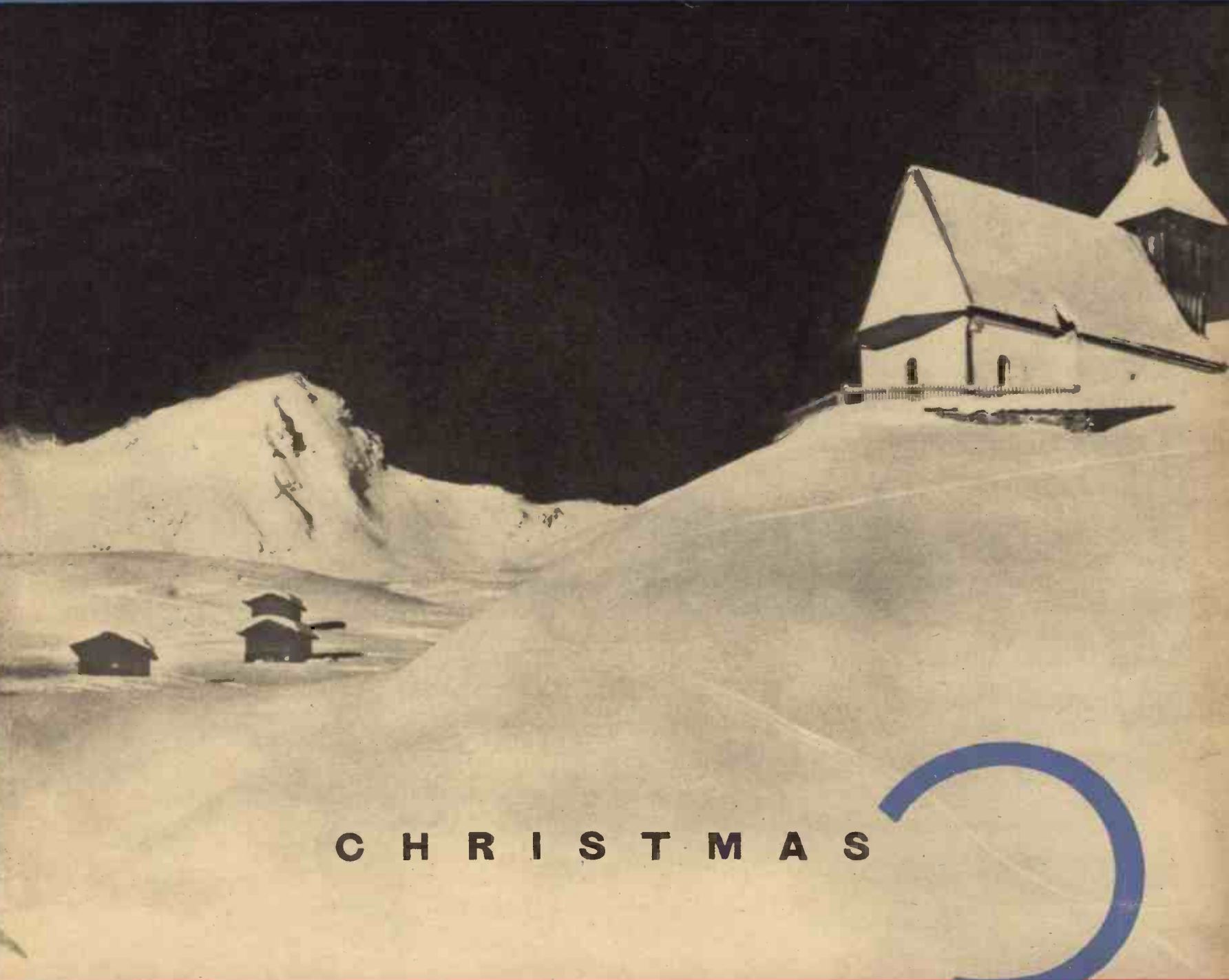


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WORLD-RADIO



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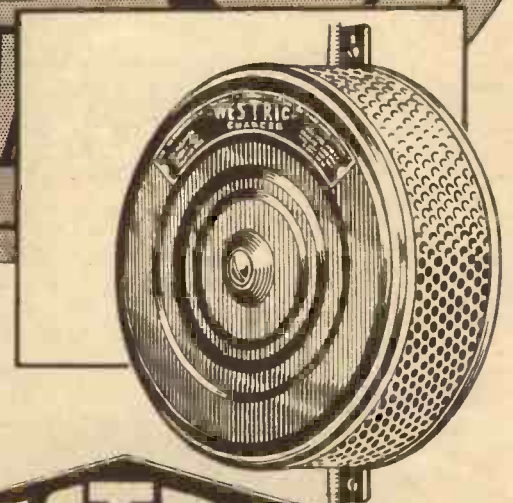
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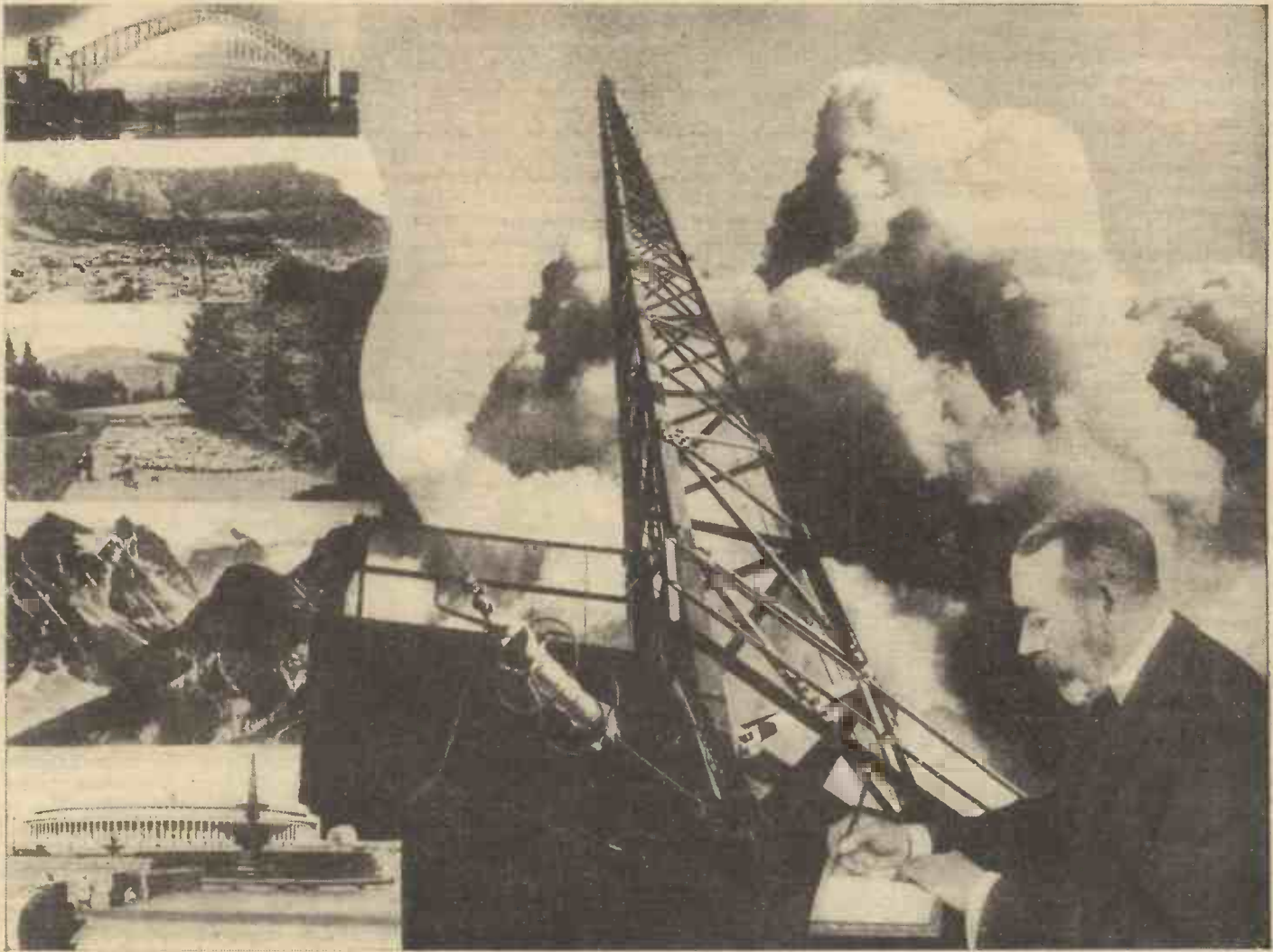
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W.R. 20/12/35



CAR BATTERY TRICKLE CHARGER





"THIS GREAT FAMILY" 2.30 P.M. CHRISTMAS DAY)

WORLD-RADIO CHRISTMAS NUMBER: CONTENTS

Our Correspondents "Taste the Pudding"

