melange.
11.0-Time; Light Music.
11.15 - Radio-Normandie Concert
Hall.

Hall.

11.30 — Exacepts, "Rosamunde" (Schubert) by the Hallé Orchestra, Conductor: Sir Hamilton Harty.

12.0 noon—Concert; at 12.20 p.m.—News.

2.0—Musical Mirror.

2.15—Cinema Organ.

2.30—The Songs we know them by.

2.45—Music you might have heard.

3.0—Time; I've brought my music

—Harry Jacobsen (Songs and Pfte.).

-Harry Jacobsen
Pfte.).

3.15—Gracie Fields in New Songs
and Old Favourites.

3.30—Songs you can never forget
-Fred Hartley and his Orchestra,
with Brian Lawrance and John
Stevens.

Stevens.
3.45—George Formby and Beryl.
4.0—Time; Pleasant Quarter Hour.
4.15—From Stage and Screen.
4.45—Fingering the Frets.
5.0 — Time; Czechoslovak Picture
Book

Book.
5.15—For Boys and Girls.
5.30—Variety.
6.0—Children's Corner.
6.45—Report; News; Racing.
7.30—News; Light Music.
8.30—Variety Items.
8.20—Revue from the Salle Pleyel, with Roméo Carles and Pierre Ferrary.

8.20—Reyue from the Salle Pleyel, with Roméo Carles and Pierre Ferrary.
9.0—Variety Concert.
10.0—Livschakoff Dance Band.
10.45—Chansonnettes.
11.0—Café Concert.
12.0 m²t.—Melody at Midnight.
12.30-1.0 a.m. (Thursday)—Time; Dance Music.

RENNES-BRETAGNE

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—News.
7.30 — Kaul (Violin), 'Nathalie Radisse (Pte.).
8.0—News; Amusements; Records.
8.30—Concert, Conductor: Martin. Overture, "Fingal's Cave" (Mendelssohn). Symphony in A (Mendelssohn). German Dances (Schubert). Erlkönig (Schubert).
Divertissement à la hongroise (Schubert). Divertissement für die Jugend (Schumann). Songs (Duparc). Caligula (Fauré). Automne (Fauré). Divertissement (Rabaud). After the Programme, News, Music.

REYKJAVIK REYKJAVIK
208 kc/s (1,442 m.); 100 kW.
Transmits at intervals from 12.0 noon.
9.10 p.m. — Weather (Icelandic,
German, English).
9.20—Classical Dances.
9.40—News; Foreign Affairs.
10.15—Reading.
10.30—Icelandic Programme.

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 — Third Concert by the Students of the Accademia Chigiana, Siena. Orchestra, Conductor: Alfredo Casella; Nunzio Montanari (Pfte.); Tergesa Brambilla (Harp); Marcella Conforto (Violin); and Haydee Spagnoli (Soprano). Pfte. Concerto in D minor (Bach). Harp and Strings: Variations on an Old Carol (Rousseau). Soprano: (a) Aria, "The Secret Marriage" (Cimarosa), (b) San Giovanni (De Plaisant). Violin Concerto in C minor (Vivaldi-Casella), Soprano: (a) The Nightingale and the Rose (Saint-Saëns), (b) Aria, "Dinorah" (Meyerbeer).
5.50—Aviation Notes; Weather.
5.55-6.5—For Motorists.
6.40-6.50—Government Notes.
7.0-7.20—Talk in German.
7.30—Orchestra.
8.0—Time; News; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—"Anima allegra"— Play (Alvarez Quintero Brothers).

10.30 (approx)—Dance Music, 11.0—News. 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. 10.0 a.m. 1.10 p.m.—See Munich.

1.0—Time; News; Weather.

1.15—See Stuttgart.

2.0—News.

1.15—See Stuttgart.
2.0—News.
2.15—See Berlin.
3.0-3.15—For Gardeners.
3.30—Chamber Music. Three Songs (Wolf). 'Cello and Pfte.: Sonata in G minor (Eccles). Four Songs (Wolf). Adagio (Tessarini).
4.0—See Leipzig; at 5.0—Books.
6.0—Variety Records.
6.30—Readings (Lina Staab).
7.0—Programme from Munich.
8.30—Operetta and Dance Music—Orchestra, Maria Corbe (Soprano) and Robert Kiefer, (Tenor).
10.0—Time; News.
10.30—See Vienna.
12.0 m't.-3.0 a.m. (Thursday)—See Munich.

SOTTENS

SOTTENS
677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s
(748 m.),
12.29 p.m.—Time; News,
12.40-1.45—Records,
5.0-6.0—See Beromünster,
6.0—For Young People; Records,
7.15—Micro-Magazine,
7.50—Weather; News,
8.0 till Close—From Geneva,
8.0—Engel Orchestra,
8.30—Artists of the Casino Theatre,
Geneva,
9.15—Folklore Programme, Mandolinata Orchestra, Conductor;
Panosetti; The "Amis Chanteurs," Conductor : Pileur; Bolliger Musette Orchestra; HarryMarc (Monologues),
10.30-11.0—Hot Jazz Records.

STOCKHOLM STOCKHOLM
704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
T-ansamits at intervals from 7.45 a.m.
5.5 p.m.—Jämtland Tales and Folk
Music.
5.35 — "The Shoemaker of Pratapa"—Play.

6.0—Records.
7.0—News; Weather; Topical.
7.30—Election Address by the Minister of Agriculture, A. Pehrsson-Bramstorp.
8.10—Radio Orchestra. Conductor: Hellman. Gino Balma (Songs). Sinfonietta on Russian Folk Songs (Rimsky-Korsakov). Arias (Puccini): (a) "Tosca," (b) "The Girl of the Golden West," (c) "Madame Butterfly." Old King Cole (Vaughan Williams). Arias, (a) "Rigoletto" (Verdi), (b) "I Pagliacci" (Leoncavallo). Persian March (Strauss).
9.15—Literary Review.
9.45—Records of Hans Bund's Pfte. Duo.
10.0—News; Weather.
10.15-11.0 (from Göteborg)—Fagerlund Dance Band.

STRASBOURG STRASBOURG

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

5.0 p.m. — Concert from AlpesGrenoble (PTT).

5.45—Talk: Surrealism in French
Literature.
6.0—Economic and Social Notes.
6.30—See Paris (PTT).

7.0—News.
7.30—Waltz Records.

7.45—Report: The Alsace Walking
Race.

7.49 Report
Race.
8.9—News (German, French).
8.30—Station Orchestra, Conductor:
de Villers. Excerpts, "Prometheus" (Beethoven).

tneus (Beethoven).

9.0—Schirlé (Organ). Toccata and
Fugue in B minor (Bach). Choral
(Schirlé). Adagio (Reger). Movement from the Symphonie Romane (Widor).

mane (Widor).

9.20—Station Orchestra. Conductor: de Villers; Cholé (Pfte.).
and Suzanne Hillmeyer (Soprano).
Pieces for Orchestra (Purcell).
Two Arias, "Dido and Æneas"
(Purcell). Fantasia for Pfte. and
Orchestra (Schubert-Liszt). Three
Songs (Schirlé). Symphonic Poem,
Orpheus (Liszt).

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—Orchestra, Violin.
1.0 p.m.—Time; News; Weather.

1.15—Orchestra, Baritone. 2.0-3.0—Mannheim Orchestra. 4.0—Wildbad Spa Orchestra. 6.0—Records: South American

Music.
6.30—Political Press Review.
7.0—Records: Boulanger Band.
7.15—" German Aviation" quence.
7.45—Records: Old Dances.

7.45—Records: Old Dances.
8.0—News.
8.10—"Behind the Footlights" —
Variety.
10.0—Time; News; Sports.
10.30—See Vienna.
12.0 m't.—See Frankfurt.
2.0-3.0 a.m. (Thursday) — Music from Munich.

TOULOUSE (Radio-

TOULOUSE (Radio-Toulouse)
913 kc/s. (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.0 p.m.—News; Chansonnettes.
6.40—Opera Arias.
6.55—News; Sports.
7.0—Musical Comedy Music.
7.15—Light Orchestral.
8.0—News; Talk.
8.20—Revue.
8.55—Talk; Variety.
9.30—Dance Songs.
10.0—News; Request Programme.
10.45—Operetta Songs.
11.0—Marches and Soldier Songs.
11.15—Light Music.
11.55-12.0 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—Dance Music.
5.50—Aviation; Weather.
5.5-6.5—For Motorists.
7.19 (Rome (No. 2) only)—News in Egglish.
7.30—Orchestra

7.30-Orchestra.

7.30—Orchestra.

8.0—Time; News.

8.30—Chamber Orchestra; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Italian Lesson in German.

9.0—"The Mastersingers" (Wagner). Conductor: Giuseppe del Campo. Chorus Master: Costantini. Cast: Tancredi Pasero, Luciano Neroni, Aldo Ferracuti,

WEDNESDAY September

Mario Bianchi, Afro Poli, Gregorio Pasetti, Mario Borgato, Mario Giusti, Nino Mazziotti, Luigi Bernardi, Bruno Sbalchiero, Gino Conti, Aurelio Marcato, Gino Del Signore, Sara Scuderi, Edmea Limberti. In the intervals, Talk; News.

VIENNA

VIENNA

592 kc/s, (506.8 m.); 100 kW.
Graz, etc. See Sunday.
Transmits at intervals from 6.0 a.m.
10.0 a.m. -1.0 p.m.—See Munich.
1.0—News.
1.15—See Stuttgart.
2.0—News.
2.10—Italian Opera Records.
3.03—Strauss Operetta Records.
3.45—For Women.
4.0—See Cologne; at 5.0-5.15—Reading "Das Schatzkästlein" (Hebel).
6.0 — The Königsberg Teachers' Choir.

Reading Das Schalzkastein (Hebel).

6.0 — The Königsberg Teachers' Choir.

6.30—Records: Light Music.

7.0-8.30—Programme from Munich.

8.30—Beethoven Concert. Part I: Vienna Symphony Orchestra, Conductor: Knappertsbusch; Luise Helletsgruber (Soprano). Overture, Die Weihe des Hauses. Arias, "Egmont." Symphony No. 3 in E flat—the Eroica. Part II: Records. Adagio from the Pathetic Sonata. Andante from the Pfte. Concerto in G. Turkish March, "The Ruins of Athens." Contredanses.

10.0—News.

March, "The Rums of Athens."
Contredanses.

10.0—News.

10.30—Viennese Music. Station Orchestra, Conductor: Schönherr; Liesl Andergast (Soprano), Petroff (Tenor). March (Ertl). Overture, Wenzel Müller (Girnatis). Du liebes süsses Wienerlied (Schindlauer). Das goldene Kander! (Fiebrich). Waltz, Hoch Wien! (Kratzl). Mei Wagerl und i (Weiner-Dilmann). Im Paradiesgart! (Lilienau). Wienerstadt, Wienerstadt (Feigl). Am Rand vom Kahlenberg (Föderl). Weinbeisser in Nutzdorf (Lilienau). I hab' a Rutsch'n auf Wean (Schima). Overture, Wiener Luft (Recktenwald). Verträumtes

Alt-Wien (Berger). Das is a Wein (Engel-Berger). Im Prater (Pachernegg). Song, "Rosen im Schnee" (Löwe-Jascha). Mei Mutterl und i (Stilp). Waltz, Hofballtänze (Lanner). Du mein Kanari (Kreuzberger). Ja, i glaub, in dem Wein muss was drinn gewesen sein (Strecker). Komischer Zapfenstreich (Fahrbach).

12.0 m't.-3.0 a.m. (Thursday) — See Munich.

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.—Rynas Ensemble.
4.45—For Soldiers.
5.0—Dance Music from the Radio Exhibition.
6.0 (from Poznan)—Talk.
6.10—Dubiska (Violin) and Szamotulska (Pfte.). Two Sonatas (Weber). Andante and Presto (Campagnioli Bonelli). Canto (Pizzetti), Recitative and Scherzo (Kreisler). Berceuse (Zarebski).
Tarantella (Wieniawski).
6.45 (from Wilno)—Recitation.
7.0—Karnicka (Songs). Part I.
French Songs. Aria, "Médée" (Lully). Après un réve (Fauré). Chanson triste (Duparc). Part II. Polish Songs. Sophie (Moniuszko), Ne crois pas (Karlowicz). Zuleyka (Szymanowski).
7.20—Topical Talk.
7.30 (from Cracow) — "Wine, Woman and Song" — Variety Concert; in the interval, "A Woman's Heart" — Sketch (Wakszlak).
8.45—News; Topical Talk.
9.0 (from Lwów)—For Farmers.
9.10—Chopin Music by Drzewiecki from the Radio Exhibition. Polonaise in C sharp minor. Nocturnes in F sharp major and E minor. Three Etudes.
9.50—Sports Notes.
10.0—Haydn and Ravel Records.
10.55—Press Review.
11.0—11.15—News; Topical Talk in French.

National

National
For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45—"At Home Today."
11.5—Records illustrating the history of sonata form.
11.55—Phil Park (Cinema Organ).
12.30 p.m.—Records.
1.30—Norris Stanley Sextet.
2.0—Eunice Gardiner (Pfte.).
2.30—Ernest Leggett and the Continental Players.
3.15—Bournemouth Municipal Orchestra: Gordon Bryan (Pfte.).
4.45—Records.
5.0—Gladys Palmer (Contralto).
5.20—The Westminster Players.
6.25—Florence Hooton ('Cello); Kendall Taylor (Pfte.); Sonata in D. Op. 102, No. 2 (Beethoven); Sonata (Debussy).
7.0—Fred Hartley's Sextet.
7.30—Students' Songs: BBC Men's Chorus: Arthur Cranmer (Baritone).
8.0—"George Edwardes: 'illus-

7.30—Students' Songs: BBC.
Men's Chorus: Arthur Cranmer
(Baritone).
8.0—"George Edwardes:" illustrated biography, with Huntley
Wright, Bertram Wallis, Joe
Coyne, Gracie Leigh, Horace
Percival, Betty Huntley-Wright,
Tessa Deane, Arnold Matters.
9.0—Jack Payne's Band.
9.40—The Third News.
10.55—BBC Orchestra (Section C),
conducted by Leslie Heward:
Overture, The Ruler of the
Spirits (Weber); Concertor grosso,
Op. 17 (Filip Lazar); Symphony
No. 3, in A minor (Borodin);
Concert Overture, No. 2 (LarsBrik Larsson).
11.15—Maurice Winnick's Orchestra.

11.30-12.0—Dance records.

London Regional For Time Signals, see Monday. 10.15-10.45 a.m.—National. 10.45-BBC N. Ireland Orchestra. 11.45-BBC West of England

Singers.
12.15 p.m.—Records.
12.30—Harry Engleman's Quintet.
1.0—"How to look at a river:"
John Moore.
1.15—Philip Martell's Orchestra.
2.15—Eric Shrimpton (Electric and Spanish Guitar).
2.30—Dorothy Canberra (Soprano);
The Bronkhurst Trio.

3.15-King's Royal Rifle Corps

3.15—King's Royal Rifle Corps Band.
3.55—"Professional Pride:" short story by J. D. Beresford.
4.15—"Steamboat:" variety, music, and drama.
5.0—The Children's Hour.
6.0—Records.
6.30—Sandy Macpherson (BBC Theatre Organ).
7.0—"The Dog's Chance:" J. Wentworth Day.
7.30—The Second News.
8.0—From the Promenade Concert at Queen's Hall, London: Jean Pougnet (Violin); BBC Symphony Orchestra, conducted by Sir Henry Wood: Overture, Euryanthe (Weber); Violin Concerto in B minor (Elgar).
9.5—"Jane Austen in the West."
9.40—Variety from the Hippodrome, Bristol.
10.25—Maurice Winnick's Orchestra.

tra. 11.30—Records. 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 Orchestra: Harry
Porter (Tenor).
7.0—Regional.
7.20—Midland Announcements.
7.30—Regional.
9.40—The Cinderford Male Voice
Choir: Reginald New (Organ);
Chick Fowler (Gloucestershire
George) from the Town Hall,
Cheltenham.
10.25-12.0—Regional.

Northern

Northern
10.15 a.m.-5.0 p.m.—Regional,
5.0—The Children's Hour,
6.0—John Brennan (Pfte.); Margaret Ward (Violin).
6.30—Regional.
7.20—A.R.P. News in the North;
For Northern Farmers,
7.30—Regional.
9.40—Cleveland Harmonic Male
Voice Choir: Andrew Bevan
(Violin).
10.25-12.0—Regional.

Western m.—National. 10.45 a.m.-5.0 p.m.—National. 5.0—The Children's Hour. 6.0—Records. 6.20—"Chess Masters at Plymouth."

6.30—Regional.
7.20—" Week-end away — Cornwall:" Jack Mannell.
7.30—Regional.
9.40-10.25 — Variety from the Hippodrome, Bristol.

Welsh

Welsh
10.15 a.m.—Welsh Service.
10.30-5.0 p.m.—Regional.
5.0—The Children's Hour,
6.0—Regional.
7.0—Welsh News,
7.20—Welsh Amateur Golf Championships, from the Rhyl Golf Club.
7.30—Regional.
9.5—Welsh light programme.
9.40—Sam a Simon.
10.0—General knowledge competition in Welsh between Y Garreg and Llanbedr in Merionethshire.
10.25-12.0—Regional.

N. Ireland

N. Ireland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour,
6.0—Frank Rea's Orchestra.
6.30—Regional.
7.20—N. Ireland News.
7.30—Regional.
9.5—Ulster Radio Drama Festival.
9.25—"Counting the Stars: "Bart
J. Bok, Professor of Astronomy
at Harvard University,
9.40-12.0—Regional.

Scottish Scottish

10.15 a.m.-2.10 p.m.—Regional.
2.10—Herring Fishing Bulletin.
2.15-3.15—Regional.
3.30—Mid-Week Service from the Church of Scotland, Empire Exhibition (Scotland).
4.15—Regional.
5.0—The Children's Hour.
6.0—Regional.
7.0—'' Moving in Circles: '' Willa Muir.

7.0—"Moving in Circles:" Willa Muir.
7.20—Scottish Announcements.
7.30—Regional.
9.40—Scottish Dance Music.
10.5—The Three College Boys in "Star Spangle:" a foolish fantasy of Film Folk, with Pearl Colquhoun. Edmond Fraser, Jean Horn, W. H. D. Joss, Barbara Laing, Grace McChlery, C. Archer Mitchell. Ian Sadler.
10.30—Scottish News Summary.
10.45-12.0—Regional.

Sept. 8 THURSDAY

Hours of Transmission in British Summer Time.

BERLIN

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 6.0 a.m. 12.0 noon-See Munich. 2.0 p.m.—News; Water Level. 2.15—Libiszowski Band.

3.0-6.0-See Munich.

6.0—Light Music—Station Orchestra, Conductor: Willy Steiner, and the Hans Busch Band.
7.45—Evening Echoes.

8.0—News.
8.10—" Du, du liegst mir im Herzen"—Love-Songs and Dances by the Station Orchestra, 'Choir, etc.

etc.

0—Station Orchestra, Conductor:
Heinrich Steiner, Masurat (Violin)
and Schrader ('Cello), Comedy
Overture (Busoni), Duo (Pfitzner),
Country Dances (Paulsen), Variations on Gestern Abend war
Vetter Michel da (Schumann),

0—New 1, Sports

10.0—News; Sports.
10.30—See Stuttgart.
12.0 m²t.-3.0 a.m. (Friday)—See Königsberg.

BEROMÜNSTER

556 kc/s (439.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).

12.0 noon—Tauber Records. 12.29 p.m. — Time; News; Ex-

12.29 p.m. — Time; News; change.
12.40-1.45—Folk-Music.
4.30—For Invalids.
5.0-6.0—See Sottens.
6.30—Talk: Health Insurance.
7.20—Talk: Valais.
7.20—Talk: Valais.
7.45—Weather; News.
8.0—Swiss Folk-Songs.
8.50—Report: The Swiss Pos
Stamp Exhibition at Aarau.
9.15—Zürich Radio Orchestra.
10.25-10.30—Announcements.

BORDEAUX-LAFAYETTE

1,077 kc/s (278.6 m.); 60 kW.
Transmits at intervals from 6.30 a.m.
8.30 p.m.—The French Provinces
—Concert by the Station Orchestra. Conductor: Gayral, and the
Station Dramatic Troupe. After
the Programme—News.

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:
Talks; Hungarian Songs.
6.45—News (German).
7.0—See Prague.
7.25—Operetta Music—Station Orchestra and Blaho (Tenor),
7.55—Talk.
8.5—Moyzes Music—Station Orchestra. Conductor: Dyk, Zita Fresová (Soprano), Blaho (Tenor), and Flögl (Bass). Slovak Folksongs. Overture, "Ludevit Stur."
8.35—Reading.
8.45—Liza Fuchsová (Pfte.).
9.55—See Brno.
9.55—See Prague.
10.15—News (Hungarian).
10.30-11.0—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 — Station Orchestras.
Conductors: Weisshaupt and
Topitz; at 1.0-1.15 p.m.—Time;
News.
2.0—News; Exchange.
2.15—See Berlin.
3.0-6.0—See Munich.
6.0—Opera Melodies (Records).
6.35—Talk: Famous Battles—
Palestine, 1916-1918.
6.55—Programmes.
7.0 (from Gleiwitz)—Hindenburg
Madrigal Choir, a Lute Trio and
the Beuthen Chamber Music Ensemble.
8.0—News.
8.10—"Musical Kaleidoscope"—
Records.

81 THURSDAY (September

9.0—Hattwig Trio, Trio in B flat (Mozart). Trio (Rachmaninoff). 10.0—News; Topical. 10.0—News; Topical. 10.30—See Stuttgart. 12.0 m't.-3.0 a.m. (Friday)—See Königsberg.

PRNO

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

Transmits at intervals from 6.0 a.m.
6.0 p.m.—German Transmission:
For Workers; Talks; Records.
6.35—Merkurieff (Balalaika).
6.45—News (German).
7.0—See Prague.
7.25-8.35—See Bratislava.
8.35—See Prague.
9.5—Bro Salon Orchestra; "Allo"
Vocal Trio.
9.55—See Prague.
10.15-11.0—Revue (Records) from
Moravská-Ostrava.