The Voice J. D. STRANGE

Silent Sound CHARLES G. PHILP

Changing Asia THE SHEIKH MIRZA ABDULLA

"More Howlers" and "Radio for All"

From the Dud Letter Office ASHLEY STERNE

Some Microphone Memories of BUDDY ROGERS

Answers to Correspondents JAY COOTE

Fellow-Passengers A. J. PETCH

"This Great Family"

The Imperfect Alibi "DECIBEL"

Short, Medium, and Long Wave Programmes

The front cover photograph is of the Church of Arosa, Switzerland

THE NEXT ISSUE OF "WORLD-RADIO" WILL BE PUBLISHED ON SATURDAY, DECEMBER 28

"Tasting the Pudding"

(From our Correspondents)

THE RECIPE FOR THE FRENCH PUDDING differs a little from the English one, as in France Christmas is not as important a festival as New Year. Still, Père Noël does fill the children's shoes (not their stockings) at this period of the year, and festivities are everywhere. *Reveillon* concerts on Christmas Eve, lasting well through the night, are a standard ingredient.

Radio-Paris offers Dickens's "Cricket on the Hearth" in French on Christmas Day, and in the *Paris PTT* pudding are *The Nativity*—a reconstruction of a mediæval Mystery Play, with the National Orchestra (on Christmas Eve), and a gala evening on Christmas Day.

Radio-Toulouse's pudding is well seasoned, well mixed, neither too light nor too heavy. On the 24th, from about 9 p.m. until 2 a.m., the dish includes carols, sacred music, Regional Christmases, past Christmases, Christmas legends, religious services, and *Reveillon* concerts. A Protestant service and Massenet's *Manon* are to be served on Christmas Day.

A portion that must have been lost in the mixing and found a day later—because Boxing Day is not recognised in France—will be offered for consumption on the 26th between 6.10 and 6.45 p.m. It consists of Christmas stories, poems, and so on, for children.

Poste-Parisien offers a pudding with a decided French flavour. The ingredients, though a little unfamiliar to the British palate, are good: on Christmas Eve a transmission for children; scenes from *The Misanthrope* (Molière), and *Cyrano de Bergerac*; an Anglo-French half-hour, offering selections from English and French works; and dance music until two o'clock in the morning (an almost universal ingredient).

Midnight Mass from Rouen Cathedral on the 24th, and on the 25th, Mass from Rouen Cathedral and carillons dedicated to Christmas, are some of the ingredients chosen by *Radio-Normandie*. Rich fare, possibly, but it will no doubt be relieved by lighter ingredients with more spirit and sauce.

CHRISTMAS IN ITALY, this year will be shorn of some of its old features, such as Christmas trees, which have become taboo by an edict of the Fascist Party. As a form of anti-sanctions sentiment, their sale has been discountenanced, on the ground that the Christmas tree is a pagan, Nordic symbol, invented by sanctionist Nordic countries.

This will be the first war-Christmas since 1917, and the incubus of war will be felt in almost every Italian home. Not for that, however, will the old traditions be allowed to lose their hold. Christmas in Rome is the family feast of the year, much as in England, and good food and plenty of wine are the order of the day. The food restrictions imposed here for economy's sake say nothing about chickens, turkeys, geese, ducks, and guinea-fowl, so vast quantities of these birds will be consumed at the big Christmas feasts.

The ordinary Roman family generally manages to get in two large Christmas dinners, though one of them, strictly speaking, is a supper. The vigil, Christmas Eve, is usually kept as a day of abstinence, and no meat is eaten. In the average family all the members go to mid-

night mass in one of the big churches of Rome, and return home shortly after midnight for the *cenone*, or big supper, which is eaten round about one o'clock. They retire to bed about 2 a.m.

Instead of Christmas trees we shall see cribs, or *presepi*, in the private houses this year. These are pictures of the manger at Bethlehem, with plaster statuettes of the Infant Jesus, Mary, St. Joseph, and the shepherds.



A pretty ceremony which I have seen at other Christmases here is that of the children's sermons in the old church of Ara Coeli on the Capitol Hill, which takes place on Christmas Eve. Little boys and girls, of from about seven to ten years of age, stand on chairs in the nave of the church near the pulpit, in their party suits and frocks, accompanied by their adoring parents, and make short sermons of a few minutes each to groups of other children gathered round. The children, who are not at all shy as a rule, repeat short homilies in which they have been diligently coached for days before by their parents. The little girls, as a rule, are more confident than the boys, and make gestures and inflect their voices like the little actresses they are.

HAVING ENTERTAINED SANTA CLAUS on his Name Day a fortnight ago, the Dutch people, including the very anonymous radio authorities, do not make quite so much of the Christmas festivities as do the people of England and Germany, and some of those who wish to keep Christmas in a typical manner are going over a wide area to do so.

The K.R.O. is making up its Christmas Eve broadcast with, among other things, a relay from Warsaw, a talk about Charity postage stamps—which are a great speciality of Holland—classical music, a selection on the carillon of the Royal Palace at Amsterdam, and songs and

Old Dutch dances by the Royal Military Band. The N.C.R.V., is broadcasting much instrumental Christmas music, including Corelli's Christmas Concerto for strings.

A.V.R.O. and V.A.R.A. are not much "on the air" during the Christmas holidays, but on Boxing Day the former of these is having another of its popular "Who's Who" puzzles, in which you are invited to guess the names of the various eminent people described by the announcer. Last year the Society received nearly a quarter of a million attempts at solutions, of which by no means all got near the mark. English listeners who have some idea of the Dutch language might have a shot at some of these, for at least a footballer, a champion cyclist and a couple of musicians will be described who, at the moment, are almost as well known in the British Isles as they are in their own country.

The V.A.R.A., on Christmas Day, will radiate an old Mystery Play, with music, lasting for a full hour, followed by a trombone quartet and the Carillon of Malines Cathedral. "He, She, and the Railway Porter," is the title of a lively sketch that will be broadcast in the evening.

CHILDREN DANCING around a Christmas tree in the Stockholm studio, under the supervision of "Uncle Sven" (December 24, 6.30 p.m.), traditionally spices the Swedish pudding, but there are several new ingredients this year, including (on the same day) greetings from listeners to relations on board ships, and a programme entitled "As You Like It," during which listeners will hear their favourite records.

The essence of our pudding comes, of course, on Christmas Day, the whole evening of which is to be devoted to listeners abroad. A speech by a prominent author, a Swedish play presented by foremost actors, and a musical programme, "Pictures from Sweden" are the ingredients.

Our dish will be "finished up" on Boxing Day with a performance of a musical comedy, *The Little Saint*, by Hervé.

A PLUM FROM THE DANISH PUDDING will be offered on Sunday the 22nd, when "A Visit to Hans Andersen's House in Odense" will be broadcast. The programme has been arranged in collaboration with the Columbia Broadcasting System, which is relaying the programme to America, and so English will be the language most used. You will be offered a choir of merry children's voices singing some of Andersen's songs at the place where he was born, and one of them telling his fairy tale, "The Little Match Girl."

Round about 10 p.m. on the 23rd, there will be a fore-taste of Christmas, for the air will be echoing with good wishes from listeners who have come to the Copenhagen studio to send Christmas greetings to their relatives and friends living on the Faroe Islands, north of Scotland.

Our Christmas Day pudding will be given a rare flavour by the inclusion of a concert on the famous old organ in the church of Frederiks-

(Continued at foot of page 6)

The Voice

By J. D. STRANGE

PROFESSOR ENDERBY MALLING stared round the broadcasting studio with almost child-like interest, as an efficient young man led him towards the microphone for a rehearsal of the speech he was to make a few hours later.

This Christmas the broadcasting company's plans were even more ambitious than usual, and the Christmas Eve programme was to be rounded off by a series of Christmas greetings to be spoken by a number of famous men—scientists, statesmen, thinkers, sportsmen, and others. Among them was Professor Enderby Malling, one of the world's greatest scientists.

Professor Malling was no stranger to speech-making, yet the little instrument before which he now found himself made him strangely hesitant. It seemed to affect his nerves, and he looked appealingly at the studio official as if for help. His heart began to beat with unwonted rapidity.

The young man came hurriedly forward as he noticed the Professor's hand go to his side. The next moment the old man reeled back from the microphone, and his face became as pale as death. The announcer hastily assisted him into a chair.

"Heart! Right—waistcoat—pocket. Phial!" gasped the old man, agony showing in his kindly blue eyes.

The official grasped the situation immediately. His fingers dived into the Professor's waistcoat pocket, and came out grasping a tiny phial. With a glance at the single sentence of direction on its label, the young man held the phial to the sufferer's lips.

The Professor swallowed with difficulty, then fell back in a state of collapse. Presently, however, he struggled to an upright position, and the colour returned slowly to his cheeks. He smiled tremulously.

"I'm sorry, but my heart has been serving me poorly of late." He paused for a moment, then went on, his voice rapidly gaining strength: "We can proceed with the rehearsal now, if I may remain seated while I speak."