BRUSSELS (No. 1) 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.—Weather; Shipping. 12.35—Light Orchestral; at 1.0—

12.35—Light Orchestral; at 1.0— News.
1.30—Records; Art Notes.
2.3 (approx.) — Programme from the Radio Exhibition, Brussels.
4.55—News; Records.
5.30—For Children.
6.0—For Women.
6.15—Light Orchestral.
7.0—For Workers; Records.
7.30—News.
8.0—11.0—Programme from Théâtre

7.30-News. 8.0-11.0-Programme from Théâtre Royal de la Monnaie. "La .0-11.0—Programme from Théâtre Royal de la Monnaie. "La Bohème" (Puccini). Orchestra, Conductor: Bastin. Cast: De Guyse, Toutenel, Wilkin, Resnik, Yvonne Ysaye, Mme Derval, etc.; Spanish Caprice (Rimsky - Korsakov). Orchestra, Conductor: Defossez. In the intervals at 9.10—Talk; Records; at 10.30—News; Records.

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. 12.30 p.m.—Cabaret. 12.40—Brenders Jazz Band. 1.0—News; Salon Orchestra. 1.30-2.0—Cabaret; Records.

1.0—News; Salon Orchestra,
1.30-2.0—Cabaret; Records,
4.55—News.
5.0—Salon Orchestra; Records,
5.45—For Children; Records,
6.45—Talk; Film Notes,
7.3—Paul Van Crombruggen Music.
Treza Van Aerden (Soprano),
Alice Peeters (Pfte.). In memoriam. Children's Songs. Emmanuel. Pfte.: Parabola. Two
Carols. Sinte Lutgardis.
7.30—Amateur Photography.
8.00—Records.
8.45—Talk: Thans, Priest-Poet.
9.00—Symphony Orchestra. Conductor: Dejoncker. Rosane Van
Neste (Pfte.). Pfte. Concerto in
C minor (Saint-Saëns). Ballet,
"Raymonda" (Glazunov).
9.50—Hymn (Davies).
10.00—News.
10.10—Symphony Orchestra
(contd.). Bolero (Ravel).
10.30-11.0—Brenders Jazz Band.

BUCHAREST

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Transmits at intervals from 7.30 a.m. 6.0 p.m.—Dance Records. 7.0—Talk. 7.15—Constantin Stroesco (Songs). 7.40—Mme Maria Tanase (Romanian Folk Songs). 8.5—Art Notes. 8.20—Radio Orchestra. Conductor: Rozalski.

Rogalski.
9.30—News; Sports Notes.
9.45—Restaurant Concert.
10.45—News in German.

BUDAPEST

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 9.30 a.m. 12.30 p.m.—Orchestra; at 1.5—

Transmits at intervals from 9.30 a.m.
12.30 p.m.—Orchestra; at 1.5—
Weekly Review.
2.0—Records.
3.0—Reading.
3.30—Station Band.
4.40—Reading.
5.10—Records.
6.15—Talk: The Two Wesselényi.
6.45—Pertis Cigány Band; at 7.15
—News (Slovak).
7.50—Sports Report.
8.0—"From London to Bánfalva"
—Play (A. and M. Simor).
9.0—News.

9.20—Budapest Concert Orchestra.
Conductor: Rajter. Overture,
"Der Freischütz" (Weber).
Symphonic Poem, Don Juan
(Strauss). Romantic Symphony
(Count Eszterházy).
10.30—Sándor Végh (Violin). Sonata in A (Corelli). Romance in
G (Beethoven). Scherzo (Doh-

nányi). La campanella (Paganin) 11.0—News (German, Italian). 11.10—Weidinger Jazz Band. 12.5 a.m. (Friday)—News.

COLOGNE

COLOGNE

658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon—See Munich.
2.0 p.m.—News; Cologne Melodies.
3.0-6.0—See Munich.
6.10—Trio in F (Schumann), by the Ottersbach Trio.
6.35—Songs and Legends of Düren.
7.0—Orchestra, Conductor: Kühn (Recorded). Napoli (R. Strauss).
Perpetuum mobile (Paganini). Excerpt, Symphonie fantastique (Berlioz). Finale from the Fourth Symphony (Tchaikovsky).
7.35—Records: Richard Strauss Songs by Schlusnus (Baritone).
8.0—News.
8.10—Station Choir and Orchestra.
Conductor: Adams, Kunze (Basseon). Male Voice Choir Das

News.
-Station Choir and Orchestra.
-Kunze (Bas-

8.10—Station Choir and Orchestra,
Conductor: Adams, Kunze (Bassoon), Male Voice Choir: Das
Erdenlied (Haletzki). Bassoon
Concerto in B flat (Mozart).
Glückwunschkantate (Lang). German Folk - Songs for Strings
(Kässinger). Overture in D
(Haydn).
9.0-10.0—See Munich.
10.0—News; Records,
10.30—See Hamburg.
12.0 m't.-3.0 a.m. (Friday)—See
Königsberg.

DEUTSCHLANDSENDER

DEUTSCHLANDSENDER
191 ke/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—Jäger Band and Records.
3.0—Weather; Markets; Exchange.
3.15—German Folk-Songs by the
Berlin Hitler Youth Mozart
Chair

3.0—Weather; Markets; Exchange.
3.15—German Folk-Songs by the Berlin Hitler Youth Mozart Choir.
3.45—Records: Famous Choirs.
3.55—Programmes.
4.0—Dobrindt Band, Oskar Sala (Trautonium) and Walter Thiele (Pfte.).
5.0—Quartets (Reznicek, Beethoven) by the Kniestädt String Quartet.
6.0—Talk: The Styrian Iron and Steel Industry.
6.30—"Musikalische Spielsachen" (Kusche). The Composer and Schmidmeier (Pftes.) and Speakers (Recorded).
7.0—Italian and Hungarian Music—Orchestra. Conductor: List, Ruralia Hungarica (Dohnányi).
Ballet Music, "La Boutique fantasque" (Rossini-Respighi). In moto perpetuo (Paganini).
Pesther Carneval (Liszt).
8.0 - 10.20 — Programme from Munich.
10.20—Serenade—Pfte. Trio in E (Mozart) by Riebensahm (Pfte.), Masurat (Violin) and Schrader ('Cello).
10.45—Weather.
11.0—Hamburg Station Orchestra. Conductor: Müller - Lampertz (Recorded). Bridal Procession (Rimsky-Korsakov). Prelude à l'après-midi d'un faune (Debussy). Comedy Overture (Fiedler). Klehn Theater Suite (Lothar). Miniature Suite (Coates). Overture, Treffpunkt Wien (Fischer).
12.0 m*t.-2.0 u.m. (Friday)—See Stuttgart; at 12.55—Time.

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 Munich.
2.0 p.m.—Time; News.
2.15—See Hamburg.
3.0-6.0—See Munich.
6.0—Records: Schütz Dance Band,
7.0—Sports.
7.10 (from Cassel)—Variety Concert—Mandoline Band, Accordion Ensemble and Weidinger (Guitar).
8.0—Time; News.
8.15 — Operetta Music — Station Choir and Orchestra. Conductor:
Lobertz; Maria Madlen Madsen (Soprano) and Herrmann (Tenor).
Excerpts, "Wiener Frauen" (Lehár), "La Mascotte" (Audran). "Die Kätzchen" (Hugo Felix), "Die drei alten Schachteln" (Kollo), "Fanny Elssler" (Strauss), "Diplomatic

und Liebe " (Lobertz), " Mädi " (Stolz), " Prinz Eugen " (Pflugmacher), " The Tango Queen " (Lehár), " Glückliche Reise " (Künneke), " Abenteuer der Liebe" (Vetterling), " The und Liebe" (Lobertz), "Mädi" (Stolz), "Prinz Eugen" (Pflugmacher), "The Tango Queen" (Lehár), "Glückliche Reise" (Künneke), "Abenteuer der Liebe" (Vetterling), "The Student Prince" (Romberg), "Die grosse Sünderin" (Künneke), "The Veil of Pierrette" (Dohnányi), "Die Kaiserin Katharina" (Kattnigg) and "Tatjana" (Lehár). In the interval, Schütz Dance Band. 0.0—Time; News; Sports. 0.30-2.0 a.m. (Friday)—See Stutt-

10.20—Talk. 10.30-2.0 a.m. (Friday)—See Stutt-

2.0-3.0—Serenade from Königsberg

HAMBURG

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. ransmits at intervals from 5.45 a.m. 12.0 noon—Kiel Orchestra. Conductor: Döring.
1.0 p.m.—Weather; Topical.
1.15—Music from Munich.

.15—Music from Munich.
.0—News.
.15—Music.
.0-6.0—See Munich.
.0-German Youth from outside the Reich at the Microphone (Recorded).
.30—Records.
.45—Weather; Shipping.
.9—Station Orchestra. Conductor: Manikowsky, Hermanns (Pite.). Suite. Rakastava (Sibelius). Pite. Concerto in F minor (Hermanns), Overture, Julius Caesar (Schumann).

Overture, mann).
7.45—Topical.
8.0—News.
8.10—Station Orchestra, Conductor: Manikowsky. Symphonic Poem, Les Préludes (Liszt). Overture, "Peter Schmoll' (Weber). German Dances (Schubert). Fröhliche Musik (Lürman).
9.0-10.0—See Munich.

bert). Fröhliche Musik (Edithal), 9.0-10.0—See Munich, 10.0—News. 10.30 (from Hanover)—Orchestra, 12.0 m't.-3.0 a.m. (Friday)—See Königsberg.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 5.40 p.m.; 150 kW from

until 5.40 p.m.; 150 kW from 5.40 p.m. AVRO Programme: 7.40 a.m.—Time; Records. 9.40—Service; Records. 10.10—AVRO Orchestra (Recorded); at 10.40-31.10—Reading. 11.55—Weather; Records. 12.10 p.m.—AVRO Orchestra. Conductor: Treep. 1.40—Netty Nije-Smits (Soprano). 2.10—Records.

.Conductor: I reep.
.40—Netty Nije-Smits (Soprano).
.10—Records.
.25—The Dutch Royal Anniversary: Launching by H.M. Queen Wilhelmina of the M.S. "Oranje" on the "Y," Amsterdam, followed by Review of Merchant Shipning.

lowed by Review of Marking.
Shipping.
1.10—For Invalids.
1.49—Stories for Children.
1.10—The Palladians.
1.10—Sports Talk.
1.40—Elsa Wolters (Pfte.).
1.10—The Dutch Royal Anniversary: Festivities in Amsterdam.

sary: Festivities in Allister 7,40—News. 7,40—Records: Music of Forty

7.40—News.
7.55—Records: Music of Porty
Years Ago.
8.5—"Forty Years of Operetta"
(arr. Samehtini)—Choir and Orchestra. Conductor: Max Tak.
Weynschenk-Hogenbirk (Soprano),
Bep Ogterop (Contralto), Henk
Viskil (Tenor), and Theo Bayle
(Baritone).
9.5—"Forty Years of Cabaret"
(arr. Alex de Haas).
9.40—Records.

9.5—"Forty Years of Cabaret" (arr. Alex de Haas).
9.40—Records.
10.10—The Dutch Royal Anniversary: Festivities in Amsterdam.
10.40—News; Harry Calling's Dance Band from the Carlton Hotel, Amsterdam.
11.40—National Anthem.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW until 5.40 p.m.; 60 kW from 5.40 p.m. Also on Jaareveld, 722 kc/s (415.4 m.); 17 kW. 7.40-8.55 a.m.—KRO Programme:

Records. 9.40-10.40-NCRV Programme. 9.40-Records. 9.55-Service; Records. 10.40 a.m.-1.40 p.m.-KRO Pro-

10.40 a.m.-1.40 p.m.—KRO Programme.
10.40—Records.
11.10—Religious Address.
11.40—Police Messages; Records.
12.10—Coleridge-Taylor Music—KRO Orchestra. Conductor: van 't Woud. Scenes from an Imaginary Ballet. African Suite. Excerpts, "Hiawatha."
12.40—Records.
1.0—KRO Orchestra. Conductor: van 't Woud.

1.40 till Close-NCRV Programme

1.40 For Women,
2.10—The Dutch Royal Anniversary: Launching by H.M. Queen
Wilhelmina of the m.s. "Oranje"
on the "Y," Amsterdam, followed by Review of Merchant

lowed by Review of Merchant Shipping.
3.0—Records; Bible Reading.
4.25—Records.
4.40—For Children.
5.10—Quintolia Ensemble; Records.
6.25—Talk; Police Messages.
6.25—Weekly Press Review; Report.
7.40—News; S O S Messages.
7.55—"Wilhelmus van Nassaue:"
Anthem of a Free Holland—Historical Scenes by a Verse-Speaking Choir, The Hague Singers and the NCRV Orchestra. Conductor: v.d. Hurk.

Choir, The Hague Singers and the NCRV Orchestra. Conductor: v.d. Hurk.

9.25—NCRV Orchestra, Conductor: v.d. Hurk, and Records. Een Nederlandsch Volksfeest (v. d. Roovaart). Jubilee March (v. d. Mee). Holland in Song and Dance (Oomes). Records. Overture, "Rose Marie" (Viessing). Popourri of Dutch Songs (Jakma). Enfant de troupe (Barbe); at 9.40—Press Review.

10.25—Gym; Records.

11.30-11.40—Bible Reading.

KALUNDRORG

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.

noon-2.0 p.m.—Julian Or-

chestra. 2.30—Preil's Ensemble; at 3.20— Reading (Herdal). 4.30—For Children; Notes; Read-

ing. 5.25—Weather; Exchange; Markets.

ing.
5.25—Weather; Exchange; Markets.
5.50—Records.
6.15—Talk: Japan.
6.35—English Lesson.
7.0—Time; News.
7.30—Ernest Hemingway—Talk with Readings.
8.10—Scandinavian Music Festival from the Odd Fellows Palace—Norway. Radio Symphony Orchestra, Conductor: Grüner-Hegge, Erling Krogh (Songs). Part I. Theme with Variations (Ludvig Jensen). Excerpt, "The Bridegroom" (Groven). Lucretia Suite (Saeverud). Part II. Excerpt, "Baldur's Dreams" (Tveit), conducted by the Composer. Rondo infinito (Sinding).
10.9—News; Weather.
10.20—Norway in Song—Nordraak and Grieg Songs by Alette Garde.
10.40 — Excerpts, "Mad about Music."
10.55 p.m.-12.30 a.m. (Friday)—Preil's Dance Band: at 12.0 m*t.

Music."
10.55 p.m.-12.30 a.m. (Friday)—
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.). ransmits at intervals from 5.0 a.m.

12.0 noon—See Munich.
2.0 p.m. — News; Anniversaries;
Records.
3.55—Exchange.
3.0-6.0—See Munich.
6.0—Records.
6.30—Talk: East Prussian Folk
Customs.

Customs.
6.50—Announcements.
7.0—Krannke (Violin), and Winkler (Pfte.). Eremitage (Niemann). Suite (Sinding). Pfte. Pieces (Tchaikovsky).
7.40—Topical Report.
8.0—News.
8.15—Musical Hints by Hans Hellboff.

40 — Topical
O—News;
15—Musical Hints by Hans
Hellhoff, Peter Arco and the
Station Dance Band, Conductor:
Börschel.
0.0—News; Sports; Reading.
0.35 — Orchestra. Conductor:

10.35 — Orchestra, Conductor Wilcken.
12.0 m¹t-3.0 a.m. (Friday) — Serenade from Danzig—Orchestra. Conductor: Koschnick (Pfte.) and Böker (Tenor).

LEIPZIG

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). Transmits at intervals from 5,50 a.m.

12.0 noon—See Munich. 2.0 p.m.—News; Exchange; Re-

2.0 p.m.—News; Excusing, cords.
3.0-6.0—See Munich.
6.0—Talk.
6.20—Opera Records. Excerpts, "The Barber of Seville" (Rossini), "That and Carpenter" (Lortzing), "The Bartered Bride" (Smetana) and "Figaro" (Mozart).
6.45—Poems (Droste-Hülshoft).
7.0—Records: Folk-Music,
7.45—Topical.

8.0—News; Records.
9.0—See Berlin.
10.0—News; Sports.
10.30—See Stuttgart.
12.0 m't-3.0 a.m. (Friday)—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.—Station Orchestra. Conductor: Soret. Tendres reproches (Tchaikovsky). A Festival in Aranjuez (Demersemann). Ballet, "Faust" (Gounod).
7.30—Radio Journal; Weather.
8.0—Thurtalay Night Variety.
9.15—Station Orchestra. Overture, "Die Jagd nach dem Glück" (Suppé). Cortège carnavalesque (Razigade). Ma blonde amie (Volpatti). Selection, "The Three Musketeers" (Friml). Kermesse (Durand). Selection, "Fleur de thé" (Lecocq). Canzonetta (Filipucci). Waltz. Künsterleben (Strauss). Dolce Minuetto (Drdla). Selection, "Manon" (Massenet). After the Programme—News.

MONTE CENERA

1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon
7.50 p.m.—News.
8.0—Orchestra. Conductor: Nussio.
Overture, "Der Freischütz-"
(Weber). The Unfinished Symphony (Schubert). The Moldau
(Smetana).
8.45—"Un soggetto per novella"
—Sketch (Frigerio).
9.0-10.15—Records: "Don Pasquale" (Donizetti).

MOSCOW

172 kc/s (1,744 m.); 500 kW. and 300 kc/s (1,000 m.); 100 kW.

Transmits at intervals from 4.0 p.m. 6.0 p.m.—Literature; Concert or Opera (Records); at 6.30—Poli-

tics.

9.30—News; Kremlin Chimes.

10.0 p.m.-1.0 a.m. (Friday): 1,744

m. only. 10.0—Talks (French, 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—Station Dance Band and Ranftl Preissler and his

12.0 noon—Station Dance Band and Ranftl Preissler and his Soloists.

2.0 p.m.—News; Exchange.

2.15—See Hamburg.

3.0-6.0 (from Nürnberg) — The Reich Party Congress—Gala Concert. In the intervals, Reports of the Athletic Contests.

6.0—Symphony Concert — Radio Orchestra. Conductor: Winter (Recorded). Overture, "Iphigenia in Aulis" (Glück). Symphony in C (Schubert).

7.0—Station Orchestra. Conductor: Mihalovic Kunig (Tenor) and Kühberger (Accordion); at 8.0—Time; News.

9.0-10.0 (from Nürnberg) — Reich Party Congress — Gala Radio Concert. In the intervals, Description of the Torchlight Procession of Political Leaders.

10.0—Time; News; Sports.

10.20—To be announced.

10.30—See Stuttgart.

12.0 m't.-3.0 a.m. (Friday)—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.

1 ransmits at intervals from 7.45 a.m., 7.0 p.m.,—Light Music, Topical, 7.20—Nineteenth Century Music. 8.0—Time; News. 8.30—"La romanza di Liszt" (Konyati). In the interval, Talks. 10.30 (approx.)—Dance Music. 11.0-11.56—News; 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.in.—Records.
5.55—Service.
6.20—Concert. Part I: Norwegian
Songs (Sinding) by Jenny Jahren.
Part II: Norwegian Dances by
Nils Borge (Violin).
6.45—News; Reading.
7.30—Ekeland (Accordion).
7.45—Records; Talk.
8.10—Scandinavian Music Festival
(for details, see Kalundborg).
9.45—News; Topical Talk.
10.20-11.0—Billy Mayert Music by
the Bergen Radio Orchestra and
Berge (Pftc.).

PARIS (Eiffel Tower) PARIS (Eiffel Tower)
1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.
7.30 p.in.—Radio Journal; News.
8.0—Germaine Corney (Songs) and
Mme Mathonnet de SaintGeorges (Pfte.). Les Myrtilles
(Dubois). Abeilles (Dubois).
Songs. Excerpt, "The Circus"
(Turina). Zapateado (Turina).
8.30—See Bordeaux-Lafayette.
10.30—Records.
11.0-11.15—News.

PARIS (Poste Parisien) 959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 6.28 a.m. 6.0 p.m.—Exchange, 6.10—Records: Symphony in D

6.10—Records: Symphony in D (Brahms).
6.58—Racing; Sports Notes.
7.10—Amusements; Records.
7.45—Saint-Saëns Records.
8.0—Topical.
8.15—Music-Hall with Solange Dorlene, Roger Nicolas and Pierre Dudan.
8.45—Talk.
9.0—Lecture Recital by Adolphe Borchard: Paul Robeson.
9.35— "La voix des mourants" (Diamant-Berger).
10.0—News; Records.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
4.0 p.m.—Suzanne Roche (Pfte.).
4.15—Talks; Record.
4.45—Bourbon Songs by Jeanne Andral; Records.
5.15—Sophie Cheiner (Pfte.) (Fauré, Lvadov).

5.15—Sophie Cheiner (Pfte.) (Fauré, Lyadov).
5.30—Joseph Tzipine ('Cello). (Slonov, Glazunov).
5.45—Grammar Lesson; Records.
6.0—For Farmers.
6.15—Talk: Public Health.
6.30—Pierre Revel (Organ), from the Schola Cantorum. Sonata in E flat (Bach). Choral, Wachet auf, ruft uns die Stimme (Bach). Meditation (Revel), In Paradisum (Lesur). Le banquet Céleste (Messiaen).

(Lesur). Le banquet Céleste (Messiaen). 7.0—Radio Journal; News. 8.0—Records. 8.30—"Musse" or "L'école de l'hypocrisie" — Four-Act Play (Romains), by the Art et Travail Players. 10.30—Radio Journal; News. 10.45—Records.

PARIS (Radio-Paris)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes.
6.30—Time; News; Records.
6.50—Gym and Records.
8.29—Time; News; Records.
9.0-9.7—News.
9.0-9.7—News.
11.0—Records.
11.45—Exchange; Water Level.
12.0 noon—Protestant Address.
12.20 p.m.—Giardino Orchestra.
12.0 noon—Protestant Address.
12.20 p.m.—Giardino Orchestra.
1.0—Time; News; Exchange.
1.30—Giardino Orchestra.
2.0—Programmes; Talks.
2.30—Exchange; Markets.
2.45—Charpentier Records.
3.15—Readings.
3.45—Exchange; Records.
4.50—Exchange; Records.
4.50—Exchange; Markets.
5.0—One-Act Plays by the Odéon Players: (a) "Les Précieuses ridicules" (Moilere), (b) "Quitte pour la Peur" (de Vigny),
6.30—Reading (Drieu La Rochelle).
6.45—Medical Talk; Programmes.
7.0—Denise Morand ("Cello). Two Chorals (Bach). Les Chérubins (Couperin). Abendlied (Schumann). Guitar (Moszkowski).
7.15—Records.
7.30—Literature for Young People.
7.45—Reading (Binet).
7.59—Time; Foreign Affairs.
8.8—Home Affairs.
8.15—Jean Planel (Franck and Debussy Songs).
8.25—Talk on the following Programme.
8.30—11.36—"Le Bon Roi Dagobers." (Marcel Samuel-Reusean)

gramme.
8.30-11.36—"Le Bon Roi Dagobert" (Marcel Samuel-Rousseau), from the Opéra-Comique. Conductor: Bigot.