The station official looked anxious.

"Do you think it wise, sir?" he inquired. The Professor nodded and produced his script with an attempt at briskness.

"I'm quite all right, I assure you, young man." The official hesitated, then, seeing that the old man was determined to go on, he adjusted the microphone carefully, so that it came about a foot from the Professor's chair.

"Just one moment, sir," he said, and dashed out through the doorway to a telephone-box. Here he spoke to an assistant in another department, who promptly got busy with certain apparatus. Then the young man dashed back to the Professor.

"When you see the light flash over there," he said, "perhaps you will be good enough to begin reading. There's no need to be nervous, because you won't be heard by listeners until you come again this evening for the real speech."

The Professor smiled and nodded, and, in due course, started to read slowly and distinctly.

The Professor's face was calm and peaceful as he sat staring into the warm glow of the fire. Mead, his butler, moved silently about the room, doing the small things which had to be done, pausing occasionally to direct a sharp look at his master's shadowy profile.

There was an appearance of strain in Mead's close-set eyes. Several financial transactions on which the butler had embarked had met with ill success, so that the small raids he had been accustomed to make on his master's cash, and, indeed, property, had begun to assume such large proportions that if things did not soon take a turn for the better, discovery, even by so unsuspecting a person as the Professor, was inevitable.

Mead set the bowl of flowers carefully in the centre of the table; from the sideboard he brought a cigar box, prepared a cigar with care, and handed it to his master. Striking a match, he held it out with steady fingers.

"Did the rehearsal pass off successfully this morning, sir?" he inquired respectfully.

"Eventually—yes—. But at first I was afraid I should be unable to speak. I had one of my attacks as I was about to start."

Mead clicked his tongue, commiseratively.

"Not one of your *bad* attacks, sir?"

Professor Malling smiled a trifle whimsically. "Your heart is strong, I hope, Mead," he said, absently.

"I believe so, sir. Oh, yes, sir, very strong. Although my father was carried off in a heart attack, in the end."

Mead looked down at the floor as if trying to hide the suggestion contained in this last statement. He had seen a copy of his master's will the previous day—when examining the contents of the library safe—and had been gratified to learn that there was a bequest to himself of Five Hundred Pounds for "so many years of faithful and attentive service."

"Ah! this heart trouble will probably 'carry me off,' too—as you so aptly phrase it."

"Oh, sir!" Mead's voice was full of horrified protest.

The Professor, however, smiled.

"Eventually," he qualified his statement.

"But Doctor Jameson tells me that with the aid of his drops, which I always carry here," he tapped his right-hand waistcoat pocket, "I can probably live to enjoy several happy years yet."

"Do you really think that if anything prevented your taking those drops, you might not recover from one of your attacks, sir?" enquired the butler in a hushed voice.

The Professor nodded.

"It is highly probable," he said, smiling, a look of gentle resignation in his eyes.

Mead helped his master into his coat and handed him his stick.

"Don't wait up for me, Mead, I shall be very late getting back from the broadcasting studio. So I'll say good-night—yes, and I may as well wish you a Merry Christmas, too, as you'll be taking the day off to-morrow. You'll find your Christmas envelope as usual on the hall table, before you go in the morning."

"Thank you, sir," the butler lowered his eyes. "But I shall stay up so that I can listen to your voice over the wireless, sir."

Mead was thinking rapidly.

"Then you can accept my good wishes by wireless, Mead," the old man answered, moving slowly towards the door.

Mead hesitated. Then with grim determination, he took a step back, laid one hand on a huge Chinese vase which stood on a stool beside the fireplace, and pushed.

Crash! the great vase fell across the stone hearth with a nerve-racking clatter. Professor Malling spun round as though he had been shot. His hand flew to his heart, and his face suddenly became grey.

"Mead—!" he gasped, and crumpled up limply on the floor.

The butler walked slowly across to the prone figure and stared down into the agony-filled eyes of his master.

"Phial—right—waistcoat—pocket!" the words came from between the blue lips of the prostrate man in a choking whisper.

Mead passed his tongue across his dry lips, hesitated, then turned away. He walked out of the room and closed the door carefully.

A little later, in the servants' quarters, Mead switched on the wireless with grave deliberation.

"The Master won't be speaking to-night, after all," he, observed impressively to the cook. "He wasn't looking at all well when I left him in his room just now. I hope he doesn't have another of his heart attacks. My old Dad was carried away in one," he added, adjusting the controls of the wireless set until the Christmas programme was coming through to his liking. "We left him alone one minute; ten minutes later we found him lying dead on the floor!"