PRAGUE

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m.

5.0 p.m. — Prague Children's
Homage at the Tomb of Tycho
Brahe, the Palladium of StaráBoleslav, in the Tyn Church,

5.40—Jarmila Mikolásová (Soprano). 6.0—For Farmers.

6.10—For Workers. 6.20—Kostál Salon Orchestra.

0—Time; News; Topical. 25-8.35—See Bratislava. 35—"The Music Cure"—One-Act Play (G. B. Shaw, trans.

Tetauer).
5—Hüttel Music by the Station
Orchestra, Conductor: The
Composer. Pictures from Cairo.
Divertissement, Egyptian Rhap-

sody. 9.55—News; Revue (Records) from Moravská-Ostrava. 11.0-11.15—News in English.

RADIO EIREANN

KADIO EIREANN 565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30 p.m.—Records. 2.30-3.0—For Schools. 5.30—Records: Hungarian Ćigány

Band.

O—" The Nativity of the Blessed Virgin "—Short Play and Music. 6.0— Virgin

6.45—News.
7.5—Michael Grogan (Accordion).

7.5—Michael Grogan (Accordion).
7.20—Daoine Stairiula, "Naomh Lughaidh na Frainnce"—Michael Breathnach.
7.45—Irish Music—Irish Radio Orchestra. Conductor: Lieut. D. P. O'Hara, Siobhan Ní Thuama (Songs in Irish) and Joseph Napier (Harmonica).
8.30—Burning Questions, No. 1—How Can the Gaeltacht be Saved? Chairman: Michael McGilligan. Speakers: Ernest Blythe, Linda Kearns, Michael Tierney and John Howley.
9.0—Light Music—Vera Nugent (Pfte.).

9.0—Light Music—Vera (Pfte.).

9.20—Nuacht an Lae—A Gaelic News Broadcast.

9.30—Variety.
10.30—News; National Anthem.



Exclusive "World-Radio" Picture Madame Jeanne Andral, who sings Bourbon songs at Paris (PTT) at 4.45 p.m.

RADIO-NORMANDIE 1,411 kc/s (212.6 m.); 15 kW. 6.26 a.m.—Nos vieux pommiers 6.25 a.m.—Nos vieux pommiers (Dior).
6.30—Press Review; Music.
7.0—Radio Reveille; at 7.15—
Time; and at 7.30—Time;
Weather.
745 Physical Exercise.

Weather.
7.45—Physical Exercises.
8.0—The Three Tops—Music, Song and Laughter.
8.16—Time; Roy Fox's Band, with Mary Lee and Denny Dennis.
8.30—News.
8.40—Your Message from the Stars

8.40 — Your Message from the Stars.
8.45—Popular Tunes,
9.0—Time; Mandoline Music.
9.15—Play Your Way to Happiness with Arthur Young.
9.30—Music you might have heard.
9.45—Hutch—Romantic Singer,
10.0—Time; Radio Favourites.
10.15—From the Old-Time Music-Hall

10.0—Time; Radio Favourites.
10.15—From the Old-Time Music-Hall.
10.30—Highlights on Parade, with Alfred Van Dam's Orchestra and Wyn Richmond.
10.45—This was 1933.
11.0—Time; The Songs we know them by.
11.15—Something for Everybody.
11.30—Film Music.
12.0 noon—Orchestra.
12.20 p.m.—News.
1.0—For Children.
2.30—Miniature Matinée.
3.0—Time; Concert Hall.
3.15—Movie Memories.
3.45—The Musical Mirror.
4.0—Time; What's the Answer.
4.30—Felix Mendelssohn's Orchestra, Paula Green and George Barclay.

Barclay. 4.45—Request Music.

5.15—For Boys and Girls,
5.45—Comedyland.
6.0—Markets.
6.5—Orchestra, Puccini Potpourri.
Rakoczky March (Liszt), Waltz
Potpourri (Robrecht), An Evening with Liszt (Urbach), Marche aux fambeaux (Meyerbeer), Selection, "Countess Maritza" (Kálmán).
6.45—Talk; News; Racing.
7.0—Chansonnettes.
8.0—Alice Noguet (Songs).
8.40—Violin Recital. The Love Letter (Steward). Invocation (Kreisler), Melody in F (Rubinstein), Oriental Romance (Rimsky-Korsakov).
9.0—Morselli Orchestra from the Café de la Bourse, Rouen. In the interval, Talk by M. Brille.
11.0—Cafe Concert.
12.0 m't.—Melody at Midnight.
12.30—1.0 a.m. (Friday)—Time; Dance Music.

RENNES-BRETAGNE

RENNES-BREIAGNE
1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
8.0 p.m.—News; Announcements;
Amusements; Records.
8.10—Talk: Fishing.
8.30—See Paris (PTT).
10.30—News; Music.

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—Gabriella Scala (Pfte.). Toccata in C (Bach-Busoni). Two Etudes (Chopin). Poemetti pagani (Rossellini).
5.50—Aviation Notes; Weather.
6.0—For Merchant Shipping.
6.25-6.55—Talk.
7.0—Talk in Czech.
7.20—Dopolavoro Notes.
7.30—Orchestra.
8.0—Time; News; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—Band.

9.0—b 9.30 — Naples only)—Light Music —Band. — Piedigrotta, 1938, from

11.0-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 (290.9 m.).

Transmits at intervals from 6.0 a.m.
12.0 noon—See Munich.
2.0 p.m.—News.
2.15—See Berlin.
3.0-6.0—See Munich.
6.0—Light and Dance Music —
Station Orchestra and the Four Merry Musicians.
7.30—Topical Review.
8.10—Station Orchestra. Conductor:
Hörner, Edith Rego (Soprano) and Leiseifer (Tenor).
9.0—"The Concert" — Sketch (Neubert).
9.25—Orchestra, etc. (contd.).
10.0 — Time; News; Frontier Notes.

Notes.

Notes. 10.30—See Stuttgart. 12.0 m't.-3.0 a.m. (Friday) — See Königsberg.

SOTTENS

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).

Relayed by Geneva, 401 kc/s (748 m.).
12.29 p.m.—Time; News.
12.40-1.45—Records.
5.0—Geneva Radio Ensemble.
5.25 (from Geneva)—Ellen Benoit (Songs) and Mme Vaucher-Clerc (Harpsichord).
6.0—For Children.
6.30—Records: Sonata in C (Beethoven) by Schnabel (Pfte.).
6.50—Sports and Tourism.
7.0—Records.
7.30—Theatre Review.
7.40—Medical Talk.
7.50—News; Weather.
8.0—Soiree de Chansons — Edith Burger and René Bersin and Compány.
9.15—Opienski Music—Radio Suisse romande Orchestra. Conductor: Haug; Mme Barbian-Opienski and Maroussia d'Ernst (Songs). Symphonic Poem. L'Amour et le Destin. Three Songs. Dance.
Aria, "L'Enfant Prodigue." Excerpts. "Maria."

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m. 5.5 p.m.—Service from Malmö. 5.30—Ballad in G minor (Grieg) by Ahlberg (Pfte.).

THURSDAY (September 8)

5.45—Talk: Venison.
6.0—Records.
7.0—News; Weather; Topical.
7.30—Reading (Norlind).
8.0—Operetta Music, Radio Orchestra. Conductor: Grevillius.
March, "The Three Musketeers"
(Benatzky). Selection, "The
Dollar Princess" (Fall). Foxtrot
Potpourri, "The Gipsy Princess"
(Kálmán-Dostal). Spanish Waltz Dollar Princess" (Fall). Foxtron-Potpourri, "The Gipsy Princess" (Kálmán-Dostal). Spanish Waltz (Lincke). Selection, Gold Diggers of 1937 (Arlen). Potpourri (Gershwin). Manhattan Cocktail (Engleman). 8.50—A Play. 10.0—News; Weather. 10.15-11.0 (from Göteborg)—Asti Rand

STRASBOURG

851RASBOURG
859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—News.
7.30—Cholé (Přie.). Two Preludes
and Fugues from Das wohltemperirte Klavier (Bach). Etude and
Two Mazurkas (Chopin). Arabesque (Schumann). Rondo (Roussel).

sel).
8.0—News (German, French).
8.30—Folk-Music.
9.0—Records.
9.10—"Der Besuch" (Play).
10.0—Anny Meer (Soprano), Drouin (Baritone).
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 Munich.
2.0-3.0 p.m. — Records: Light Music.
4.0—Light Music.
5.0—Records.
6.0—Readings (Hermann Burte).
6.30—Topical.
7.0 — "Swabian Characters" — Sketches (Stockinger), with the Stuttgart Folk-Music' Ensemble.
8.0—News.

8.0—News. 8.15—See Frankfurt.

8.15—See Frankfurt.

10.0—Time; News; Sports.

10.30—Folk-Music and Light Music
—Station Orchestra. Conductor:
Butz-Bara, Johanna Angermann
(Soprano). Faiss (Guitar), Benzinger (Harpsichord), the Stuttgart Folk-Music Ensemble, Hanus and Pöttner (Folk-Songs).

12.0 m't.—Serenade on Records—Part I. Sonata for Pfte. and Violin (Brahms). Songs (Brahms):

(a) Sonntag, (b) Wie bist dumeine Königin. "Hymnus der Liebe" for Contralto and Orchestra (Reger). Part II. Bach Concert Toccata and Fugue in D minor for Organ. Excerpts, St. Matthew Passion. Chromatic Fantasia and Fugue for Pfte.

2.0-3.0 a.m. (Friday) — Serenade from Königsberg.

TOULOUSE (Radio-

Toulouse) 913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m.

Transmits at intervals from 8.0 a.n. 6.0 p.m.—News; Film Music. 6.40—Light Music. 6.55—News; Sports. 7.0—Bal Champètre. 7.15—Songs; Tangos. 8.0—News; Dances. 8.30—Talk; Light Music. 8.45—Musette Orchestra; Talk. 9.15—Cuban Music. 9.30—"Les Iles"—Fantasy. 10.0—News. 10.15—Request Programme. 10.45—Tangos. 11.0—Light Music. 11.55-12.0 m't.—News.

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.

15—Maria Teresa Mariani (So-prano) and Alberto Marchionni (Tenor).

5.50-6.55-See Rome Group. 7.19 (Rome (No. 2) only)—News in English. 7.20-8.30—See Rome Group

7.20-8.30—See Rome Group.
8.30—Radio Orchestra. Ultimissime (Ansaldo). Alborada nueva (Escobar). Festa in Val d'Aosta (De Nardis). Only an hour (Davis). Toccando e saltando (Englemann). Memorie (Petralia). Carovana nottuma (Ranzato). Stelle (De Serra) ; at 8.36 (Milan

(No. 1), Rome (No. 2), and Bol-zano)—News and Talk in Ger-

man.

9.0—Opera Records.

9.0—The International Festival of Contemporary Music at Venice: Symphony Concert. Conductor: La Rosa Parodi; Antonio Abussi (Violin). Introduction, Passacaglia and Finale (Salviucci). Violin Concerto (Bianchi), Idillio (Masetti). La morte di Ermengarda (Frazzi). Composizione per orchestra (Tocchi). In the interval, Talk.

11.0—News.

11.0—News. 11.15-11.55—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—Vienna Symphony Orchestra. Conductor: Schönherr.
Third Symphony (Schubert).
Variations and Fugue (Reger).
1.0 p.m.—News.
1.15—Music from Munich.
2.0—News.

1.15—Music from Munich.
2.0—News.
2.10—Records. Festival Overture (Raff). Wedding March and Dance from the Scandinavian Folk Music Suite (Hartmann). Folk-Song: Lang, lang ist es her. Andante un poco adagio (Brahms). Waltz, Die Kosenden (Lanner). Maienzeit (Silcher). Melodien vom Rhein (Höser). Intermezzo, Hans im Glück (Noack). Serenade, Ein Gruss an Johanni (Hans Busch). March (Ziehrer).
3.0-6.0—See Munich.
6.0—Orchestra. Conductor: Kattnigg. Overture to an Opera. Ballet Suite (Lully). Two Symphonic Dances (Grieg). Die Tänze der Fanny Elssler (Schröder). Excerpts, "Kaiserin Katharina" (Kattnigg).
7.0—Chamber Music — Wanausek (Flute). Hanak (Oboe). Ortner (Clarinet), Pruscha (Horn) and Schieder (Bassoon). Wind Quintet (Danzi). Variations on a Mozart Theme (Dité).
7.30—Topical Report.
8.10—Station Orchestra. Conductor: Sandauer. Noe (Flute). Overture, "The Seraglio" (Mozart). Excerpts, "Eva" (Lehár). Flute: Cavatina (Suppe). Wiener Künstler Marsch (Schrammel). Suite, Aus meinem Tagebuch (Rust). Serenade (Künneke). March, Hoch Heidecksburg (Herzer). March (Komzzák).

zák). 9.0-10.0—See Munich. 10.0—News. 10.30—See Stuttgart. 12.0 m*t.-3.0 a.m. (Friday) — See Königsberg.

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.—Light Music. Poznań
Station Orchestra. Conductor t
Raabe. Misielewska (Soprano)
and Stefanski (Vibraphone).
445 Telle The Plind

4.45—Talk: The Blind.
5.0—Rachon Ensemble from the Radio Exhibition. In the interval —Programmes.

6.0 (from Poznań)—Talk.
6.10 (from Torun)—Boys' Choir.
Conductor: Nowakowski.
6.30—A Play (Knan, trans. Wohnout).

7.0 (from Lódz)—Violin Sonata (Grieg) by Nietsch and Heintze. 7.20—Topical Talk.

7.20—Topical Talk.
7.30 (from Katowice)—Salon Orchestra, Conductor: Leszczynski, The Revellers, etc. March, "Viktoria and her Hussar" (Abraham). Selection, "The Circus Princess" (Kálmán). Viennese Operetta Potpourri (Silving). In the interval—Recitation.

8.45—News; Topical Talk.
9.0 (from Poznań)—For Country
People.

9.10—Concert from the Radio Exhibition, Station Orchestra, Conductor: Górzynski, Szretter and Zelechowski (Songs),

9.50-Sports Notes.
10.0-Warsaw Quartet. Quartet in C minor (Brahms). Allegro in C minor (Schubert).

10.40—Dance Records.
10.55—Press Review.
11.0-11.15—News; Topical Talk in

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:
Topical; Report; Talk.
6.45—News in German.
7.0-8.25—See Prague.
8.25—" Between Six and Seven "—
Comedy (Kreische, trans. Rusko),
from Kosice.
9.10-10.15—See Prague.
10.15—News in Hungarian.
10.30-11.0—See Prague.

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—German Transmission:

17 anishis at intervals from 6.0 a.m., German Transmission: Talks; Records. 6.35—For Scouts. 6.45—News in German. 7.0-8.25—See Prague. 8.25—'Cello Sonata in F (R.

BRUSSELS (No. 1)
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.—Weather; Shipping. 12.35—Radio Orchestra; at 1.0-

Strauss).
8.50-10.20—See Prague.
10.20—News in Esperanto.
10.30-11.0—See Prague.

BRATISLAVA

BRESLAU

RRNO

FRIDAY Sept. 9

National
For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45—'African Shades and Sidelights:'' Major G. Stuart-Reid.
11.50—Norman Andrew (Organ).
13.20 p.m.—Ben Oakley's Orchestra.

12.20 p.m.—Ben Oakley's Or-chestra. 12.55—Serial Reading from "The Old Wives' Tale," by Arnold Bennett. 1.15—BBC Scottish Orchestra.

Old Wives' Tale," by Arnold Bennett.

1.15—BBC Scottish Orchestra.

2.15—Records.

3.0—Geiger's Orchestra.

3.30—George von Harten (Pfte.).

4.0—Records.

4.03—"Man from Outside," by L. Charles Douthwaite.

5.0—Isidore Schwiller's String Sextet; The Cecilian Trio.

6.0—The First News.

6.30—"Laying a garden path:"

W. P. Matthew.

6.45—"Virginia:" Musical Comedy by Herbert Clayton and Jack Waller.

7.45—Alvin Saxon's Dance Band.

8.20—From the Pronnenade Concert at Queen's Hall, London:
The Grinke Trio; BBC Symphony Orchestra, conducted by Sir Henry Wood—Beethoven.

9.40—The Third News.

10.5—"Lost in the Sahara:"

A. E. Filby.

10.20—"The Israelites in the Desert." BBC Chorus and Orchestra, conducted by Reginald Jacques.

11.0—George Elrick's Music

chestra, C. Jacques.
Jacques.
.0 — George Elrick's Music
Makers 11.30-12.0—Dance Re-11.0 — Ge Makers.

London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45 — Felton Rapley (Cinema Organ). 11.15 — Eric Briers (Violin).
11.45—Variety Orchestra of P.T.T. from Paris.
12.30 p.m.—The Wessex Players.
12.55—The Gerard Singers.

12.30 p.m.—The Wessex Players.
12.55—The Gerard Singers.
1.15—Records.
1.45—Eric Smith (BBC Theatre Organ). 2.15—Buffs Band.
2.55—"Where to have your baby:" discussion between a doctor and a mother.
3.15—Herman Darewski's Orchestra.
5.0—The Children's Hour.
6.0—Bernard Crook Quintet.
6.45—Ernest Frank (Baritone).
7.0—The Story of Flodden:
Colonel G. F. T. Leather.
7.20—For Farmers.
7.30—The Second News.
7.58—Chess: BBC v. Listeners.
8.0—"The Snake-Charmers of Egypt:" K. R. McPherson.
8.20—Excerpt from "Paradise on Parade," from Lowestoft.
5.59—Walford Hyden's Cafe Colette.
Orchestra.
9.30—Tobermory Treasure

8.50—Wallord riyuch's Care Orchestra. 9.30—Tobermory Treasure. 10.30—George Elrick's Music Makers. 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.
6.15—William Chambers (Baritone).
7.10—"The Road to Progress:"
evening classes in the Midlands.
7.20—Midland Announcements.
7.30—Regional.
8.0—See Nat, 10.45 a.m.
8.20—Regional.
8.50—Vincent Ladbrooke's Orchestra, 9.30-12.0—Regional.

Northern
10.15 a.m.-5.0 a.m.—Regional.
5.0—The Children's Hour.
6.0—Bernard Crook Quintet. 6.0—Bernard Crook Quinter,
6.45—Regional,
7.20—Brief Chronicle,
7.30—Regional,
8.0—"The New Brighton Follies
Pleasure on Parade."
8.45—Gladys Ripley (Contralto),
9.15—"My Week-end out of
Doors:" William Aspden,
9.30-12.0—Regional.

Western

10.45 a.m.-6.0 p.m.—National,
6.0—Regional.
7.0 — "Soccer Coaching," by
F. N. S. Creck.
7.20—Western Announcements,
7.36—Regional.
8.20 — Variety from the Bristol
Radio Exhibition, 8.50—Regional.

9.30—Swindon G.W.R. Male Voice Choir: Geoffrey Philippe (Pfte.). 10.15-10.30—" The Wild Deer of England:" Hon. James Best.

Welsh Welsh
10.15 a.m.—Welsh Service,
10.30-5.0 p.m.—Regional,
5.0—The Children's Hour,
6.0—BBC Welsh Orchestra: Brenda
Harris (Sopráno),
6.50—Welsh Amateur Golf Championships, '7.0—Regional,
7.20—Welsh Announcements,
7.30—Regional,
8.0—Baled a Sgwrs, 8.20—Regional,
8.50—Tabernacle (Skewen) Male
Voice Party: Emlyn Burns
(Tenor), 9.30-12.0—Regional.

N. Ireland
10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour.
6.0—Records. Records.
-Rehearsal for "Army Day." 7.0 — "The Week-end out of Doors." 7.20—N. Ireland News. Doors.'' 7.20—N. Ireland News. 7.30—Regional. 8.0—Irish Open Amateur Golf Championships. 8.10 — Country Concert from Omagh, County Tyrone. 8.35 — "Coastal Ride, 1883:" Lloyd Campbell. 8.50-12.0—Regional.

Scottish
10.15 a.m.-2.10 p.m.—Regional.
2.10—Herring Fishing Bulletin.
2.15-5.0—Regional.
5.0—The Children's Hour.
6.0—Military Band.
6.30—"Next Week You'll Hear."
6.40 — "The Week-end out of Doors," and "Saturday Sport."
6.50—Nicholas Coia (Accordion).
7.20—Scottish Announcements.
7.30—Regional.
8.0—Gaicty Whirl, 1938: variety.
8.30—Visitors' Book.
8.50—Regional.
10.30—Scottish Sports News.
10.35-12.0—Regional. Scottish

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—See Saarbrücken.
2.0 p.m.—News; Records.
2.30—See Munich.
6.0—Light Music—Libiszowski Orchestra and Records.
8.0—See Munich.
9.30—"Rhythm"—Records.
10.0—News; Sports Reports.
10.30—See Leipzig.
12.0 m't.-3.0 a.m. (Saturday) —
See Königsberg.

Othmar Schoeck, to whose music

Beromünster devotes its programme at 9.45 p.m.

BEROMÜNSTER

12.0 noon—Records.
12.30 p.m.—Weather; Shipping.
12.35—Radio Orchestra; at 1.0-1.10—News.
1.30—Records; Art Notes.
2.5—Programme from the Brussels Radio Exhibition,
4.55—Announcements.
5.0—Russian Music. Radio Orchestra. Conductor: Gason; Russian Mixed Choir of Brussels. Selection, "Ruslan and Ludmila" (Glinka). Three Songs. Spanish Caprice (Rimsky-Korsakov), Choir: (a) Prayer (Archangelsky), (b) Folk Song (Rimsky-Korsakov), (c) Song of the Don Cossacks. Selection, "The Sleeping Beauty" (Tchaikovsky),
6.0—For Soldiers.
6.18—Mille Essler (Songs).
6.30—Arabesque and Etudes (Schumann) by Constant (Pfte.).
6.50—Berlioz Records.
7.0—For Women.
7.15—A Competition.
7.30—News.
8.0—The Tenth Anniversary of the "Fraternelles des Régiments des Carabiniers." Record: Marche héroique de la Tribune (Gilson). Address by Lt.-Gen. Biebuyck, Aide-de-Camp to H.M. King Leopold. Marches by the Band of the "Régiment de Carabiniers Prince Baudouin."
9.0—Health Talk; Record.
9.15—Records (Brahms, Joh. Strauss).
10.0—News; Grieg Records.
10.57-11.0—March (d'Hazet).

BRUSSELS (No. 2)
932 kc/s (321.9 m.): 15 kW.

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 — Excerpts, "L'elisir d'amore" (Donizetti) (La Scala, Milan, Recordings).

12.31 p.m.—Brenders Dance Band; at 1.0—News; Shipping.

1.30—2.0—Song Records.

4.55—Announcements.

5.0—The Flemish Quartet. Quartet (Schrey). Quartet (Smit-Sibinga). Quartet in D (Mozart).

ductor: Hofmann. Part I:
Haydn Music. Part II: Three
Famous Waltzes.
6.0—Weather; Records.
6.30—For Children; Records.
7.0—Time; Markets; Sports.
7.10—Psychology and Crime.
7.35—Records.
7.45—News.
7.55—"Freiberge-Juraland"—Folk
Programme.

Programme.

9.45 — Wandsbecker Liederbuch (Schoeck). 10.25-10.30—Announcements.

6.0—New Records.
6.45—The Royal Flemish Opera Season, 1938-1939 — Interview with M. Sterkens.
7.0—Brenders Dance Band.
7.30—I.N.R. Review.
8.0—Light Orchestral. Conductor: Walpot.
8.45—'Paris dances the Can-Can''—Radio Play (René Renquin and F. Hall).
9.25—Light Orchestral (contd.).
10.0—News.
10.10-11.0 — Records, Spanish Caprice (Rimsky-Korsakov) by the Lamoureux Orchestra. Conductor: Albert Wolff. Suite, Façade (Walton). Gli Uccelli (Respighi) by the Brussels Conservatoire Orchestra. Conductor: Defauw.

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 Notes; Records.
7.20—Talk.

7.20—Talk.
7.35—Sibiceano (Pfte. Jazz).
8.5—Talk.
8.25—"Lucia di Lammermoor' (Donizetti) (Recorded); at 9.5
9.15—News; and at 9.50-10.0—
Sports Notes.
10.45—News (French, German).

BUDAPEST
546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.50 p.m.—Station Orchestra; at
12.30—News.
1.39—Lajos Kiss-Cigány Band.
2.35—News.
4.15—For Schools.
4.45—News.
5.0—Talk : Air Defence.
5.25—István Haydu ('Cello).
6.0—Sports Reports.
6.10—Records.
7.0—Talk.

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—See Hamburg.
2.0 p.m.—News; Records.
2.30—See Munich.
6.0—Records: Modern Marches.
6.30—Reading (Ahlers).
6.50—Programmes; Markets.
7.0 (from Gleiwitz)—"Farewell to Summer"—Sequence (Hayduk) with the Station Orchestra and Dramatic Troupe.
8.0—See Munich.
9.30—Classical Records.
10.0—News; Interlude.
10.30—Serenade—Station Orchestra,
Conductor: Günther; Elisabeth
Sprung (Soprano).
12.0 n't.-3.0 a.m. (Saturday)—
See Königsberg.

BRNO

5.25—István Haydu ('Cello).
6.0—Sports Reports.
6.10—Records.
7.0—Talk.
7.30—János Christophides and Konstantin Liontas (Greek Songs).
8.15—Foreign Affairs,
8.30—Budapest Concert Orchestra.
Conductor: Fridl. Overture,
"Rienzi" (Wagner). Hungarian
Rhapsody (Siklos). Caucasian
Sketches (Ippolitov - Ivanov).
'Ballet Scenes (Nagy). Waltz,
Mein Lebenslauf ist Lieb' und
Lust (Strauss).
9.40—News.
10.5—Lakatos Cigány Band, from
the Ketter Restaurant.
11.0—News in English and French.
11.10—Géza Miletin Jazz Trio
from the Hotel Bellevue.
12.5 a.m. (Saturday)—News.

COLOGNE

658 kc/s (455.9 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
12.0 noon—Dances—Station Orchestra. Conductor: Breuer.
2.0 p.m.—News; Records.
2.30—See Munich.
6.04—Grünkorn (Recorder), Hildebrandt (Pfte. and Harpsichord).
6.30 — Street Singers and Musicians from a Dozen Villages.
7.0—Operetta Records.
7.45-9.30 — Programme from Munich.

7.45-9.30 — Programme from Munich.
9.30—Erich Rummel Trio. Scherzo (Gade). Pfte.: Waltz (Chopin). Minuet (Bizet). Violin: (a) Arva-Walzer (Juon), (b) Hejre Kati (Hubay). Dance (Grieg). 'Cello: Le tambourin (Leclair). Spanish Dance (Arbos).
10.0—News; Records.
10.30—See Leipzig.
12.0 m't.-3.0 a.m. (Saturday) — See Königsberg.

DEUTSCHLANDSENDER

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—Jager Band and Records,
3.0—Weather; Markets; Exchange.
3.15 — Reineke Songs — Emmi Goedel-Dreising Children's Choir.

3.35—Reading; Programme Notes.
4.0—Dobrindt Band; Violin.

5.0—Pfte. Sonata in B flat (Schubert) by Rosl Schmid.

5.30—Franz, Jensen and Wolf Songs by Lilly Neitzer (Contralto).

6.0—For Hitler Youth.

6.38—Old Instruments—Programme by Joachim Altemark.

7.0—Music from the East Mark—Berlin Station Orchestra. Conductor: Heinrich Steiner (Recorded).

8.0-10.20—See Munich.

10.20—Heitmann (Schnitger Organ)

corded).
8.0-10.20—See Munich.
10.20—Heitmann (Schnitger Organ)
—from the Eosander Chapel,
Charlottenburg Castle (Recorded). Prelude in D minor
(Pachelbel). Prelude and Fugue
in E (Buxtehude). Fantasia and
Fugue in G minor (Bach).

11.0—Vienna Symphony Orchestra,
Conductor: Konrath (Recorded).
Overture, "Preciosa" (Weber),
Ballet, "Paris and Helen"
(Gluck), Suite, "Donna Diana"
(von Reznicek), Lyric Suite
(Grieg), Second Hungarian Rhapsody (Liszt), Wiener JubelOuverture (Suppé), Charakteristischer Marsch (Schubert - Riedinger), Perlen der Liebe (Strauss),
Lyrische Tanzmusik (Siegl),
Overture, "Der Lustige Krieg"
(Strauss),
12.45 a.m. (Saturday)—Records,
12.55—Time Signals,
1.6-2.0—Concert from 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—See Saarbrücken,
2.0 p.m.—Time; News.
2.30—See Munich.
6.0—Opera Records.
7.15—Old and New Dance Music
—Schütz Band.
8.0—See Munich,
9.30—Concert on Records.
10.0—Time; News.
10.30—See Leipzig.
12.0 m't.—Station Choir and Orchestra Conductor: Frickhoefler.
Hochn (Pfte.), Coba Wackers (Soprano), Sabel (Tenor) (Recorded), Overture, "Prometheus" (Beethoven), Fantasia for Pfte., Choir and Orchestra (Beethoven), Huldigungsmarsch (Wagner), Five Songs for Orchestra (Stephan).
Pfte. Concerto in B flat minor (Tchaikovsky), Three Songs (R. Strauss), Don Juan (R. Strauss).
2.0-3.0 a.m. (Saturday)—Serenade from Königsberg.

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 and Fäcknitz (Baritone).

17ansmits at intervals from 3.49 a.m.
12.0 non—Bremen Stadtmusikanten and Fäcknitz (Baritone).
2.0 p.m.—News.
2.15—Light Music.
3.0—Shipping; Markets.
3.25 — Beethoven Records. Pfte.
Concerto in B flat, by Elly Ney and the Berlin Provincial Orchestra. Conductor: Zaun.
Egmont Overture.
4.0—Programme from Munich.
5.30—Johann Strauss Records.
6.0—For Children.
6.10—Hoffmann (Violin).
6.45—Weather; Shipping.
7.0—Station Orchestra. Conductor: Secker. Overture, "The Black Domino" (Auber). Intermezzo (Granville Bantock). Lyric Suite (Grieg). Dance of the Nymphs and Satyrs (G. Schumann). Selection, "Tiefland" (d'Albert). Waltz, Wiener Blut (Strauss). Overture, "The Acc of Hearts" (Künneke).
8.0—See Munich.
9.30—Handel, Weber and Verdi Opera Records.
10.0—News.
10.30—See Leipzig.
12.0 m"t-3.0 a.m. (Saturday)—See Königsberg.

HILVERSUM (No. 1)
160 kc/s (1,875 m.); 10 kW.
until 5.40 p.m.; 150 kW from
5.40 p.m.
7.40-9.40 a.m.—VARA Programme:

3.40 p.m. - VARA Programme: Records. 9.40 - VPRO Service. 10.0-11.40 - VARA Programme. 10.0-Records. 10.40 - Recitation. 11.0-Steyn (Organ). 11.40 a.m.-3.40 p.m. - AVRO Programme. 11.40 - Time; Records. 12.10 - Palla (Organ), Nina Dolce (Violin), van der Horst ('Cello), Scholte (Songs), Kuyper (Clarinet, Saxophone), van Oest (Pfte.) and van Cappelle (Accordion).

inet, Saxophone), van Oest (Pfte.) and van Cappelle (Accordion).

1.40—Riek van Veen (Contralto) and Griesen (Pfte.).

2.30—Records of the Concertgebouw Orchestra.

3.0—The Dutch Royal Anniversary: Conferring of an Honorary Degree on H.M. Queen Wilhelmina by Amsterdam University.

3.40—7.10—VARA Programme.

3.40—Fantasia Ensemble; Records.

4.45—For Children.

5.10—Jong (Organ).

6.10—Ligrary Talk.

6.30—Records; Talk.

7.0—Press Review.

7.10—8.40—VPRO Programme.

7.10—Church Notes; Talk.

7.40—Olly Folge Fonden (Violin) and Flipse (Pfte.).

8.10—Talk by Prof. Lindeboom.

8.40—VARA Orchestra. Conduc-

tor: de Groot, Overture, "Die Felsenmühle" (Reissiger), From the Minuet to the Waltz (Geisler), Kleine Wiener Musik (Pachernegg), Fantasia on "Schenkt man sich Rosen in Tirol" (Zeller-Schmalstich), Klingende Miniaturen (Noack), Sempre avanti (Fucik), 9.25—Recitations, 9.40—Esmeralda Septet, 10.10—Press Review, 10.20—VPRO Religious Talk, 10.40—11.40—VARA Programme, 10.40—Records,

10.40—Records, 11.10-11.40—Jazz Records.

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 5.40 p.m.; 60 kW from
5.40 p.m. Also on Jaarsveld, 722
kc/s (415.4 m.); 17 kW.

ICRV Programme.

tation.
7.55—Records; at 9.10—Greetings.
10.10—Service; Records.
10.55—Manny Lightart (Soprano).
Records in the interval.
11.40—Police Messages; Records.
12.10 p.m.—"All Round" Sextet.

Records in the interval.

11.40—Police Messages; Records.

12.10 p.m.—"All Round" Sextet.
Records in the interval.

1.40—Records.

2.10—The Dutch Royal Anniversary; Conferring of an Honorary
Degree on H.M. Queen Wilhelmina by Amsterdam University.

2.55—v. d. Horst Ensemble. Canzonetta (Friml). Poème (Fibich).
Hollandse molen (Heykens). Romance (Svendsen). Scènes montagnardes (Diff). Torna a Surriento (de Curtis).

3.25—The Dutch Royal Anniversary; Youth's Homage to H.M. Queen Wilhelmina, from the Olympic Stadium, Amsterdam.

5.10—Gray (Organ).

6.10—For Gardeners.

6.40—Police Messages and Church Notes.

6.10—For Gardeners.
6.40—Police Messages and Church
Notes.
6.55—Literary Programme.
7.25—Report.
7.40—News; S O S Messages.
7.55—Gala Concert for the Dutch
Royal Anniversary. Utrecht
Municipal Orchestra, the "Toonkunst" Choir, To van der Sluys
(Soprano). Roos Boelsma (Contralito). Schipper (Tenor), Bogtman (Bass). Conductor: Mengelberg, Suite (Pezel). Overture to
the Suite in D (Bach). Te Deum
Laudamus (Purcell).
8.50—Talk by Prof. Gerretson.
9.20—Gala Concert (contd.). Te
Deum Laudamus (Diepenbrock).
9.55—Press Review.
10.0—Lafosse (Pfre.). Rêves d'une
jeune fille (Behr). Elfentanz
(Grieg). Folk Song (Grieg). Records. Invitation to the Dance
(Weber).

(Weber).
10.25—Sports Notes:
10.40—Lafosse (Pftc.), Humoresque
(Gade). Novelette (Gade).
Waldesrauschen (Braungard).

11.0—Records. 11.30-11.40—Bible Reading.

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. 17.15 a.m.—The Law Society's
Third Centenary Celebrations
from the University Hall.
Students' Choral Society;
Address; Greetings.
12.0 noon-2.0 p.m.—Wivex Or-

12.0 noon-2.0 p.m.—wivex Orchestra.
2.30 — Talk for Women: The
American Housewife.
3.0—Julian Orchestra.
4.30—For Children; Notes.
5.0—Talk: The Press.
5.25—Weather; Exchange; Mar-

5.0—Talk: The Press.
5.25—Weather; Exchange; Markets.
5.50—Songs. "The Cinema Star"
(Gilbert) by Kay Abrahamsen.
6.15—Talk: Bird Migration.
6.35—German Lessons.
7.0—Time; News.
7.30—Talk: Bishop Grundtvig.
8.0—Songs. "The Manservant"
(Stentoft) by Osvald Helmuth.
8.10—Scandinavian Music Festival from the Oddfellows Palace—Denmark. Radio Symphony Orchestra. Conductors: Hoeberg, Grøndahl, and Tuxen. Holger Gilbert-lespersen (Flute), Edith Oldrup Pedersen (Songs.) Part I. Overture, The (Børresen). Flute Concertino (Tarp). Symphony in C minor (Gram). Part II. Un cantus firmus (Hamerik). Slaraffenland (Riisager). "Five Swans," for Soloists, Choir and Orchestra (Haffding).
10.0—News.

10.20—Bertel Gripenberg Poems with Introductory Talk. 10.50 p.m.-12.30 a.m. (Saturday) —Ewans' 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—See Saarbrücken,
2.0 p.m.—News; Talk; Variety.
2.55-3.0—Exchange,
3.30— "Ancestors"— Sequence (Weschollek).
4.0—Programme from Munich.
5.30—Records: Light Music.
6.10—A Modern Dictionary.
6.20—Station Choir. Conductor:
Firchow. Hartung (Organ). Five
Songs to Goethe Text (Jochum).
Choral Variations for Organ (Höller).

(Höller).

One of the control of the

6.50 — Announcements; Topics Reports.
7.30—Hitler Youth Reports.
8.0—See Munich.
9.30—Records: Marches.
10.0—News; Sports Report.
10.20—Talk: Gliding.
10.40—Station Dance Band.
12.0 m't.-3.0 a.m. (Saturday)-Screnade—Station Orchestra ar Dance Band.

LEIPZIG

T85 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (235.5 m.). Transmits at intervals from 5.50 a.m. 12.0 noon—See Saarbrücken. 2.0 p.m.—News; Records. 2.30—See Munich. 6.0—Talk; Saxony and German Culture

2.50—See Mullich.
6.0—Talk: Saxony and German Culture.
6.20—Records.
7.0—Marches and Waltzes—Station Choir and Orchestra. Conductor: Kretzschmar.
7.40—Evening Review.
8.0—See Munich.
9.30—Military Band. Conductor: Bammel.
10.9—News; Sports Notes.
10.30—Dance and Light Music—Fricke Band, Else Wolff (Soprano), Brendel (Xylophone), Thomas Steiner (Songs to the Harp).

Harp). 12.0 m'4.-3.0 a.m. (Saturday)—See Königsberg.

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.—News; Weather.
8.0—Dialect Programme,
8.30—Symphony Concert from
Vichy After the Programme,
News

MEI NIK

MELNIK

1.113 kc/s (269.5 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
Programme in German.
8.0 p.m.—Station Orchestra and
Choir.
9.30 — Prague String Quartet.
String Quartet in D minor
(Smetana), String Quartet in D
(Mozart).

(Smetana), Johns (Mozart).

10.15—News; Sports Notes.

10.30-11.0—Contemporary Music—Chamber Orchestra, Conductor: Behr. Olga Forrai (Soprano).

"Serenades"—Cantata for Soprano, Oboe, Viola and 'Cello (Hindemith). The Chinese Flute

MONTE CENERI
1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 12.0 noon.
7.0 p.m.—Records.
7.50—News; Records.
8.20—Talk: Great Campaigns of the Swiss Armies.
8.40-10.15—See Sottens.

MOSCOW

172 kc/s (1,744 m.); 500 kW and
300 kc/s (1,000 m.); 100 kW.

Transmits at intervals from 4.0 p.m.
6.0 p.m.—Concert or Opera (Records); at 6.30—Politics.
9.30—News; Kremlin Chimes,
10.0 (on 1,000 m. only)—Concert.
10.0 p.m.-1.0 a.m. (Saturday);
1,744 m. only.
10.0—Talks (English, German).
12.0 m°t.—Spanish Programme.

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

Relayed by Numberg, 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; Topical.
1.15—Station Orchestra.
2.0—News; Records.
2.30 (from Nürnberg). The Reich Party Congress—Festival Concert, with Reports on the Nazi Light Athletics Contests.

6.0—Station Orchestra, Conductor: Winter. Elisabeth Waldenau (Contralto), Hamer (Baritone) Donderer (Trumpet). Festival March (Lürman). Song, "Der Prinz von Homburg" (Graener). Prelude, "Der Corregidor" (Wolf). Weylas Gesang (Wolf). Trumpet Concerto (Haydn). Weckruf und Klage (Pfitzner). Scherzo (Pfitzner). Sixth Symphony—the Pastoral (Beethoven). Overture, "Oberon" (Weber). In the interval, German Folk-Songs by the Cologne Male Voice Choir. Conductor: Papst (Recorded). (Recorded).

8.0 (from Nürnberg)—The Reich Party Congress—Festival Concert, with Reports on the Parade of Political Leaders on the Zeppelin-

9.30-Records.

9.30—Records. 10.0—Time; News; Interlude. 10.30—See Leipzig. 12.0 m⁴t.-3.0 a.m. (Saturday)—See Königsberg.

NAPLES GROUP

Naples (No. 1), 1,104 ke/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

Transmits at intervals from 7.45 a.m.

7.6 p.m.—Light Music. 7.20—Guido Monaco Choir of

7.20—Guido Monaco Choir of Prato.
8.0—Time; News.
8.30—Song Potpourri by the Radio Orchestra.
9.15—"Una storia di Gatti"—Sketch (Metz).
9.30—Concert.
10.30 (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.—Café Concert.
5.45—Talk.

5.45—Talk.
6.5—Amalic Christie (Pfte.). Impromptu (Schubert). Theme with Variations (Schubert). Kinderspiele (Brustad).
6.25—Shakespeare Songs (Castelnuovo-Tedesco).
6.45—News.
7.15—Concert.

7.15—Concert.
7.45—Report.
8.10—Scandinavian Music Festival
(for details, see Kalundborg).
9.10—A Play.
9.40—News; Topical Talk.
10.15—Variety Programme.

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m. Transmits at intervals from 6.30 a.m.
3.30 p.m.—Dramatic Programme by
the Art et Liberté Players: (a)
"L'eau qui dort"—Three-Act
Play (Roger-Marx), (b) "Beethoven et le Jazz"—One-Act Fantasy (Delamare).
5.0—Concert from Bordeaux-Lafay-

ette. 5.45—Concert from Lyons (PTT);

cete.

5.45—Concert from Lyons (PTT);
Talks.

7.0—Mme Darvys (Songs), Mme
Haas-Hamburger (Pfte.).

7.30—News; Weather; Time.

8.0—Lucy Rosen (Songs), MaillardVerger (Pfte.).

8.30—Literary and Musical Programme. Part I: Great Musical
and Literary Epochs, presented by
René Dumesnil, with Paul Castan.
Conductor: Raugel. "La gageure
imprévue"—Play (Sedaine, 1768).
Part II: "La quinzaine sonore"
Radio Fantasy (P. and R. Constantin-Brive).

10.30—Records.

11.0-11.15—News; Weather.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 6.28 a.m. Transmits at intervals from 6.28 6.0 p.m.—News; Exchange. 6.10—Quartet (Lekeu), by Lancker Quartet (Records). 6.35—Music; Talk. 6.58—Racing; Sports Notes. 7.10—Amusement Guide. 7.12—Weekly Review. 7.17—Waltz Records. 7.45—Records: Fauré Songs. 8.0—Tonical 8.0—Topical.
8.10—Adison Jazz Band.
8.25—Fifteen Minutes' Recreation presented by Robert Desnos.
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.
2.30 p.m.—" La farce du Cuvier"
(Dupont).