"Runs in families, doesn't it?" inquired the cook.

"So they say. Although my heart's as sound as a bell."

The telephone bell rang in the hall, and Mead hurried outside to answer it. An anxious voice inquired why his master had not yet arrived at the broadcasting studio. The Professor was due to speak in five minutes' time!

Mead coughed gently.

"I'm very sorry, sir," he explained with pained regret in his voice. "I was about to ring you up: the Master has been taken ill, quite suddenly, and he won't be along."

Dusting his hands thoughtfully, the butler moved over to the door of his master's study, hesitated, then returned to the kitchen.

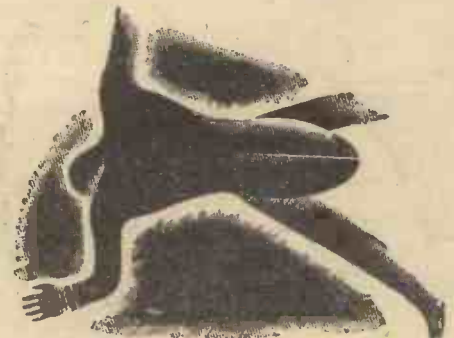
Inside the kitchen door, however, he came to an abrupt halt. He stood rooted to the ground.

From the loudspeaker on the kitchen table, his master's voice spoke to him in full and resonant tones.

"A happy Christmas to you all—a very happy Christmas, and may you all—"

But Mead heard no more. As his master's voice continued its benign message, a damp sweat broke over his forehead, and his face grew grey with agony. Next moment, he lay spread-eagled across the floor.

(Continued in col. 3 page 6)



SILENT SOUND *by Charles G. Philp*

EVEN great scientists and inventors need a holiday and a rest sometimes, and that is why Professor James Witherby decided to go and spend his Christmas with his oldest friend, Dr. Palow, at Port Wynne in North Cornwall.

A few days after his arrival he accompanied the Doctor in his car on a visit to one of his most distant patients, one John Wallace who lived at an old disused water-mill in the wild and desolate region known as Trelawny Moors. Wallace in his younger days had been a brilliant young scientist, but the Great War ruined both his health and his prospects.

Parking the car by the roadside, and pushing open a tumbled-down gate, the Doctor led the way round to the back of the old mill. They were met at the door by a tall, frail, slim man, of neglected and untidy appearance. Thick-lensed glasses covered mild, blue, near-sighted eyes, almost obscuring his thin ascetic features.

His pleasure at the arrival of his visitors was obvious, but restrained. The one and only living-room, although almost devoid of furniture, was redeemed by an enormous fire—a pleasing contrast to the almost-Arctic cold outside.

From the short medical cross-examination and advice, Witherby gathered that Wallace was a sufferer from angina pectoris, and was liable to sudden seizures.

The object of their visit accomplished, the Doctor thought it opportune to lead the conversation in a direction likely to be of interest to his friend.

"Oh! by the way, Wallace," he said, casually, "I forgot to mention that my friend here is Professor James Witherby, the Government expert on secret war inventions. Perhaps you've heard of him?"

Wallace sprang to his feet in delighted surprise. "Not—not the great Professor Witherby?" he cried. "The famous 'death ray' specialist?"

"The very same," answered the Doctor, laughing at the amazement his introduction had caused.

"Oh, Doctor! Doctor! I am so glad. It has been the dearest wish of my life to meet Professor Witherby. For, believe me, sir," he added, turning to Witherby, "I have something of the greatest national importance I can show you, if you will be good enough to spare me a little of your valuable time."

"Certainly," responded Witherby, kindly, for he had taken quite a liking to this lonely man. "I shall be most interested."

Probably to gain time in which to marshal his thoughts, Wallace busied himself for a few moments putting fresh logs on the fire. This done, he resumed his seat, facing his two visitors in the settle opposite.

"I will not go into lengthy details of what the Great War did for me and mine," he began. "It is sufficient to say that for many years past I have had but one object in life, and that was to invent or discover some means of putting an end for ever to the mad, insensate, and suicidal war mania, which at this very moment threatens to make the whole world a shambles."

"In my youth I had a first-class scientific training. With that as a basis, and aided by the 'silent voices' begotten of solitude, I have devoted every atom of energy I possess to research work, specially directed towards finding the so-called 'death ray', or its equivalent. In short, I sought to discover a force so terrifying and capable of such wholesale destruction that the nations of the world simply would not dare to fight again.