FRIDAY (September

4.0—Variety Concert with Cabaret from the Radio Exhibition,
5.0—Derveaux Orchestra. Overture,
"Fra Diavolo" (Auber). Lyric Suite (Grieg). Simplicité (Gabriel-Marie). Selection, "Marietta" (O. Straus). Descriptive Picce (Turina). Ballet, "Lakmé" (Delibes). La Féria (Lacôme).
6.0—Educational.
6.30—Renée Sénac (Songs).
6.45—Jeanne-Marie Darré (Pfte.) (Schubert - Liszt, Mendelssohn, Thiriet, Prokofiev).
7.0—Radio Journal; News.
8.0—Talk: Millöcker.
8.30 (also Marseilles (PTT) and Alpes-Grenoble)—French Music—National Orchestra. Conductor: Bigot. Overture, Patrie (Bizet). Symphony (Franck). Pfte. Concerto (Saint-Saëns). Shylock (Fauré). España (Chabrier).
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.
6.30—Time; News; Records.
6.50—Gym and Records.
8.30-9.7—Time; News; Records.
9.45—Programmes: Records.
10.45—Reading; Records.
11.45—Markets; Water Level.
12.0 noon—Economics; Records.
1.0 p.m.—Time; News.
1.30—Charles Paul (Songs).
2.0—Programmes; Talks.
2.30—Exchange; Records.
3.15—Ancedotes; Talk.
3.45—Exchange; Talk.
4.15—Jane Andral (Songs).
4.30—Reading; Records.
4.30—Reading; Records.
4.50—Markets; Exchange.
5.0—Loewenguth Quartet: Marcelle Gerar (Songs); Jean Hubeau (Pfte.).
6.0—Classical Records.
6.30—Racing; Talk; Reading.
6.58—Programme Notes.
7.0—Jamet (Harp). Variations on a Minor Theme (Hansen). La fille aux cheveux de lin (Debussy). Impromptu (Fauré).
7.15—Records; Reading; Talk,
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.8—Foreign Affairs.
8.30—"Le Prix Martin"—Three-Act Play (Labiche-Augier), with Introductory Talk; at 9.30 (approx.)—News; Press Review; For Ex-Servicemen.
10.30—Records: Light Music.
10.45—Time; News; Weather.
11.0—Concert. Conductor: Rhené-Baton. Cathelat (Songs). Symphony (Bizet). Voice and Orchestra: Poème de l'amour et de la mer (Chausson). Overture, "Cyrano de Bergerac" (Wagenaar).
12.30 a.m. (Saturday) — Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 6.0 a.m. 6.20 p.m.—Operetta Music—FOC Orchestra. Conductor: Pekárek. Selection, "Eva" (Lehár). Over-ture, "The Vintager's Bride" (Nedbal). Excerpts, "Firefly"

(Primi).
7.0—News; Topical; Record.
7.30—Talk: Masaryk.
8.0—Prague Teachers' Choir, Conductor: Dolezil (Recorded). ductor: Dolezil (Recorded). 25 — String Quartet in B (Mechura) by the Ondricek

One-Act Play with Music by Dvořák

Dvořák.

9.10 — Symphony in B flat
(Dvořák) by the Station Orchestra, Conductor: Jeremiás.
10.0—Time; News; Sports Notes.
10.15—Horse Racing Report.
10.20—See Brno.
10.30-11.0—Bartsch ('Cello). Sonata
(Galeotti - Rogister). Toccata
(Frescobaldi - Cassado). Elegiac
Song (Fl. Schmitt). Scherzo
(Pierné). Pièce en forme de
habañera (Ravel). Nocturne
(Fauré). Papillon (Fauré).

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—A. L. Molloy's Ceilidhe Trio.
5.50—Home Dressmaking, No. 4.
6.5—Records: Trio (Beethoven) by
Cortot (Pftc.). Thibaud (Violin),
Pau Casals ('Cello).
6.45—News.

7.0—Tom Browne and Herbert Leeming (Flute Duets). 7.15—Máire Ní Ghuairim—Ciarán Naomhtha. 7.30—Irish Radio Orchestra. Con-ductor: Lieut. D. P. O'Hara; Nan Shaw (Contralto). 8.30—Farming Discussion between Mr. Shortt and T. G. Rice: Beet Growing.

Growing.
8.50—Philip Dore (Organ), from
Mullingar Cathedral.
9.20—Nuacht an Lae—A Gaelic
News Broadcast.
9.30—Variety.
10.30—News; National Anthem.

RADIO-MÉDITERRANÉE

1,276 kc/s (235.1 m.); 27 kW. Transmits at intervals from I2.15 p.m.

7.0 p.m.—Dance Music.
7.15—Talk.
7.30—Sports Notes.
7.45—Request Programme.

8.0—Talk.
8.10—News; Exchange.
8.15—Excerpts, "Yana" (Richepin-Christine).
8.30—Variety.
9.5—Weather Report.
9.10—Variety.
10.0—Radio Journal.
10.15—Programme from the Sporting Club, Monte Carlo.

RADIO-NORMANDIE

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.
6,25 a.m.— Nos vieux pommiers (Dior).
6,30—Press Review; Music.
7.0— Swing Something in the Morning—Teddy Foster and Betty Kent (Songs).
7.15—Music; Weather.
7.30—Time; Bill on Parade.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time; Browning and Start.
8.30—News.
8.40—Your Message from the Stars.
8.45—Smiles, Songs, and Stories.
9.0—Time; Round the World.
9.15—The Songs we used to sing.
9.30—Radio Favourites.
9.45—Popular Music and Talk.
10.0—Time; A Refreshing Programme.
10.15—Dream Waltzes.

10.0—Time; A Refreshing Flogramme.
10.15—Dream Waltzes.
10.30—Songs and Music from Stage and Screen.
10.45—Light Music.
11.0—Time; Donald Peers, Cavalier of Song, with Arthur Young.
11.15—Something for Everybody.
11.30—Orchestra.
12.0 noon—Concert.
12.20 p.m.—News.
12.40—Talk by M. de Chappedelaine.

12.40—Talk by M. de Chappedelaine.
1.0—Concert.
2.0—Miniature Matinée.
2.30—The Songs we know them by.
2.45—Hill-Billy Songs.
3.0—Time; Radio-Normandie Concert Hall.
3.15—Normandie Playbill—Announcements; Music.
3.30—The Musical Mirror.
3.45—The Pleasant Quarter-Hour.
4.0—Time; What's in a Name—Frank.

3.30—The Musical Mirror.
3.45—The Pleasant Quarter-Hour.
4.0—Time; What's in a Name—Frank.
4.15—What's On.
4.30—Russian Music.
4.45—The Musical Magazine; at 5.0—Time.
5.15—For Boys and Girls.
5.30—Request Music.
6.0—Children's Corner.
6.45—Talk; News; Racing.
7.0—Light Music.
7.30—News; Talk.
7.50—Records of Albert Préjean.
8.0—Variety.
8.45—"The Pearl Fishers" (Bizet) from the Casino, Fécamp.
11.0—Café Concert.
12.0 m't.—Melody at Midnight, Guest Artist: Michael Carr.
12.30 a.m. (Saturday) — Time; Swing Something in the Morning.
12.45-2.0—Time; Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE 1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m. 8.0 p.m.-News; Records. 8.15-Talk.

8.15—Talk.

8.36—Concert. Conductor: Bilewski. Overture, "A Midsummer Night's Dream" (Mendelssohn). Dolly (Fauré). Songs. La flûte de Pan (Mouguet). Danse macabre (Saint-Saëns). Songs. Un dimanche basque (Laparra). Danse of the Sylphs, "The Damnation of Faust" (Berlioz). Danse persane (Guiraud). After the Programme, News and Concert from Paris.

FRIDAY (September

REYKJAVIK

REYKJAVIK

208 kc/s (1,442 m.); 100 kW.

Transmits at intervals from 12.0 noon
9.10 p.m. — Weather (Icelandic,
German, English).
9.20—Scandinavian Songs.
9.40—News; Foreign Affairs.
10.15—Reading.
10.40—Sonatas. 'Cello Sonata in G
(Bach). Sonata in C (Mozart).
Sonata in B minor (Liszt).
11.40—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—Dance Music.
5.50—Aviation; Weather.
7.0-7.20—Talk in Dutch.
7.30—Chamber Orchestra.
8.0—Time; News; Music.
8.30 (Palermo and Naples (No. 2) only)—Light Music.
9.0—Symphony Concert from the Accademia Chigiana, Siena Conductor: Gelbrun and Winzheimer. Lucia Artopoulus (Violin); Guglielmo La Volpe ('Cello); Liliana Vallazza (Pfte.); Antonietta Eremie (Soprano). Overture, "Figaro" (Mozart). Concerto for 'Cello and Orchestra (Haydn). Arias, "Lucia di Lammermoor" (Donizetti) and "Rigoletto" (Verdi) Pfte Con-Antonietta Eremie (Soprano).
Overture, "Figaro" (Mozart).
Concerto for 'Cello and Orchestra (Haydn). Arias, "Lucia di Lammermoor" (Donizetti) and "Rigoletto" (Verdi). Pfte. Concerto in C minor (Beethoven). Violin and Orchestra: Tzigane (Ravel). In the interval, 'Talk, 11.0—News. 11.15-11.55—Dance Music.

SAARBRÜCKEN

1,249 kc/s (240.2 m.); 17 kW. Relayed by Kaiserslautem, 1,429 kc/s (209.9 m.). Transmits at intervals from 6.0 a.m. 12.0 noon—Station Orchestra. 2.0 p.m.—News; Records. 2.30—See Munich. 6.0—See Berlin. 6.40—Holiday Hints. 7.0—"Dorf an der Grenze"—Play after Rothacker (Rinke).

7.30—Topical Talks; News.
8.0—See Munich.
9.30—Wagner Records. Overture,
Rienzi. Aria and Overture, "The
Mastersingers."
10.0—Time; News.
10.15—The Scourge of Mankind.
10.30—See Leipzig.
12.0 nr't.-3.0 a.m. (Saturday)—See
Königsberg.

SOTTENS

SOTTENS

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s
(748 m.).

12.30 p.m.—News; Records.
1.0—Engel Band.
1.30—Records,
5.0-6.0—Sec Beromünster.
6.0—Records; Talk; Sports.
6.40—For Alpinists.
6.50—Parliamentary Notes.
7.5—Football Notes.
7.5—Hiero-Magazine.
7.50—News.
8.0—Light Music—Radio-Geneva Ensemble. Conductor: Pasche.
8.20—Weekly Financial Review.
8.40—Light Music (contd.).
9.0—"Un voyage à Biarritz"—Play (Sarment) by the Chariot Company. Company

9.50—League of Nations Report. 10.10-11.0—Records.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 7.45 a.m.
5.5 p.m.—Folk Songs by Lisa
Kerstad.
5.20—Talk: Infantile Paralysis.
5.45-6.45—Septiman Orchestra.
7.0—News; Weather; Topical.
7.30—Election Address by the
Prime Minister, Per AlbinHansson.
8.10—Anderberg and Eberson
(Pftes.) from Malmö. Andante
and Allegro molto from the Sonata in D (Mozart). Variations
on the Volga Boat Song (Knorr).
March (Anderberg).
8.50—Talk and Reading: Eric
Linklater.
9.15—Part II, Scandinavian Music
Festival (for details see 8.10,
Kalundborg).

10.0-News; Weather. 10.15-11.0-Excerpts, "Boccaccio" (Suppé).

STRASBOURG

STRASBOURG

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

Transmits at intervals from 6.30 a.m.

2.30 p.m.—"La Farce du Cuvier"
(Dupont).

4.0—French Music—Station Orchestra. Conductor: Bour.
Overture, "Orpheus in the Underworld" (Offenbach). Ballet, "Isoline" (Messager).
Entr'acte, "Mignon" (Thomas).
Waltz, Barcarolle (Waldteufel).
Au bon vieux temps (Mouton).

5.0—Concert from Bordeaux-Lafayette.

Au bon vieux temps (Mouton).
5.0—Concert from Bordeaux-Lafayette.
5.45—History Talk in German.
6.0—Economic and Social Notes.
6.30—Records: Hawaiian Music.
6.45—Report: The Fourth Walking Tour of Alsace—the Arrival at Sarrebourg.
7.0—News.
7.30—Concert from Limoges (PTT).
8.0—News (German, French).
8.30—Station Orchestra. Conductor: de Villers. Overture and Ballet, "Les Saltimbanques" (Ganne). Musiques foraines (Fl. Schmitt).
9.15—"I Pagliacci" (Leoncavallo). Cast: MM. Le Breton, Gillig, Hastin, Dahler and Jeanne Wild.
10.30—News (French, German).
11.0—See Paris (Radio-Paris).

STUTTGART

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.45 a.m. 12.0 noon—See Saarbrücken. 2.0-3.0 p.m.—Operetta Records. 1.0—Orchestra; at 5.0-5.15—Inter-

4.0—Orchestra; at 5.0-5.15—Interlude.
6.0—Records; Topical Talks.
7.0—Orchestra.
8.10—" Through Woods and Meadows"—September Almanac.
9.15—Ottmar Gerster Music, Minholz Quartet, Emma Mayer (Contralto) and Traute Zarges (Pfte.).
Pfte.: Divertimento, Five Songs.
String Quartet.
10.0—Time; News; Sports.

10.0—Time; News; Sports.
10.30—Light and Dance Music.
12.0 m²t.—See Frankfurt.
2.0-3.0 a.m. (Saturday)—Serenade from Königsberg.

TOULOUSE (Radio-

Toulouse)
913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m. Transmits at intervals from 8.0 a.m., 6.0 p.m.—News. 6.15—Musical Comedy Music. 6.40—Opera Music. Excerpts, "Cavalleria rusticana" (Mascagni), "Tales of Hoffmann" (Offenbach), "Boris Godunov" (Musorgsky), "The Prophet" (Meyerbeer), 6.55—News; Sports. 7.0—Songs of Marseilles. 7.15—Light Music. 8.45—Orchestra; Talk. 9.45—Orchestra; Talk. 9.15—Light Music. 9.30—Dance Songs. 10.65—Musette Refrains; Waltzes. 11.15—Light Music. 11.55—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 p.m.—News. 5.15—Luigi Gasparini ('Cello). 5.50—Aviation; Weather. 7.19 (Rome (No. 2) only)—News in

7.19 (Rome (No. 2) only)—News in English.
7.30—See Rome Group.
8.9—Time; News.
8.30—Cetra Orchestra; at 8.36 (Milan (No. 1), Rome (No. 2) and Bolzano)—News and Italian Lesson in German.
9.9—"Fanfan la Tulipe" (Varney). Conductor: Gallino, In the intervals, Talk and Announcements.

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.
12.0 noon—See Saarbrücken.
2.0 p.m.—News.
2.10—Wagner Opera Music (Bayreuth Festival Recordings).
2.30—See Munich.
5.30—Records. Wiener Rhapsodie (Fl. Schmitt). Scherzo in Diminor (Brückner). Ländler (Schubert). March in D (Mozart).

5.50—Talk: Karl Peters.
6.0—Songs and Music by Hitler Youth.
6.30—Topical Report.
7.0—Station Orchestra. Conductor: Schönherr. March, Kameradentreue (Bähre). Overture, "Der Schatzmeister" (Ziehrer). Bäuerliche Festmusik (Jentsch). Humoresque (Kick-Kletzky). Steirsche Hochlandsklänge (Rudolf Wagner). Intermezzo, Kleine Freuden (Kriger - Hanschmann). Musikalische Vornamen (Landl). Ländliche Humoreske (Krome). Grenadiers' March (Scherzinger).
8.0—See Munich.
9.30—See Munich.
9.30—Raupenstrauch (Pfte.). Thirty—Two Variations in C minor (Beethoven). Allegro (Schumann). Scherzo in E flat minor (Brahms).
10.0—News.
10.30—See Leipzig.
12.0 m²t.-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.
4.0 p.m. (from Wilno)—Abraham
Operetta Music by the Wilno
Station Orchestra. Conductor:
Szczepanski. Excerpts, "The
Flower of Hawaii," "Viktoria
and her Hussar" and "Ball at
the Savoy."
4.45—Talk.
5.0—Dantee Music from the Radio
Exhibition.
6.0—Talk: Technics.
6.10—Schubert Pfte. Records.
6.45—Literary Review.
7.0—Derwies (Songs). Two Songs
(Rachmaninoff). Three Songs,
"Don Quichotte à Dulcinée"
(Ravel). Songs (Szymanowski).
7.20—Topical Talk.
7.39 — Variety Concert from the
Radio Exhibition. In the interval,
Talks.
8.45—News; Topical Talk.

Radio Exhibition. In the interval, Talks.
8.45—News; Topical Talk.
9.0—Farmers' Letter-box.
9.10—Variety Concert (contd.).
9.50—Sports Notes.
10.0—Station Orchestra. Conductor: Fitelberg. Scheherazade (Rimsky-Korsakov). Excerpts from the Suite, Les nuits d'Egypte (Prokofiev). fiev). 10.55—Press Review. 11.0-11.15—News; Talk in English.

SATURDAY Sept. 10

National

For Time Signals, see Monday.
10.15 a.m. (D)—Service.
10.30 (D)—Weather Forecast.
10.45 — "Country Pleasures:"
Elizabeth MacPherson.
11.0—John Palmer (Pfte.).
11.30—BBC Welsh Orchestra, conducted by Mansel Thomas:
Ceinwen Rowlands (Soprano).
12.30 p.m.—Song and dance records.
1.0—New Hippodrome Orchestra.
2.0—Records.
2.30—H, Robinson Cleaver (Cinema).

-H. Robinson Cleaver (Cinema

.30—H. Robinson Cleaver (Cinema Organ).
.9—Gilbert Stacey's Sextet.
.40—Amateur Cycling.
.9—Hazell's (Aylesbury) Printing Works Band: Constance Stocker (Mezzo-Soprano).
.9—The First News.
.30—Saturday talk on Sport.
.45—Lance Dossor (Pftc.).
.20—Royal Artillery (Mounted) Band.

Band. 8.0—" Money! Money! Money!" 8.0—" Money! Money! Money!"

—play.

8.30—Sing Song, with Rupert
Hazell, Elsie Day, Fred Duprez,
Bertha Willmott, Vine, More, and
Nevard, Turner Layton, The
Vagabond Lover, Bertha Ricardo,
Ernest Butcher, Murgatroyd and
Winterbottom, Charles Smart,
Percival Mackey's Orchestra.

9.40—The Third News.

10.5—Orchestre Raymonde.

10.45—Bedside Anthology of Diaries
and Letters, by John C, Maude.

11.0-12.0—Lew Stone's Band.

London Regional

London Regional
For Time Signals, see Monday.
10.15-10.45 a.m.—National.
10.45—Reginald King's Orchestra.
11.30—Sydney Gustard (Cinema Organ).
12.15 p.m.—Records.
12.45—"Doing a Woman's Work," by a man.
1.0—Sonata Recital.
1.40—Chamber Concert: The English Ensemble.
10.15 a.m.—So.0 p.m.—Regional.
10.15 a.m.—So.0 p.m.—Regional.
10.15 a.m.—So.0 p.m.—Regional.
10.16 a.m.—So.0 p.m.—Regional.
10.17 a.m.—So.0 p.m.—Regional.
10.18 a.m.—So.0 p.m.—Regional.
10.19 a.m.—So.0 p.m.—Regional.

2.45-" Science of Shaving," by

2.49 Section C,
"Scientist."
3.0—BBC Orchestra (Section C),
conducted by Joseph Lewis.

.6—BBC Orchestra (Section C), conducted by Joseph Lewis.
.6—Records.
.40—"The Pleasure of Poetry:" Philip Wayne.
.6—The Children's Hour.
.6—"George Edwardes."
.6—Welbeck Light Quartet.
.20—For Farmers.
.30—The Second News.
.6—Promenade Concert from Queen's Hall, London: Stiles-Allen (Soprano); Keith Falkner (Bass - Baritone); Cyril Smith (Pfte.); BBC Symphony Orchestra, conducted by Sir Henry Wood: Overture, Ruy Blas (Mendelssohn); Recit. and Aria, Ella giammai m'amo—Don Carlos (Verdi); Dance Rapsody, No. 1 (Delius); Pfte. Concerto No. 3, in D minor (Rachmaninoff).
.35—"The Promenade Ticket:" reading.

m D mmor (Rachmannon).

"The Promenade Ticket:"
reading.
9.50—Promenade Concert, Part 2:
Keith Falkner (Bass-Baritone);
BBC Symphony Orchestra, conducted by Sir Henry Wood:
Façade—Second Suite (Walton);
Songs—And yet I love her and
Love is a bable (Parry); Trumpet
Voluntary (Purcell).

10.20—Dance Records.
10.30—Eddie de Lange's Orchestra
from America.
11.0—Lew Stone's Band.
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—Jan Berenska's Orchestra. 6.45—"Sport in the Midlands." 7.0—Regional. 7.20—Midland Announcements. 7.30-12.0—Regional.

7.20—For Northern Farmers.
7.30—Regional.
10.20—Northern Summer Sports
Bulletin.
10.30-12.0—Regional.

10.45 a.m. 6.0 p.m.—National. 6.0—Regional, 7.20—Western Announcements, 7.30—Regional. 9.50—"Sports Special." 10.10-10.30—BBC West of England

Welsh
10.15 a.m.—Welsh Service,
10.30-4.0 p.m.—Regional.
4.0—London-Cardiff Air Race,
4.30—Regional.
5.0—The Children's Hour,
6.0—Powys Paradwys Cymru: J.
Lloyd Thomas,
Lloyd Thomas,
6.15—Ballad Concert: Margaret
Francis (Soprano); Fred Porter
(Tenor). (Tenor). 6.45—" Autumn Sport." 7.0—Welsh News. 7.30—Regional. 9.35—" Around and About." 9.50-12.0—Regional. N. Ireland

N. Ireland
10.15 a.m.-4.0 p.m.—Regional,
4.0—Ulster Amateur Flute Band:
Robena McKay (Mezzo-Soprano),
4.40—Regional,
5.0—The Children's Hour,
6.0—Regional,
7.0—Association Football: Linfield
v. Portadown,
7.10—Records,
7.20—N. Ireland News,
7.30—Regional,
9.50—Northern Ireland Singers,
10.20-12.0—Regional,

Scottish

Scottish

10.15 a.m.-5.0 p.m.—Regional.
5.0—The Children's Hour,
6.0—The First News,
6.15 app.—Piping,
6.30—Scottish Sports News,
6.40—Bon Accord: Variety,
7.20—Scottish Announcements,
7.30—Regional,
9.35—"The Week in Scotland,"
George Rowntree Harvey,
9.50—Regional,
11.0—Scottish Sports News,
11.15-12.0—Regional,

Hours of Transmission in British Summer Time.

BERLIN

BERLIN

841 kc/s (356.7 m.); 100 kW.
6.0 a.m.—Call; Weather; Gym.
6.30—Schneidewind Band; at 7.07.10—News.
8.0—Gym; Records.
8.30—Orchestra from Danzig.
9.30—See Munich.
10.30—10.45—Weather; Markets.
11.30—See Munich.
1.0 p.m.—Records of the Regensburg Cathedral Choirboys.
1.15—See Vienna.
2.0—News; Water Level.
2.15—"A Jolly Week-end"—
Records.
2.30-6.30—See Munich.
6.30—Busch Band, Overture, "Der Schauspieldirektor" (Mozart).
Dynamiden-Walzer (Strauss).
Pusztamärchen (Schulenberg).
Max and Moritz (Boulanger).
My Heart (Pata). Luerma (Schmidt). Three Hungarian
Dances (Köpp). Ballerina (Feld-kötter).
7.15—Records of Furtwängler conducting.
7.45—Evening Echoes.

kötter).
7.15—Records of Furtwängler conducting.
7.45—Evening Echoes.
8.0—News; Announcements.
8.10—"Flowers and Love"—A Melodious Garland. Libiszowski Orchestra, Busch Band, Lotte Luckwald, Hanns Ruzitsca and Felix Schröder. Liebesglut (Heuberger). Moss Rose (Bosc). Volga Song (Lehár). Hand in Hand (Busch). Flower Waltz (Tchaikovsky). Mädel ich bin Dir so gut (Enders). Blumenwunder (Künneke). Weisse Blume (Mateo). I give my Heart, "The Dubarry" (Millöcker-Versichen) "Flowers and Love." Blume (Mateo). I give my Heart,
"The Dubarry" (MillöckerMackeben). "Flowers and Love."
Song Potpourri, with Lotte
Luckwald and Hanns Ruzitsca.
10.0—News; Sports.
10.30—Small Station Orchestra,
Conductor: Willy Steiner; Busch
Band.
2.0-3.0 a.m. (Sunday) — Music
from Breslau.

BEROMÜNSTER

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 12.0 noon—Weather; Records: Symphony Excerpts.

12.29 p.m. - Time; News; Ex-

12.29 p.m. — Time; News; Exchange.
12.40-2.30—From Berne.
12.40—Weather; Light Music.
1.30—The Week's Sound News.
1.45—Berne Mandoline Band.
2.5-2.30—Books.
4.30 (from Berne)—Accordion.
5.0-6.0—See Monte Ceneri.
6.0-7.0—From Berne.
6.0—Weather; An Industrial Worker talks about his Work.
6.10—A Farm Labourer talks about his Work.
6.20—Talk.
6.30—Wind Band Music.
6.55—Time; Markets.
7.0—Zürich Chimes.
7.15-7.55—From Berne.

7.15-7.55-From Berne

7.15—Weekly Parliamentary Review. 7.30—Oskar Adler (Pfte.).

7.45—Weather; News.
7.55—Commentary on the Opening of All Saints Museum in Schaffhausen.

8.20 till Close-From Berne. 8.20—Folklore Programme.
9.5—"Wer ist Trac?"—Burlesque (Garai).
10.20—Dance Records.

10.55-11.0-News.

RRATISLAVA

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 6.0 a.m. 6.0 p.m.—Hungarian Transmission:
"Fábol Vaskarika "Play (Maria
Girsík); Incidental Music by
Varady.

6.45—News in German. 7.0-7.50—See Prague,

7.0-7.50—See Prague,
7.50—Programme for the Seventh Centenary of Trnava, Slovakia.
8.10 — Symphony Concert from Trnava. Bratislava Symphony Orchestra, Conductor: Holoubek; Kubát (Violin); Helena Bartosová (Soprano). Overture, Hermania in the Cave of Venus (Bella), Violin Concerto in E minor (Mendelssohn). Suite, Váh (Moyzes). Soprano Songs (Schneider-Trnavsky). Violin and Orchestra: Burlesque (Suchon). Overture (Holoubek).
9.55-10.15—See Prague,
10.15—News (Hungarian),
10.30-11.30—See Prague.

RREST ATT

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Görlitz, 1,231 kc/s (243.7 m.).
5.0 a.m.—Fierke Quintet.
6.0—Weather; Gym.
6.30 (from Gleiwitz) — Upper Silesian Theatre Orchestra, Conductor: Erich Peter; at 7.0-7.10—News -News. 8.0-8.20-Motto; Weather; For

8.0-8.20—Motto; Weather; For Farmers.
8.30 (from Gleiwitz)—Theatre Orchestra, Conductor: Erich Peter.
8.30-10.30—See Munich.
11.30—See Munich.
11.5—See Vienna.
2.0—News; Exchange; Records.
2.30-6.30—See Munich.
6.30—Classical Records; Programmes.

grammes.

1.0--"(Eastern Germany" — a Sequence: (a) German Colonists in the Middle Ages, (b) Old Music, (c) Songs of Eastern Germany.

8.0-News.

8.10-Station Orchestras: Conductors: Weisshaupt and Topitz. Mai (Oboe). Rau (Saxophone), Krams (Violin). Overture, "The Nuremberg Doll" (Adam). Selection, "Carmen" (Bizet). Oboe and Orchestra: Pastorale (Schlemm). Momento capriccioso tion, "Carmen" (Bizet), Oboe and Orchestra: Pastorale (Schlemm), Momento capriccioso (Weber), Ständchen (Strauss), Saxophone: Liebesaugen (Klein), Das Unikum (Murzilli), Eine lustige Ouvertüre (Sczuka), Romance in D minor (Strauss), Waltz, Marienklänge (Strauss), Hungarián Fantasia (Lehár), Eastern Dance (Mascagni), Campanella (Handel), Overture, "The Secret Marriage" (Cimarosa), Suite. "Fidelio" (Beethoven) 10.0—News: Interlude. 10.30—See Berlin. 12.0 m²t.-3.0 a.m. (Sunday)—Serenade. Station Orchestras, Conductors: Rischka and Topitz, Fierke Quintet and Giannino Carpi (Violin).

3.30—Records.
4.0—Music-Hall.
4.55 — Announcements; Health Talk.
5.15—Salon Orchestra. Conductor:

Féron.

5.30—Talk.
5.40 — Salon Orchestra (contd.).
Féron (Violin).
6.0—Talk: The Mons Polytechnic.
6.15 — Records: Folic d'Espagne
(Ponce).
6.30—Francisco Costa (Violin).
Soneti de la Rosada (Toldrá). Les
Birbadores (Toldrá). Montañesa
(Nin). Tonada Murciana (Nin)
Nana (Falla). Divertimento (Pittaluga). Danza de la Gitana
(Haifter).
6.50—Records: Segovia (Guitar).

(Halfter).
6.50—Records: Segovia (Guitar).
7.0—Reviews: (a) Sports, (b)
Hygiene; Interview.
7.15—Records: Popular Songs.

15—Records: Popular Gongo.
30—News.

0—Belgian Contemporary Music
—I.N.R. Symphony Orchestra.

Conductor: Dejoncker, Zélima
de Herve (Pfte.). Musical Impression on "Jean Christophe"
(Mawet). Pfte. and Orchestra:
Fantasia (Soudant).

45—"Transigeons" — One-Act

Fantasia (Soudant).

8.45—"Transigeons"— One-Act Play (d'Hervilliez).

9.10—Belgian Contemporary Music (contd.). Mouvements symphoniques (de Guide). Fairy Dances "A Midsummer Night's Dream" (Vreuls). Symphonic Variations (Gilson).

10.0—News.

10.10—Salon Orchestra. Conductor: Féron. Germaine Marville (Songs). Waltz, "The Rose of Stamboul" (Fall). Extase (Ganne). Songs. Hungarian Dance (Sztojanowitz). Tyrolean Intermezzo (Königshofer). Songs. A.B.C. Potpourri (Komzák). Songs (Delmet). Gipsy Song (Dury).

Songs (Deimet). Gipsy Song (Dury).

11,0-12.0 m't. — Records. Symphonic Study, Falstaff (Elgar). Au bord d'une source (Liszt). La procession nocturne (Rabaud). Hungarian March (Berlioz).



Walter Féron and the Salon Orchestra provide the Brussels No. 1 programmes at 5.15 and 10.10 p.m.

922 kc/s (325.4 m.); 32 kW Fransmits at intervals from 6.0 a.m. Transmits at intervals from 6.0 a.m.
4.10 p.m. — Week-end Variety —
Schrammel Band, Salon Trio,
and Humorous Sketch.
5.35—Records.
5.55—News.
6.0—German Transmission: "Love
Song" — Play with Songs
(Mantler); Recitations,
6.35—Records.
6.45—News in German

i.35—Records. j.45—News in German. j.0-7.50—See Prague. j.50 — Variety from Moravská-

Ostrava.

8.55—Talk: Making Life easy,
9.10—Concert from Bratislava,
9.55-11.30—See Prague.

BRUSSELS (No. 1)

620 kc/s (483.9 m.); 15 kW. 5.0-5.10 a.m. — Homing-Pigeon : 15 kW

Notes.

8.30-9.5—Records; Gym; News.
12.0 noon—Records: Light Music.
12.30 p.m.—Weather; Shipping.
12.35—Salon Orchestra. Conductor:
Féron (Violin).

Féron (Violin).

1.0—News.

1.10—Cigány Music—Salon Orchestra. Conductor: Féron.

1.30—Records; Art Notes.

2.5—Mme De Reyghere-Coppens (Songs). Aria, "Scipione"; (Handel). Dein blaues Auge (Brahms). Nanny (Chausson).

Tout gai (Ravel).

2.15—Records: Rio Grande (Lambert).

2.13—Records: Rio Giante (cambert).
2.30—Belgian Music by Duquennois (Pite.). Campeador (Jongen). Nocturnale (Schoemaker).
Six Pieces (Poot).
2.50—Poems.
3.0—Records: Negro Spirituals.
3.15—Deridoux (Accordion).

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. Arias from
"Der Wildschütz" (Lortzing),
"Figaro" (Mozart) and "The
Huguenots" (Meyerbeer). Uocchi
celesti (di Crescenzo). Arias,
"L'Etoile du Nord" (Meyerbeer) and "Rigoletto" (Verdi).
Song of the Flea (Mussorgsky).
Aria, "The Barber of Seville"
(Rossini).

Song of the Flea (Mussorgsky).
Aria, "The Barber of Seville" (Rossini).

12.31 p.m.—Radio Orchestra. Conductor:
Douliez, Bethume (Violin). Japanese Parade (Vollstedt).
In a Nuremberg Doll Shop (Wendel). Tarantella (Liszt) Megalomania (Waltham).
Violin: Aragon (Gebhardt). Two little soldiers Heykens). Petite suite (Eraly). Manhattan Moonlight (Alter); at 1.0-1.10—News; Shipping.

1.30—Xylophone and Saxophone Records.

2.0—Lecture-Recital: The Opera

1.30—Xylophone and Saxophone Records.

2.0—Lecture-Recital: The Opera and Oratorio—Weber, Rossini and Berlioz.

3.0 — Sylvain Hamy and Georges Martin (Pftes.).

3.30—Yvonne Hudsyn (Songs).

4.0—Messager Records.

4.15 — Germaine - Buysse - Rolin (Violin). Concerto in C (Haydn). Two Hungarian Dances (Brahms).

4.40—Announcements.

4.45—Richard Minne reads.

5.0—Hurdy-Gurdy Records.

5.15—For Women..

6.0 — Week-end Concert — Radio Orchestra. Conductor: Douliez, Francine Bruylants (Songs). Overture, "William Tell" (Ros-

sini). Songs. The Whistler and his Dog (Pryor). Waltz, "Faust" (Gounod). Songs. Anitra's Dance (Grieg). Selection, "The Land of Smiles" (Lehâr). In the intervals, Tauber and Gigli Records

Cords.
7.30—News; Interview.
8.0—Records. Leonora Overture
No. 1 (Beethoven). Symphonic
Suite, Le Printemps (Debusy).
Pastorale d'été (Honegger).
8.30—"In den spijtigen Duivel".
—Radio Cabaret. I.N.R. Jazz
Band, Renaat Grassin, Emmy
Daelman, Bergers and Steurs
(Accordion). Band, Rena Daelman, (Accordion).

(Accordion).

10.0—News.

10.10—Records. Pastoral Symphony in F (Beethoven) by the BBC Symphony Orchestra. Conductor: Toscanini. Overture, "Gwendoline" (Chabrier). Conductor:

11.0-12.0 m't.—Brasserie Concert from the Oud-België, Antwerp.

BUCHAREST

Relayed by Radio-Romania, 160 kc/s (1,875 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Fransmits at intervals from 5.30 a.m. 2.15 p.m.—News; Sports. 2.25—Records; at 1.15—News. 2.0—Announcements; Talk. 2.—Radio Orchestra. Conductor: Rabesco.

6.2—Radio Orchestra. Conductor:
Bobesco.
7.20—Talk.
7.35—Mme Valentine CretzoiuTassian (Opera Arias).
8.0—Letter-box.
8.15—Ghinda Dance Band.
9.30—News; Sports Notes.
9.45—Restaurant Concert.
10.45—News in English.
11.0-12.0 in't.—Records.

RUDAPEST

SUDAPEST

546 kc/s (549.5 m.); 120 kW.
Transmits at intervals from 6.45 a.m.
12.5 p.m.—Station Orchestra.
1.30—Records.
2.35—News.
4.15—Reading.
4.45—News.
5.0—Hungarian Songs by Paul Kâlmár and the Béla Farkas Cigány Band.
6.0—Reading.
6.30—Gyula Kerékjárto (Violin).
7.0—János Lavotta Commemoration Concert. Ervin Major and Ernő Ketter (Píte.). Introductory Talk by Arpád Balázs.
8.0—Talk.
8.15—"Lustiges Allerlei"—Variety' from Berlin. Zeesen Station

by Arpád Balázs.

8.0—Talk.

8.15—'' Lustiges Allerlei ''—Variety from Berlin. Zeesen Station Orchestra. Schuricke Trio, Herbert Ernst Groh (Tenor), Lilie Claus (Soprano), Pörschmann (Harmonica).

9.20—News.

9.45—Rachel Thauvoye (Harpsichord). English Suite in F (Bach). Leggiere and Minuetto (Fiocco). Fête (Couperin). Toccata (Hermann).

10.20—Ilniczky Dance Band from the Hotel Gellért.

11.0—News (German, Italian).

11.10—Pertis Cigány Band from the Hotel Vadászürt.

12.5 a.m. (Sunday)— News for Hungarians abroad.

COLOGNE

(Reinl).

658 kc/s (455.9 m.); 100 kW. 6.0 a.m.—Hymn; Weather; For Farmers. 6.10—Gym; Records. 6.55—Hymn; Motto. 7.0—News.

.0-News. .10-Station Orchestra. .Waather; Water Level; 8.0 — Weather; Calendar.

Calendar.

8.10—Gymnastics.

8.30—Station Orchestra.

9.30-10.30—See Munich.

11.30—See Munich.

11.30—See Vienna.

2.0—News; Records.

2.30-6.30-See Munich.

6.30—Station Orchestra. Conductor: Kühn. August Kreuter (Violin). Overture, "The Merry Wives of Windsor" (Nicolai). Violin and Orchestra: Rondo capriccioso (Ries). Ballet, "Les millions d'Arlequin" (Drigo). Wedding Waltz, "The Veil of Pierrette" (Dohnańyi). Humoresque on a Viennese Melody (Reinl).

(Rein).
8.0—News.
8.10—Light Music, Station Orchestra. Conductor: Hagestedt.
Willi Schneider (Bass-Baritone),
Edith Heimbach-Rego (Soprano),
Franz Neugebauer (Trumpet).

Franz Neugebauer (Trumpet).
Hans Flamm (Accordion).
10.0—News; Records.
10.30—See Berlin.
12.0 m²t.-3.0 a.m. (Sunday)—See Breslau.

SATURDAY (September 10)

DEUTSCHI ANDSENDER

191 kc/s (1,571 m.); 60 kW 5.0 n.m.—Chimes; Weather. 5.5—Music from Breslau. 6.0—Call; News; Records. 6.30-8.0—See Breslau; at 7.0—

News.

9.0-9.40—To be announced.

10.30-11.0—For Children.

11.15-11.30—Weather; Shipping.

11.55—Weather.

12.0 noon—Krüger Band; at 12.55
p.m.—Time; Greetings.

11.55—Weather.

12.0 noon—Kriiger Band; at 12.55 p.m.—Time; Greetings.

1.45—News.

2.0—Jigger Band and Records.

3.0—Weather; Markets; Exchange.

3.15—Records; Programmes.

4.0—Station Orchestra. Conductor: List. Anna Antoniades (Pfte.) and Ruth Herell (Songs). Scherzo and March, "Love for Three Oranges" (Prokofiev). Fugue in G for Strings (Mozart). Pfte. Concertino (Françaix). Romance from the Symphony in D minor (Schumann). Bell Aria, "Lakmé" (Delibes). Rondo all'ongarese (Haydn-Karl List). Aria, "Zaide' (Mozart). Tambourin (Rameau). Intermezzo, "Il campiello" (Ferrari). March, "The Bartered Bride" (Smetana). Prelude, "Carmen" (Bizet). Polka, "Viennese Impressions" (Melichar). Aria, "Der Schauspieldirektor" (Mozart). Terzen-Intermezzo (Juon). Minute Waltz (Chopin). Comedy (Overture (Scheinpflug). The Clock is playing (Blaauw-Seidler-Winkler). Delirien-Walzer (Strauss). Persian March (Strauss): at 5.0-5.15—" Mentioned in Dispatches"—

sian March (Strauss); at 5.0-5.15
—" Mentioned in Dispatches"—
Reminiscences.

6.0 — Hermann Diener and his
Collegium musicum.

7.0—Soft Strains of Music — Rambour Band. Bruno Sänger (Violin), Georg Gut (Tenor) and
Georg Haentzschel (Pfte.).

8.0-10.20—See Munich.

10.20 — Serenade. Emil Seiler
(Viola), Artur Schulz (Flute) and
Hans Theopold (Pfte.). Adagio
for Viola and Pfte. (Glinka).
Miniature Suite for Flute, Viola
and Pfte. (Fuchs).

10.45—Weather.

11.0—Berlin Station Orchestra.
Conductor: Heinrich Steiner;
Masurat (Violin); Schrader
('Cello) (Recorded). Comedy
Overture (Busoni). Double Concerto (Pfitzner). Country Dances
(Paulsen). Variations on a FolkSong (Georg Schumann).

12.0 m*t.-2.0 a.m. (Sunday)
See Stuttgart; at 12.55—Time.

FRANKFURT

FRANKFURT

1,195 kc/s (251 m'); 25 kW.
Cassel, etc. See Sunday.
5.0 a.m.—See Breslau.
5.45—Back to the Land.
6.0—Hymn; Motto; Gym.
6.30-8.0—See Berlin.
8.0—Time; Water Level; Weather;
Gym.
8.30—Schlangenbad Spa Orchestra.
9.30-10.30—See Munich.
11.30—See Munich.
11.5—See Vienna.
2.0—Time; News.

2.0—Time; News; Music. 2.30-6.30—See Munich. 6.30-Records : Light Music.

6.30—Records: Light Music,
7.0—Sports Review.
7.10—Gerhard Winkler Music (Recorded). Deine Augen. Dir allein. Der Geige Liebeslied.
Strassensänger von Neapel. Musik hat mich verliebt gemacht. Overture, "Donna Chiquita."
Ein Lieb ohne Ende. Japanese Teahouse. Puppenparade. Mein Hawaii. Wenn du lachst, schöne Frau. Senkt sich die Nacht übers Tal. Neapolitan Serenade. Don Pedro.
8 0—Time: News: Weather for

Tal. Neapolitan Serenade. Don Pedro.

8.0—Time; News; Weather for Farmers.

8.15—A Jolly Week-end—Concert Part I. Station Choir and Orchestra. Conductors: Bruckhaus and Moritz. Overture, "William Tell" (Rossini). Chorus, "Fra Diavolo" (Auber). Slav Impressions (Uray). Chorus, "Garmen" (Bizet). Romantic Suite (Armandola). Suite, "Boccaccio" (Suppé). Part II. Hans Schütz and his Orchestra. Lindenmarsch (Kollo). Waltz, Siren Magic (Lehár). Tip top (Kletsch). Song. "Frühlingsluft" (Strauss). Träumen von Liebe (Schütz). Toreo fino (Lucchesi). Valse musette (Schütz). Seemannsbummel (Wehowski). Klänge vom Oktoberfest (Schütz). March, Schneidig (Vollstedt).

10.0—Time; News; Sports.
10.30—Music from Munich
12.0 m't.—See Stuttgart.
2.0-3.0 a.m. (Sunday) — Music from Breslau.

HAMBURG

904 kc/s (331.9 m.); 100 Bremen, etc. See Sunday. 5.45 a.m.—Motto; Weather. 5.50—From Farm and Field. 100 kW. 5.00—From Faint and From 6.00—Gymnastics. 6.10—Records: Light Music. 6.30—See Berlin; at 7.0-7.10— 8.0-8.20 — Weather; For House-

wives.
9.30—See Munich.
10.30—NSKK Band. Conductor:
Schulze. Talk in the interval.
11.30—See Munich.
1.0 p.m.—Shipping; Weather.
1.15—See Vienna.

1.0 p.m.—Shipping; Weather.
1.15—See Vienna.
2.0—News; Records.
2.30-6.30—See Munich.
6.30—Records. Ein Schütz bin ich,
"Das Nachtlager in Granada"
(Kreutzer), by Willi DomgrafFassbaender. Folk-Song, Wo die
Alpenrosen blüh'n, by the Buchbergers. Ach du klarblauer
Himmel (Silcher), by the Berlin
Teachers' Choir. Der Vugelbeerbaam (Vogel), by Helmuth
Stampfl. Alle Birken grünen
(Licht) by Karl Schmitt-Walter.
Folk-Song, Wildgänse rauschen
durch die Nacht, by a Soldiers'
Chorus and Military Band.
6.50—Weather Report.
7.0—A Young Girl goes to the Ball
... Scandinavian Songs and
Dances sung and played by a
Hitler Youth Ensemble. Conductors: Wirth and Stapelberg.
7.45—Things we seldom notice.
8.0-10.20—See Munich,
10.20—Report: The German Light
Athletics Championships.

7.45—Things we seldom notice.
8.0-10.20—See Munich.
10.20—Report: The German Light
Athletics Championships.
10.30—Light Music — Hamburg
Orchestra. Conductor: Heinrich
Rudolph. Station Choir. Conductor: Gregor. Women's Vocal
Trio and Male Voice Quartet.
12.0 m't.-3.0 a.m. (Sunday) —
See Breslau.

HILVERSUM (No. 1)

160 kc/s (1,875 m.); 10 kW until 5.40 p.m.; 150 kW from

160 kc/s (1,8/5 m.); 10 kw until 5.40 p.m.; 150 kW from 5.40 p.m.; 150 kW from 5.40 p.m. VARA Programme. 7.40 a.m.—Records. 9.40—VPRO Service. 10.0—M. J. Jong (Organ), A Play and Records. 11.40—Film Talk. 1.55—Fantasia Ensemble. 2.40—Report. 3.10—VARA Orchestra. Conductor: de Groot. Overture, "Ceneren-tola" (Rossini) Valse fantastique (Glazunov). Herzwunden (Grieg). Letzter Frühling (Grieg). Excerpt, "Izeyl" (Pierné). Fantasy on Catalan Themes (Beekhuis). Scènes gitanes (Infante). 4.10—Talk with Records: Czecho-slovakia.