"Six months ago, after years and years of almost hopeless failure, I made my first discovery. To-day, I am confident I am on the verge of amazing discoveries. Indeed, it is

not too much to say that if my fundamental discoveries got into the hands of ignorant or unscrupulous persons their perfection might conceivably lead to the destruction of the whole world!"

"A cheerful sort of business," broke in the Doctor, in his usual breezy fashion. "What do you say, Witherby?"

"I think Mr. Wallace is perhaps a little too optimistic as to the possible practical results of any theoretical discovery he may have made. I have been following a similar line of research for some time past. So, also, have Marconi, Ravn, Grindell-Matthews, MacNeil, and a few others."

There was silence for a few minutes. Then Wallace rose and said:—

"If you will come with me to my workshop—I cannot call it a laboratory—I will show you a few experiments which will help you to understand better how I think war might be abolished."

He led the way out of the room, through a passage way, and up a short ladder to what had once been used as a barn. He switched on several electric lamps, for the place was very badly lit, explaining as he did so that he obtained power from the mill stream.

"There isn't much here, I admit. Just the usual amount of wireless equipment and junk, plus, of course, electric power. Yet with this, and the average amount of constructive ability, anyone has the means for carrying out research work of the most enthralling kind, with potentialities almost beyond belief."

"It sounds hardly possible," ventured the Doctor. "Wireless is a pet hobby of mine. Do you seriously mean to say that even an ordinary amateur, like myself, could emulate your example?"

"Certainly. Once you have grasped the fundamental principle of your objective and know precisely what results to look for."

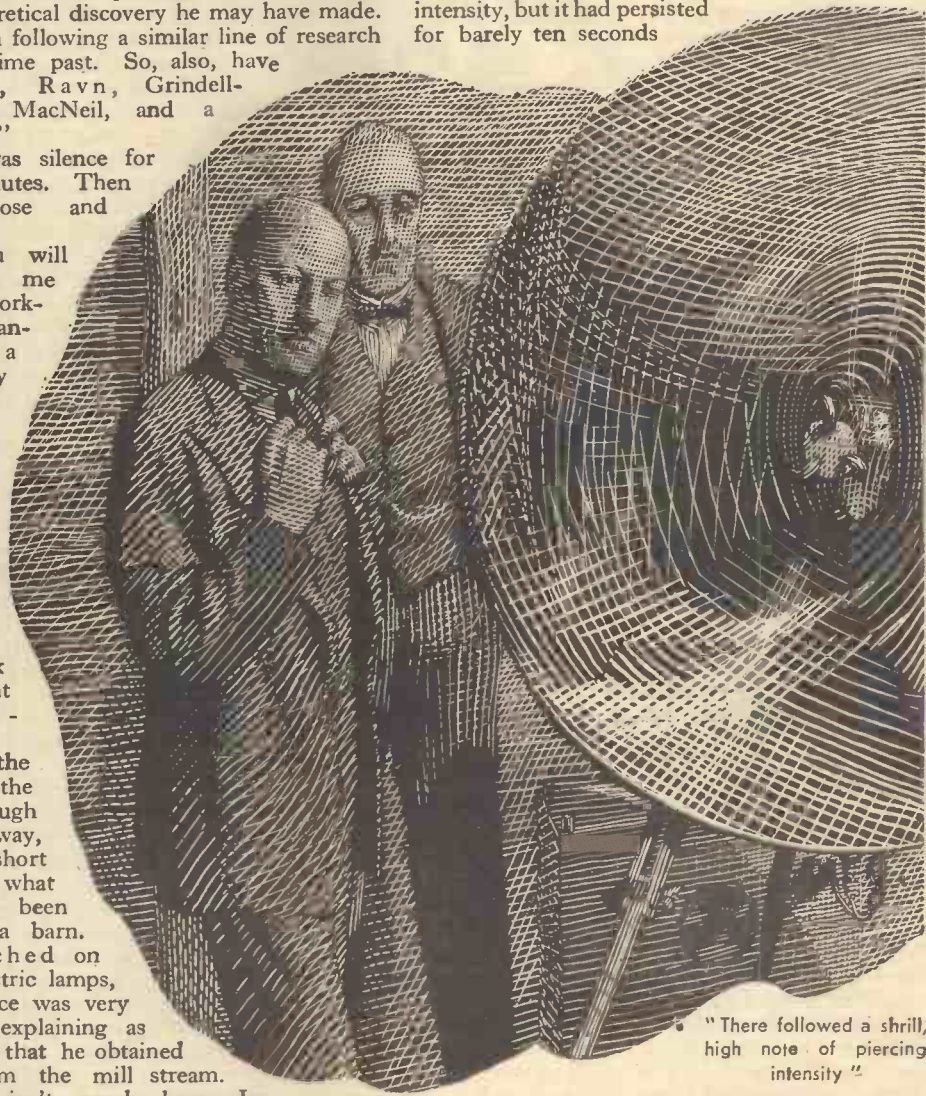
"Here is a wireless oscillator of the vacuum-tube type. By means of it I can produce any frequency I desire. Here is an L.F. amplifier, resistance-capacity type, but exceptionally powerful. And here," indicating a huge parabolic reflector about five feet in diameter, "is a loudspeaker the like of which you have never seen before. You will observe it has no diaphragm!"