4.10—Talk with Records: Czechoslovakia.
4.45—Records.
5.10—A Film.
5.40—Steyn (Organ).
6.10—VARA Children's Choir.
6.50—Political Review.
7.10—VPRO Talk.
7.40—S O S Messages; News.
7.55—VARA Orchestra. Conductor: Holzer. Overture, "Flotte Bursche" (Surasaste). Waltz, España (Waldteufel). Tanz auf der Glaskugel (Rust). Loin du bal (Gillet). Slav Dance (Hoffmann).
8.40—Records.
9.10—Talk with Records.
9.25—Variety Programme — Esmeralda Septet, etc.
10.40—News.
10.50—Steyn Accordion Band.
11.10-11.40—Records.

HILVERSUM (No. 2)

HILVERSUM (No. 2)

995 kc/s (301.5 m.); 10 kW
until 5.40 p.m.; 60 kW from
5.40 p.m. Also on Jaarsveld,
722 kc/s (415.4 m.); 17 kW.
KRO Programme.
7.40-8.55 a.m.—Records.
11.40—Religious Address.
11.40—Police Notes; Weather.
11.55—KRO Orchestra. Conductor:
van 't Woud. March, The
Crusader (Sousa). Overture,
Princess Golden Shoes (Rust).
Kisses in the Gondola (Masserini).
Silhouettes (Hadley). Selection,
"The Dollar Princess?" (Fall).
12.40 p.m.—Records; at 12.55—
Homing-Pigeon Notes.

SATURDAY (September 10)

1.0—KRO Orchestra. Conductor:
van 't Woud. Selection, "The
Merry Wives of Windsor"
(Nicolai) and "Callirhoé"
(Chaminade), Teerose (Küster),
Bolero (Billi), Potpourri (Tchaikovsky),
1.40—For Children,
2.10—KRO Orchestra. Conductor:
van 't Woud. König Karnaval
(Rosey). Dividenden (Moréna),
Mirandolina (Dostal), Valse
dorée (Popy). The Gladiators'
Farewell (Blankenburg),
2.40—For Children,
3.40 — KRO Melodists; Klein
(Songs); Records.

8.40 — KRO Melodists; I (Songs); Records. 5.10—Records. 5.25—The KRO Nightingales. 6.0—Book Review; Records. 6.40—Police Messages; Talk. 7.15—Topical Talk. 7.40—News. 7.55—Meditation with Music

-Meditation with Music by

7.55—Meditation with Music by Abbé de Greeve.

8.15 — Variety — KRO Orchestra. Conductor: van 't Woud, "The Two Western Minstrels," the KRO Melodists, and Klein (Songs).

10.10—News; Film Talk.

10.35-11.40—Records.

KALUNDBORG

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.). 0 a.m.—Time; Gym; Weather, 30 — Service from Copenhagen

Cathedral.

8.35—Weather. 10.58—Weather; Fish Markets. 12.0 noon - 2.0 p.m.—Julian Or-

10.58—Weather; Fish Markets.
12.0 noon - 2.0 p.m.—Julian Orchestra.
2.10—Radio Orchestra Conductor: Grøndahl, Inger Bolvig (Songs).
Diplomats' March (Sousa), Fingal's Cave (Mendelssohn). Selection, "Les Brigands" (Offenbach). Accelerationen - Walzer (Strauss). Paraphrase on Old Italian Folk Songs (Reesen).
Three Fantastic Dances (Turina). Song Cycle, Drengens Dag (Kai Rosenberg). Overture in D (Schubert). Excepts, "The Queen of Sheba" (Goldmark). Berceuse (Debois). Selection, "Miss Decima" (Audran) Symphonic Intermezzo (Nielsen). Neapolitan March (Gastaldon).
4.10—Childhood Reminiscences.
4.30—Aarhus University's Tenth Anniversary and Matriculation Festival from the Aarhus Hall. Part I, "University Cantata" (Hye - Knudsen). Conductor: The Composer, Addresses by C. Holst-Knudsen, Prof. Andreas

Anniversary and Matriculation Festival from the Aarhus Hall. Part I, "University Cantata" (Hye - Knudsen). Conductor: The Composer. Addresses by C. Holst-Knudsen, Prof. Aridreas Blinkenberg and the Minister of Education, Jørgen Jørgensen. Part II, "University Cantata" (Hye-Knudsen).
6.0—Weather; Exchange; Markets.
6.25—Records.
6.35—French Lesson.
7.0—Time; News.
7.25—Talk: Danish Industry.
7.50—"Boccaccio's Italy"—Cultural Pictures (Neitendam) with Gerhard Jessen, August Liebman, Christen Moller, Poul Juhl and Aksel Schiotz.
8.35—"The Co-Optimist Revues"—Talk by Ludvig Brandstrup, with Viktor Fischer (Pfte.).
9.18—Pictures of Daily Life—A Day at Sea.
9.35—Preil's Dance Band.
10.0—News; Weather.

9.35—Preil's Dance Band.
10.0—News; Weather.
10.20—Preil's Dance Band.
12.0 m't.—Chimes; Olesen Dance Band from the Valencia.
1.0-2.0 a.m. (Sunday) — Wivex Dance Band.

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. n=Prayers. 8.0=Prayers.
8.15—Gymnastics.
8.30—Orchestra from Danzig.
9.30-10.30—See Munich.
10.45-10.50—Weather Report.
11.30—See Munich.
1.0 p.m. — Time; News; Pro-

11.30—See Munich.

1.0 p.m. — Time; News; Programmes.

1.15—Station Orchestra. Conductor: Schlenger. Börschel (Pfte.) and Wilcken (Violin). Overture, "Carnival in Rome" (Strauss). Pfte. and Orchestra: Straussiana (Börschel). Romantic Overture (Künneke). Violin and Orchestra: Hunzarian Potpourri, Magyar Hungarian Potpourri, Magyar dalok (Léhár). Waltz, Mein Lebenslauf ist Lieb und Lust (Strauss). Spanish Dance, "Frasquita" (Lehár). Overture, "Fatinitza" (Suppé).

2.0—News; Anniversaries.
2.30-6.30—Sports; Announcements.
7.0—Records: Light Classical Music, 7.40—Topical Report; News.
8.15—Light Music—Station Orchestra, etc., Conductor: Wilcken; Station Dance Band; Hans Hellhoff and Peter Arco.

10.0—News; Sports.
10.40—Music from Berlin.
12.0 m't.-3.0 a.m. (Sunday)
See Breslau.

LEIPZIG

LEIPZIG
785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s
(233.5 m.).
5.50 a.m.—News; Weather.
6.0-8.20—Sec Berlin.
8.20—Kurt Jacobi (Flute) and Hans
Polack (Pfte.).
8.30—Orchestra from Danzig.
9.30-10.30—See Munich.
10.30—Weather; Programmes.
10.45—Anniversaries.
10.50—Talk: Supply and Demand.
11.30—See Munich.
1.0 p.m.—Time; News.
1.15—See Vienna.
2.0—Time; News; Records.
2.30-6.30—See Munich.
6.30—"Beautiful Homeland"—
Records.

6.30—" Beautiful Homeland" — Records. 8.0—News. 8.10—See Cologne. 10.0—News; Sports. 10.30—See Berlin. 2.0-3.0 a.m. (Sunday) — Music from Breslau.

LILLE (Radio PTT Nord)

1,213 kc/s (247.3 m.); 60 kW. ransmits at intervals from 6.30 a.m. 0 p.m.—Mlle Dupuis (Pfte.). Nocturne in C sharp minor (Chopin). Fantaisie impromptu (Chopin). Etude in A minor (Chopin). Waldesrauschen (Liszt). Gnomenreigen (Liszt). El vito (Infante).

(Infante).
4.30—One-Act Plays: (a) "Mariage d'amour" (de Lorde-Marsèle), (b) "Dudule a gagné le gros lot" (Mirc).
5.0—Amateurs' Hour.
6.0—Photography; Records.
6.20—For Housewives.
6.30—Records of Germaine Féraldy

6.30—Records of Germaine Feraldy (Songs).
6.35—Sports.
6.45—Economic and Social Notes.
7.0—Records of Villabella (Tenor).
7.10—Talk in English; Record.
7.30—Radio Journal.
8.0—"La maison claire."
8.30—Cresus—Play (Rolain). After the Programme—News.

MELNIK

MELNIK

1,113 kc/s (269.5 m.); 100 kW.
Transmits at intervals from 6.0 a.m.
Programme in German.

12.30 p.m.—News.
12.45—Station Orchestra. Conductor: Mandée. Overture, "Rosamunde" (Schubert). Selection, "Martha" (Flotow). Suite der Freude (Scheinpflug). I love thee (Grieg). Wedding Day on Troldhaugen (Grieg). Intermezzo, "Cavalleria rusticana" (Mascagni). Hofballtänze (Lanner).

1.45—Records.
2.00—For Children.
2.30-3.0 — Orchestra. Conductor: Binder, Lehár Music, etc.
6.0—Station Orchestra. Overture, "The Lovely Galatea" (Suppé). Radio Waves (Motena). Waltz, "Eva" (Lehár). Apollo March (Lincke). Quadrille, "Der Schatzmeister" (Ziehrer).
6.45—" Medium" — Thriller (Lindt).
7.15—News.

(Lindt).
7.15—News.
7.30—Review of the Week.
8.15— "Merry Week-end"—
Variety Orchestra; Popper and
Rudolph Schubert (Pfte. Duo).
10.15—News; Sports.
10.30-11.30—Dance Music from the
Corso Hotel, Marienbad.

MONTE CENERI

1,167 kc/s (257.1 m.); 15 kW 12.0 noon—Records. 12.29 p.m.—Time; News. 12.40-1.30—Orchestra. Conductor

4.59—Time.
5.0—Radio Orchestra, Conductor:
Casella, Overture, "The Daughter
of the Regiment" (Donizetti).
Potpourri, "Von Wien durch
die Welt" (Hruby). Prelude
(Rachmaninov). Selection, 'Norma" (Bellini).
5.40—Records: Famous Melodies.
6.15—Martinelli-Pizzagalli (Mandoline and Guitar).

line and Guitar).

6.30—Talk: Interior Decoration.
6.45—Tourist Talk; Records.
7.50—News,
8.0—Talk: Contemporary Italian
Authors—Aldo Palazzeschi.
8.20-10.30—French Soireé. Part I:
Marguerite de Reding (Old French
Songs). Part II: The French
Romantics—Poem (Chausson), by
Jeanne Gautier (Violin), Nino
Herschel (Pfte.), Part III: "Una
colazione di innamorati" (Le
déjeuner des amants)—One-Act
Play (Birabeau). Part IV: Modern
French Music—by Jeanne Gautier Play (Birabeau), Part IV: Modern French Music—by Jeanne Gautier (Violin) and Herschel (Pfte.). La plus que lente (Debussy), Tzigane (Ravel), Part V: Marguerite de Reding (Film Songs), Part VI: Records of French Dance Music.

MOSCOW

172 kc/s (1,744 m.); 500 kW and 300 kc/s (1,000 m.); 100 kW. Transmits at intervals from 4.0 p.m. 6.0 p.m.—Concert or Opera (Re-cords); at 6.30—Politics; at 7.0 —Literature. 9.30—News; Kremlin Chimes. 10.0 (on 1,000 m. only)—Tele-vision

vision. 10.0 p.m.-1.0 a.m. (Sunday)-1,744 m. only. 10.0—Talks (French, Spanish).

MUNICH

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
6.0 a.m.—Motto; Weather.
6.30—See Berlin; at 7.0—News.
8.0—Motto; Gym.
8.30—Records.
9.30-10.30 (from Nürnberg)—The Reich Party Congress — Parade of the Hitler Youth in the

of the Hitler Youth in the Stadium.

11.0—Markets; Talk.

11.30 (from Nürnberg)—The Reich Party Congress—Sixth Annual Congress of the German Labour Front in the Congress Hall.

1.0 p.m.—Time; News; Topical.

1.15—Station Orchestra, Trumpet.

2.0—News; Exchange; Sports.

2.30 (from Nürnberg)—The Reich Party Congress—Festival Concert, with Reports on the Finals of the Nazi Light Athletics Contests in the Stadium; at 4.0—Reports on the Kf Folk Festival.

"In Marching Time" -

-Station Orchestra. Conductor:

Records.
7.0—Station Orchestra. Conductor:
Mihalovic. Overture, "Der
Opernball" (Heuberger). Excerpts, Dance Suite (Pottgiesser).
Mazurka brillant (Liszt). Movements, Pastoral Trio (Weber).
Waltz, Abendsterne (Lanner).
Gipsy Patrol (Ranzato). Salutd'amour (Elgar). Oriental Screnade (Riedel). Overture, "Ein
Fest im Elysium" (Noack).
Gallop, Tal ab (Kletzki).
8.0—The Reich Party Congress.
10.0—Time; News; Sports.
10.20—"Dancing into Sunday!"
—Station Dance Band. Conductor: Ranftl. Munich Schrammel
Ensemble. Ery Ebeling (Soprano).
12.0 m't.-3.0 a.m. (Sunday)—See
Breslau.

NAPLES GROUP

Naples (No. 1), 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), m.); 10 kW. Florence (No. 1), etc. See Sunday.
45 a.m.-2.15 p.m.—See Rome

7.45 a.m.-2.15 p.m.—See Rome Group; at 5.15-5.50 (Florence (No. 1) only) —See Turin Group.
7.0—Music and Songs.
7.10—Topical.
7.20—"Around the World "—Fantasy (Basilisco).
8.0—Time; News.
8.10—"Lustiges Allerlei "—Variety from Berlin. Zeesen Orchestra; Schuricke Trio, Groh (Tenor), Porschmann (Harmonica), Lilli Claus (Soprano).
9.15—Sketch.
10.0—Orchestra. Gipsy Waltz.

9.15—Sketch.
10.0 — Orchestra, Gipsy Waltz
(Carr), Visione veneziana (Brogi).
Sketches (Gronostay). Estasi
(Rosi). Without your Love
(Gordon). Soltanto tu (Malatesta).
Lontananze (Mauri).
10.30-11.55—Dance Music; at 11.0

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.—Concert. 4.0—Bergen Radio Orchestra. 4.45—Announcements; Weather. 5.5—For Children. 5.35—Variety Concert. 6.0—Reading

5.5—For Children, 5.5—For Children, 5.35—Variety Concert, 6.0—Reading, 6.10—Station Orchestra, Conductor: Kramm, Suite, The Crown of

India (Elgar). Caprice viennois (Kreisler). Hebrew Melody (Ach-India (E. Het (Kreisler). Het Molly (Grainger).

(Granger).
45—News.
15 — Norwegian Music by the Station Orchestra. Conductor

Kramm.
7.50—Talk.
8.15—"Lustiges Allerlei '—Variety
Concert from Berlin. Zeesen
Orchestra. Schuricke Trio, Herbert Ernst Groh (Tenor), Lilie
Glaus (Soprano), Pörschmann
(Harmonica).
915—Talk. 9.15—Talk.

9.40—News; Topical Talk. 10.15-11.15—Dance Music.

PALERMO

PALERMO

565 kc/s (531 m.); 3 kW.
Transmits at intervals from 7.45 a.m.
8.30 p.m.—Light Music.
9.0—"Paggio Fernando"—Two-Act Play (Mura).
10.0—Light Music. Girandola (Allegra). Waltz, Spring in Heidelberg (Bruckner). Spensierata giovienezza (Savino). Excerpt, "Le due gemelle" (Ponchielli). Festa di bimbi (Delle Cese). Serenata dei fiori (Leonardi). Overture (Fetras). Saltarello, "La Tilda" (Cilea).

(Cilea).
.0 p.m.-12.30 a.m. (Sunday)—
See Rome group.

PARIS (Eiffel Tower)

PARIS (Eiffel Tower)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 6.30 a.m.

6.30 p.m. — Women Composers.
Mme Gabrielle Parodi (Songs)
and Mme Le Conte-Revers
(Pfte.). Songs (Elsa Barraine).
Pfte.: (a) Notations d'été (Alice
Sauvrezis), (b) Prelude (Marguerite Canal), (c) Valse mélancolique (Marguerite Canal), (d)
Sicilenne (Germaine Tailleferre),
(e) Pastorale (Germaine Tailleferre),
(e) Pastorale (Germaine Tailleferre),
Colli Boulanger).

7.0—Songs from Nice Côte d'Azur.

7.30—Radio Journal; Time.

7.55—Talk on the following Programme.

7.50—1alk on the following Programme.

8.0 (also Lyons (PTT), Bordeaux-Lafayette, and Montpellier (PTT)) — "Faust" (Gounod) from the Opéra. Conductor: Fourestier.

11.50—News.

PARIS (Poste Parisien)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 6.28 a.m.
12.0 noon—Exchange; Records.
12.45 p.m.—News.
1.0—La course au trésor, with Pierre Dac.
1.10—Records; Amusement Guide.
1.25—Antoinette Soulas.
1.30—Exchange

1.25—Antoinette Soulas.
1.30—Exchange.
1.35—" Session of the S.D.L." by Pierre Dac and Company.
2.5—News; Records.
3.0—Programme by Jacques Bretenil

3.0—Programme by Jacques Breteuil.
4.35—Exchange.
6.0—News; Exchange.
6.10—Roman Catholic Review.
6.30—For Children.
7.1—Racing; Sports Notes.
7.10—Amusement Guide.
7.15—"Well-known Marches,"
presented by Roger François.
7.45—Bellini Records.
8.0—Topical.

7.45—Bellini Records.
8.0—Topical.
8.10—"Chansons de l'eau," with Helene Regelly and the Andolfi Orchestra.
8.23—Song Records.
8.38—La table tournante: "Attila"—Sketch (Bergerac).
8.45 — Records.
9.0—Schumann Lecture-Recital by Fernand Gregh.
10.0—News.
10.7—Dance Music.
11.0—News.

PARIS (PTT)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6,30 a.m.
11.0 a.m.—Records.
11.45—Richard Blareau Orchestra; at 12.45-1.0 p.m.—News.
1.45—Tourist Talk; Reading.
2.15—Talk: Strindberg.
2.30 — Programme for Hospitals.
Orchestra. Conductor.: Guillou.
Leanne Montange (Songs). Over-

15—Talk: Strindberg.
30 — Programme for Hospitals.
Orchestra, Conductor.: Guillou.
Jeanne Montange (Songs), Overture; "La loi du pal" (Cazeneuve), Songs (Yvain, Learsi,
Casadesus). "Le Banc d'amour "
—Play (Fossorie), Pastours
(Capri), Airs limousins (Rouchard)

chard),
3.30—Review,
4.0—Talk on Aviation,
4.15—Alice Raveau (Songs),
4.30—Henriquez de Souza Orchestra and Records, March of the
Dolls (de Michelj), Waltz, Gold
and Silver (Lehár), Andalusian

Scenes (Huguet and Tagell). Re-Scenes (Huguet and Tagell). Scords. Habañera (Chabrier). Wedding Day on Troldhaugen (Grieg). Valse triste (Sibelius). Romanian Rhapsody Maricara (Nea). Scene and Waltz, "Gretna Green" (Guiraud). Records. Selection, "Tosca" (Puccini). Neapolitan Serenade (d'Ambrosio). Juegos (Turina). March of Churina).

Selection, "Tosca" (Puccini).
Neapolitan Serenade (d'Ambrosio). Jucgos (Turina). March of the Tin Soldiers (Turina).
6.30—Records.
6.45—Claude Dorane (Songs).
7.0—Radio-Journal; News.
8.20—Operetta Music. Selection, "The Grand Duchess of Gérolstein" (Offenbach), "François les bas bleus" (Messager).
8.30—Orchestra. Conductor: Cebron. Gabrielle Ristori (Songs).
Overture, "Genoveva" (Schumann). Songs (Chabrier). Excepts, "Don Juan de Mañara" (Tomasi).
9.10—"Plaisir de rompre"—One-Act Play (Renard), with Beatrice Bretty and Roger Monteaux.
9.50 — Variety. La voix des Quatre, Rose Cornaz and her Hawaiian Guitar Ensemble, and Jean Marsac.
10.30—Weather; News.
10.45—Records: Light Music.
11.0—"Le gréluchon délicat"—Three-Act Play (Natanson).

PARIS (Radio-Paris)

PARIS (Radio-Paris)

182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes.
6.30—Time; News; Records.
6.50—Gym and Records.
8.29-9.10—Time; News; Records.
10.45—Reading; Records.
11.45—Markets; Water Level.
12.0 noon—Economics.
12.15 p.m.—Bailly Orchestra. Overture, "Egmont" (Beethoven).
Sur l'Onde (Florent Schmitt).
Excerpt, "The Three Bears" (Coates). Le coeur de ma mie (Jacque-Daleroze). Au village (Godard). Four Cinderella Dances (Löhr).

(Jacque-Dalcroze). Au village (Godard). Four Cinderella Dances (Löhr).

1.0—Time; News.

1.15—Bailly Orchestra. Excerpts, "L'Arlesienne" (Bizet). Ich liebe dich (Grieg). Aimée (Pierné). Valse triste (Sibelius). Jota aragonesa (Saint-Saëns).

1.58—Programmes; Records.

2.30—Markets; Metals.

2.45—Talk: Humorous Poetry.

2.55—Film Review.

3.0—Mme Samain (Songs).

3.18—Topical Review.

3.0—Talk on Aviation.

3.45—Jane Clairjane (Songs).

4.0—Colonial Programme: Reviews and Talks.

4.30—Records: Fêtes galantes (Debussy) by Maggie Teyte (Soprano) and Cortot (Pfte.).

4.40—Review of History Books.

4.50—American Markets.

5.0—Bob and Bobette Programme—René Paul-Groffe and Company.

6.0—Talk: The Spirit of France.

6.10—Talk: Flower Poetry.

6.25—Theatre Review.

6.45—Talk; Programmes.

7.0—Reading (Paul Morand).

7.15—Classical Records.

7.30—Racing.

7.40—Ballet Review.

7.50—Weekly Review.

7.50—Weekly Review.

7.50—Weekly Review.

7.50—Time; Home Affairs.

8.8—Foreign Affairs.

8.8—Foreign Affairs.

8.8—Foreign Affairs.

8.9—"Le pain de ménage" — One-Act Play (Renard) with Béatrice Bretty and Roger Monteaux.

9.10—Variety. "La Voix des quatre." Rose Cornaz and her

Béatrice Bretty and Roger Monteaux.

9.10 — Variety. "La Voix des quatre," Rose Cornaz and her Hawaiian Guitar Ensemble, and Jean Marsac.

9.50—News; Review in Rhyme.

10.5—Orchestra. Conductor: Cebron. Gabrielle Ristori (Songs). Chansons du Monsieur Bleu (Rosenthal). Spanish Rhapsody (Ravel).

10.55—Sound News.

(Ravel).
10.55—Sound News.
10.45—Time; News.
11.0—Dance Music.
12.30 a.m. (Sunday)—Programmes.

PRAGUE

638 kc/s (470.2 m.); 120 kW, Transmits at intervals from 6.0 a.m. 4.10 p.m.—See Brno. 5.35—Topical Review. 5.40—For Farmers; Records, 5.50—Industrial Programme. 6.5—For Workers.

6.5—For Workers.
6.20—Bernhard Salon Orchestra.
7.0—Time; News; Politics and Economics.

The Tycho Brahé

Economics.
7.20—Report: The Tycho Brahé
Procession from Prague to StaráBoleslav.
7.50—Variety from Moravská-

8.55—Talk: Books and Men. 9.10—Concert from Bratislava. 9.55—Local News. 10.0—Time; News; Records. 10.30-11.30—Dance Music Dvorsky and his Melody I from the Café Lucerna.

SEPTEMBER 2, 1938

RADIO EIREANN

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30 — Tea-Time Music—Kathleen Pollaky's Trio, and Alex Rogers. 6.15 — Adolphe Gebler's Wind

Poliary's Trio, and Alex Negles.
6.15 — Adolphe Gebler's Wind
Quintet.
6.45—News.
7.0—Louis Lee's Accordion Band.
7.40—Reading: "Mary Queen of
Scots" (Hamilton Bell).
7.50 — "Summer Gardens" — Irish
Radio Orchestra. Conductor:
Lieut. D. P. O'Hara, Edna
Chambers (Pfte.) and Mabel
Home (Contralto).
8.40—Jan Wien (Zither Banjo).
9.10 — Irish Greyhound Grand
National from Shelbourne Park,
Dublin. Commentator: Michael
Byrne.

Byrne. 9.20—Nuacht an Lac—A Gaclic News Broadcast. 9.30—Variety. 10.30—News; National Anthem.

RADIO-MÉDITERRANÉE

1,276 kc/s (235.1 m.); 27 kW. Transmits at intervals from 12.15 p.m., 7.0 p.m.—Variety. 7.15—Talk: Provence. 7.30—Request Programme. 8.0—Talk. 8.0—Talk.
8.10—News; Exchange.
8.15—Lajos Kiss Cigány Band.
8.25—Light Music.
8.40—Humorous Items.
9.5—Weather Report.
9.10—Classical Concert from Monte Carlo.

10.0—Radio Journal.

10.15—Dance Music RADIO-NORMANDIE

RADIO-NORMANDIE

1,411 kc/s (212.6 m.); 15 kW.
6.25 a.m. — Nos vieux pommiers
(Dior)
6.30—Press Review; Music.
7.0 — Swing Something in the
Morning.
7.15—Time; Sparkling Melody; at
7.30—Time; Weather.
7.45—Physical Exercises.
8.0—Music in the Morning.
8.15—Time; Happy Days.
8.30—News.
8.40—Your Message from the
Stars.

Stars.

8.45—Programme for Children.

9.0 — Time; Smiles; Songs ar

Stars.

8.45—Programme for Children.

9.0 — Time; Smiles; Songs and Stories.

9.15—These Names make Music—Romberg and Young.

9.30 — Harry Davidson and his Commodore Grand Orchestra.

9.45—Light Music.

10.0—Time; Carroll Gibbons and his Boys, Anne Lenner, George Melachrino, Morton Fraser, Robert Erwin.

10.30—Radio Favourites.

10.45—Rhythm on Pianos.

11.0—Time; The Musical Mirror.

11.15—The Songs we know them by.

11.20—Chansonnettes.

12.0 noon—Light Music.

2.12-p.in.—News; Light Music.

2.15—join in the Chorus.

2.30—The Nimble Needle.

2.45—The. Whirl of the World.

3.0—Time; Radio - Normandie Concert Hall.

3.15—The Call of Cuba.

3.30—Dance Music.

4.0—Time; Pleasant Quarter Hour.

4.15—Swing Music.

4.30—Old Friends.

5.0—Time; Request Music.

5.30—Football Results; Music.

6.0—For Children.

6.45—Talk; News; Racing.

-For Children

6.0—For Children.
6.45—Talk; News; Racing.
7.0—Light Music.
7.30—News; Talk.
7.50—Records of Carlo Cotti.
8.0—Operetta Music.
8.40—Le Paradis d'Amitabha (Vel-

lones)

9.0—Variety.
10.0—Dance Music.
11.0—Café Concert.
12.0 m²t.—Melody at Midnight.
12.30 a.m. (Sunday)—Swing Something in the Morning.
12.45-2.0—Dance Music; at 1.0 and 1.30—Time.

RENNES-BRETAGNE

1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
6.45 p.m.—News in English.
7.0—Radio Journal.
7.30—Light Music. Conductor:
Louis Martin, Selection, "Cibous lette" (Hahn). Chants de matelots (de Séverac). Carnival Sere-

nade (Erlanger). Moorish Reverie (Nerini). Les roses (Metra). Selection, "Boccaccio" (Suppé). 0-News; Amusements; Records. 30-Concert. Conductor : Bilew-ski. The Italian Symphony (Men-delssohn). Masques et Bergaski, The Italian Symphony (Mendelssohn). Masques et Bergamasques (Fauré), Excerpts, "Les Perses" (Leroux). Songs, Pastels chantants (Flament), Suite provençale (Jongen), Songs, Les maisons d'été (Bloch), Scherzo (Lalo), Izéyl (Pierné), Evolution (L'Enfant), After the Programme—News, Concert.

REYKJAVIK

REYKJAVIK

208 kc/s (1,442 ·m.); 100 kW.
Transmits at intervals from 12.0 noon.

9.10 p.m. — Weather (Icelandic,
German, English).

9.20—Choral Music.

9.40—News; Foreign Affairs.

10.15—Reading or Play.

11.30—Radio Quartet.

12.0 m²t.-2.0 a.m. (Sunday)—
Dance Music.

ROME GROUP

Rome (No. 1), 713 kc/s (420.8 m.); 120 kW. Bari (No. 1), etc. See Sunday.

7.45 a.m.—Gym.
8.0-8.20—Time; News; Markets.
11.30—Mulazzi Orchestra.
12.30 p.m.—Sports; Records.
1.0—Time; News.
1.15—Radio Orchestra, Fantasia on Old Themes (Filippini). Non ho

12.30 p.m.—Sports; Records.
1.0—Time; News,
1.15—Radio Orchestra, Fantasia on Old Themes (Filippini). Non ho più chitarra (Poussigné). Chin-chillita (Fiorini), Carezze (Mascheroni). Occhi di zingara (Fillipini). Per te vivro (Secunda). Waltz (Roland). Castiglia innamorata (Gnecco).
2.0-2.15—News.
5.0—News; Lotteries.
5.15—Paola Nowikova (Soprano).
5.50—News; Lotteries.
6.10-6.50—For Farmers.
7.20—Dopolavoro Notes;
7.30—Orchestra.
7.30—Orchestra.
7.50—Talk.

7.30—1 ark. 8.0—Time; News; Music. 8.30 (Naples (No. 2) only)—Light

3.30 (Naples (No. 2) only)
Music.
9.0—" Malgrado tutto "—One-Act
Play (Silvestri).
9.40 (approx.)—Rodolfo Schmidt
(Pfte.). Sonata in A (Parodisi).
Carnaval (Schumann).
10.30—Topical Talk.
10.40 (approx.)—Dance Music.
11.0—News.

11.0—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 (290.9 m.).

6,0 a.m.—Hymn; Motto; Gym.

6,30—See Berlin,

7.10—Records: Light Music,

8.0—Time; Weather; Programmes.

8.10—Gymnastics.

8.30—Orchestra from Danzig.

9,30-10.30—See Munich.

11.0—For Town and Country,

11.30—See Munich.

1.0 p.m.—Time; News.

1.15—See Vienna,

2.0—News; Records.

2.30-6.30—See Munich.

6.30—Engels (Tenor); Fougner (Pfte.).

7.0—"This and Thatl'—Records,

7.30—Topical Review.

8.0-12.0 m't.—See Munich.

12.0 n't.—See Munich.

SOTTENS OTTENS
677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s
(748 m.).
2.29 p.m.—Time; News; Records.
10—Records of French Opera
Music

10—Records of French Opera Music.
30—Records of Fritz Kreisler (Violin). Chanson Louis XIII (Couperin). Las précieuse (Couperin). Dance of the Marionettes (Wintermitz). Sérénade de Polichinelle (Kreisler). Caprice viennois (Kreisler). Tambourin chinois

nois (Kreisler). Tambourin chinois (Kreisler).
1.50—Dance Records.
2.0—Records. Symphony in A (Mozart), by the London Philharmonic. Conductor: Sir Thomas Beecham. Concerto in D minor for Two Violins (Bach). by Szigeti and Flesch, with Orchestra. Totentanz (Liszt), by Kilenyi (Pfte.) and Orchestra.
3.0—"Lucia di Lammermoor" (Donizetti) (Scala, Milan, Recordings).

ings). 4.40—Dance Records.

5.0—See Monte Ceneri. 6.0—For Children. 6.30—Records of Dance Music and Songs. 6.50—Legal Talk

7.0—Records.
7.30—Talk: Maurice Barrès.
7.40—Talk: School Magazines.
7.50—News.
8.0—"Le Hérisson" — One-Act Play (Duvernois), by the Gay Companions.
8.30—Massagni Concert. Radio Suisse romande Orchestra. Conductor: Haug. Mme Bereny (Soprano), Mme E de Carli (Mezzo - Soprano), Campagnano (Baritone), Marini (Tenor), Selections, "L'Amico Fritz," "Cavalleria rusticana." Three Arias, "10.15-11.0— Adison Dance Band

10.15-11.0 — Adison Dance Band from the Splendid.



M. Jacque-Dalcroze, inventor of Eurhythmics. Strasbourg gives a programme of his music, beginning at 9.30 p.m.

STOCKHOLM

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 7.45 a.m.

Motala, etc. See Sunday.

Transmits at intervals from 7.45 a.m.

12.5 p.m.—Records.

12.30—News; Weather.

12.50—Exchange; Time.

1.0—Sundsvall Women's Folk-Song Choir and Quintet, Edlén (Flute).

Excerpts, Once upon a time (Lange-Müller). Choir: (a) Violin (Norrman), (b) Landet Vitavall (Wikander). Flute: (a) Fantasia on Swedish Folk Melodies (Andersen), (b) Suite (de Frumerie).

Ballet Music, "Cinderella" (Hannikainen). Dance (Backer-Grondahl). Choir: Songs (Hult).

2.0—September Day—Report.

2.30—Ely Fischer Kjerulf (Songs), Cruce (Violin) from Malmö.

3.0—Talk.

3.30—Band. Conductor: Kallin. Festival Polonaise (Yngve Sköld). Overture, "Morning, Noon and Night" (Suppé). Tales from the Vienna Woods (Strauss). Von Wien durch die Welt (Hruby). Berceuse (Olausson). Saturday Night in Djurgarden (Kahrman).

4.30—Reading (Barthel).

5.5—Mikael's Domra Ensemble,

5.5—For Children.

6.0—Talk with Records: A Late Summer Evening in Helsinki.

6.30 (from Göteborg)—Sonata in Fminor (Schumann) by Kurt Appelbaum.

6.30 (from Göteborg)—Sonata in F minor (Schumann) by Kurt Appelbaum.
7.0—News; Weather; Topical.
7.30—"The Optimist and the Pessimist"—Dialogue (Härneman).
7.45—Old Dances by Agren's Band.
8.15—"Lustiges Allerlei"—Variety from Berlin. Zeesen Station Orchestra. Schuricke Trio, Lilli Claus (Soprano), Groh (Tenor), Porschmann (Harmonica).
9.15—A Radio Rhapsody.
10.0—News; Weather.
10.15-11.0—Von Eichwald Dance Band.

STRASBOURG

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 17. 12. 0 noon—Orchestra. Conductor: de Villers, Overture, "Fra Diavolo" (Auber). Hungarian Divertissement (Michiels). Selection, "Samson and Delilah" (Saint-Saëns). Divertissement on Russian Songs (Rabaud).

Saëns), 2...
Songs (Rabaud).

12.45 p.m.—News.

1.15—Music from Paris (PTT).

1.45—Economic and Social Notes.

2.0—Exchange.

2.30—Light Music.

4.0—Dance Music. Conductor:
Laumet; at 4.10—Report from
Laumet; at 4.10—Report from
Alsace.

Casnoble. 4.0 — Dance Music. Conductor: Laumet; at 4.10—Report from the Strasbourg Fair: The Walk-ing Tour of Alsace. 5.0—Music from Alpes-Grenoble. 5.45—Music from Toulouse (PTT). 6.20—For Fatmers.

SATURDAY (September

6.45-Legal Talk (German). 6.45—Legal Talk (German).
7.0—News.
7.30—See Rennes-Bretagne.
8.0—News (German, French).
8.30—Station Orchestra. Conductor:
Bour. Overture, "The Merry
Wives of Windsor" (Nicolai).
Norwegian Dances (Grieg). The
Moldau (Smetana).
9.30—Jacque-Dalcroze Music, Conductor: de Villers. March, La
Champenoise. Chanson à la Lune.
La chère maison

La chère maison. 9.45 — " Le bonhomme iadis "

(Jacque-Dalcroze).

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; Weather; For Farmers; Gym. 6.15—News. 6.30—See Berlin; at 7.0—News. 8.0—Water Level; Weather; Mar-

8.0—Water Level: Weather; Markets; Gym.
8.30—Records.
9.30-10.30—See Munich.
11.30—Folk Music; Peasant Calendar; Weather.
12.0 noon—To be announced.
1.0 p.m.—Time;—News.
1.15—To be announced.
2.0—Folk-Music.
3.0—Records.
4.0—"As you like it!"—Stuttgart Station Sketch Book presents Saturday Afternoon Variety.
6.0—Topical.
7.0—"Merry Week-end"—Records.
8.0—News.

6.0—Topical.
7.0—"Merry Week-end"—Records.
8.0—News.
8.10—Light Music, Station Orchestras, Conductors; Görlich and Butz-Bara; Airmen's Band, Conductor: Kupfer; "Odeon"
Mandoline Orchestra, Conductor: Becher. In the interval, "Das Wunderkind" (The Wonder Child)—Sketch (Hartung).
10.0—Time; News; Sports.
10.30—Music from Munich, 12.0 m't.—Serenade, Station Orchestra and Choir. Conductor: Zimmermann. Emma Mayer (Contratto) and Karl Erb (Tenor). Part I. Schubert. Music to "Rosamunde." Threé Tenor Songs. Part II. "Der Rose Bilgaefahrt" (Schumann). Cast. "Rosamunde." Three Tenor Songs. Part II. "Der Rose Pilgerfahrt" (Schumann). Cast: Inge Camphausen, Elisa Keller, Emma Mayer, Anton Knoll, Her-mann Conzelmann and Heinrich Lampe. 2.0-3.0 a.m. (Sunday)—Music from

Breslau.

TOULOUSE (Radio-Toulouse)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 12.0 noon—Dance, La bourrasque

12.0 noon—Dance, La bourrasque (Péguri).
12.5 p.m.—Musette Refrains.
12.20—News; Military Band.
12.45—Light Music.
1.15—Orchestra.
1.30—Request Programme.
1.55-2.10—News; Press Review.
6.0—News; Chansonnettes.
6.40— Orchestra. Selection, "Il Trovatore" (Verdi) and "Coppélia" (Delibes). Morgenblätter (Strauss).
6.55—News; Sports.

(Strauss).
6.55—News; Sports.
7.0 — Operetta Music. Excerpts,
"The Song of Happiness"
(Lehár), "A Night in Venice"
(Strauss), "White Horse Inn"
(Stolz-Benatzky), "The Duchess of Chicago" (Kálmán).
7.15—Musical Comedy Music.
7.45—Light Music.
8.0—News; Salon Orchestra.
8.30—Talk; Bal Champêtre.
8.45—Selection, "Au Soleil de Marseille" (Sellers).
9.10—Talk.
9.15—"Matinée d'Eté"—Fantasy.
9.30—Dance Music.

10.15—Request Programme.
10.45—Marches and Soldier Songs.
11.0—Operetta Music. Excerpts,
"The Gipsy Baron" (Strauss),
"Parade du Monde" (Scotto),
and "Countess Maritza" (Kál-

11.15—Light Music, 11.55-12.0 m't.—News.

TURIN GROUP

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. m.); 7 kW. Sec Sunday.

7.45 a.m. - 2.15 p.m.—See Rome

1.49 a.m. - 2.10 p.m.—see Rome Group. 5.0—News; Lotteries. 5.15—Dance Music. 5.50-6.50—See Rome Group. 7.19 (Rome (No. 2) only)—News in English.

7.20-8.30—See Rome Group.
8.30—Records; at 8.36 (Milan (No. 1), Rome (No. 2), and Bolzano)

News and Talk (German).
9.0—Band. Conductor: Arlandi.
Neghelli (Leoni). Old Dances (Catalano). Venetian Carnival (Bourgmann). First Kiss (Goletta). Rustic Scenes (Carbonaro).
Military March (Musso).
9.50—Talk.
10.0—Song Potpourri. Cetra Orchesstra.

10.40 (approx.)—Dance Music.

11.0—News. 11.15-12.30 a.m. (Sunday)—Dance

VIENNA

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. 6.0 a.m.—Motto; Weather; For

Farmers; Gym.
30—See Berlin; at 7.0-7.10— 6 30-

Farmers; Gym.
6.30—See Berlin; at 7.0-7.10—
News.
8.0—Markets.
8.30-10.30—See Munich.
10.30—Light Music. Station Orchestra. Conductor: Sandauer.
Overture, "Undine" (Lortzing).
Waltz, Hofballtänze (Lanner).
Kleine Wiener Musik (Pachernegg). Lieber, guter Stephansturm (Gundacker). Moorish
March (Mohr). Selection, "Eva"
(Lehár). Bolero (Sandauer). Waltz,
"The Gipsy Baron" (Strauss).
March, Hoch Heidecksburg
(Herzer).
11.30—See Munich.
1.0 p.m.—News.
1.15—Station Orchestra. Conductor: Sandauer. Overture, "Der
lustige Krieg" (Strauss). Waltz,
Träume an der Donau (Stolz).
Two Old Viennese Dances
(Schmutzer).
Donaustrand
Kemeter). Volk im Lied
(Robrechi).

(Schmutzer). Allerhand vom Donaustrand (Schönherr-Kemeter). Volk im Lied (Robrecht). 2.0—News. 2.10—Potpourri, From the Rhine to the Danube (Rhode)—Station Orchestra. Conductor: Sandauer, 2.39-6.30—See Munich. 6.30—Station Orchestra. Conductor: Schönherr. March, Pampasreiter (Fischer). Overture, "Eva" (Lehár). Tanzminiaturen (Dressel). Melody (Ketelbey). Waltz, Münchner Leben (Löhr - Huber). Hokuspökus (Mosheimer). Selection, "Annchen von Tharau" (Strecker). Polka, Knalleffekt (Kröger). Gaukler im Orient (Lindemann). Verliebt (Ziehrer). Kreuder Potpourri (Rixner). Ballet, "Die Tartarin" (Stauch). Zwanzinette (Lehár). March, Schützer des Friedens (Lutz). 3.0—See Munich. 10.0—News. 10.30—See Berlin. 12.0 m't.-3.0 a.m. (Sunday)—See Breslau.

WARSAW

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 6.15 a.m.

of p.m.—Hejnal Mandoline Band from Lwów. March, "Faust" (Gounod), Suite (Popy), Naples (Mezzacapo). Neapolitan Sere-nade (Rivelli). March, Caramba (Maciocchi).

(Maciocchi)
4,45—Reading.
5.0—Dance Music from the Radio
Exhibition. In the interval.
Programme Announcements,
6.0—Programme Notes,
6.10—Smidowicz (Pite.). Sarabande and Courante (Lully),
Caprice (Dandrieu). Tambourin
(Rameau-Godowski). Sonata in E

(Beethoven).

6.45—Poems.
7.0 (from Poznan)—Danczowski ('Cello), Suite (Falla), Midnight on Maundy Thursday in Seville (Turina), Malagueña (Albéniz), 7.20—Topical Talk, 7.30—Concert from the Radio Exhibition. Englard Orchestra, Lisowski Trio, Paluli (Xylo-

7.20—Topical Tajk.
7.30—Concert from the Radio Exhibition. Englard Orchestra,
Lisowski Trio. Paluli (Xylophone), Luczaj (Bass).
8.0—For Poles Abroad, Part I.
From Poznan: For Children.
Part II. From Torun: "The
Lakes of Pomerania"—Sequence
(Bukowski).
8.45—News; Topical Talk.
9.0—For Farmers.
9.10 — Polish Songs and Dances.
Station Salon Orchestra, Poznań
Quintet, Gruszczynski (Tenor)
and Sliwinska (Soprano).
9.50—Sports.
10.9—Concert.
11.0-11.5—News; Weather.

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"HIS MASTER'S VOICE" 6-valve Radiogram, model 661 for AC mains. Three wavebands, 16:5-52 metres, 195-580 metres, 725-2,000 metres. Fluid - light and two - speed tuner. Continuously variable tone control. Extra loudspeaker sockets. Constant speed motor fitted with hand and automatic brakes. Handsome cabinet of figured walnut marks a new departure in radiogram design.

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PUSH BUTTON 6-valve supernet table model receiver, 657 for AC mains. Four wavebands, 13-30 metres, 32-90 metres, 195-570 metres and 725-2000 metres. Eight push buttons for automatic tuning of principal stations, together with one which enables the set to be operated manually, cabinet. CASH PRICE 17½ GNS.



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From the Empire's finest research laboratories and largest radio factories emerges an unbeatable new season's range of "H.M.V." receivers and radiograms...
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Seven of the new "His Master's Voice"

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Pick-up sockets provided.

OASH PRICE

Also available with trawler waveband 70-200 metres) instead of 13-5-50 metres band. Model 653C at 11 Gns.

"SOUND" EXPERIENCE