Wallace crossed the floor to a similar parabolic

reflector mounted on an adjustable stand, facing the loudspeaker he had previously referred to. Selecting a small glass tumbler from a table close at hand, he placed it on a stand situated in the focal centre of the reflector.

Then, from a corner of the room in which was a particularly fine radio-gram, he chose a record, and threw a switch, explaining as he did so that it was connected to the speaker.

There followed a shrill, high note of piercing intensity, but it had persisted for barely ten seconds



"There followed a shrill, high note of piercing intensity."

when the glass tumbler in the reflector opposite resonated to the sound, gave a loud "ping," and was shattered into fragments.

"A simple case of mechanical resonance," observed Witherby dryly, and with some disappointment in his tone.

"Quite so," answered Wallace. "Now. What will happen to a similar glass if we start molecular resonance?"

"Molecular resonance! So far as I know, that is not possible."

"Watch!" said Wallace tersely.

He replaced the broken tumbler with another, and this time went up to the wireless oscillator, made sundry connexions to other units, and then set certain dials with meticulous care. This done, he threw a master switch, motioning his watchers to direct their attention to the glass tumbler as before.

This time no sound was produced, and the Professor arched his eyebrows, sensing a failure. But just as he was about to offer some comment, the glass vanished without a sound, and in its place lay a small mound of fine white dust!

Uttering an ejaculation of amazement, Witherby hurried over to the parabolic mirror in front of which the glass had stood only a minute before. Not a splinter of glass lay anywhere. The whole tumbler had been, without doubt, thoroughly and completely *disintegrated!*

"Amazing! Wonderful!" cried Witherby. "In all my experience I have never yet seen the like."

Wallace blushed with pleasure. "Oh! that is only a beginning," he said, "and represents my first success, to which I recently referred."

"But, with this experiment as a basis, I have adumbrated a theory upon which my whole scheme of research is now directed. All that is required is seemingly endless experiment and trial with different substances in turn.

They do not all act in the same way, I assure you. Some effects are entirely different, others so extremely dangerous that I am almost afraid to attempt them.

The danger is not so much to myself as that I may start a process that I cannot stop—"

"Damn it!" suddenly interpolated the Doctor. "It has started snowing at last. I feared it would come. You must get a move on, Witherby, if we are to get back home to-night. We shall be snow-bound!"

"How excessively annoying," objected Witherby. "Really, I wouldn't miss experiments like these for a king's ransom!"

"The Doctor is right, Professor," said Wallace. "I'm very sorry, but I have no accommodation for anyone but myself here. Otherwise I would gladly have asked you to stay the night."

"I can give you another half hour at the most, then," the Doctor reluctantly conceded. "If it is snowing like this down here, goodness only knows what it will be like going over the top of Trelawny Moors. It will be damned risky as it is."

Wallace assented. "It would certainly be very dangerous to attempt to cross the moors in the teeth of a blizzard such as this promises to be. Professor Witherby can come along at any time at his convenience for further demonstrations. Meanwhile, I suggest we go back to my living-room, and I will briefly outline the fundamental principles upon which my line of research is based. It will at least provide ample food for thought until our next meeting."

When they were again seated around Wallace's cosy fireplace, he continued: "Science has, as yet, not allotted any name to the field of research upon which I have been concentrating for the past three years. I call it 'silent sound,' and—"

"Ah!" broke in the Professor, "then that explains why no sound preceded your last experiment?"

"Yes. Actually, however, terrific sound waves were being propagated and projected upon the glass, which, had they been within the range of sonic frequency, would have absolutely deafened us.

"Probably few people are aware that supersonic frequencies exert any influence at all upon physical substances. Yet, as you have seen demonstrated, they can, and do—with amazing results. And this goes for all substances, whether solid, liquid, or gaseous. I can perhaps best describe my line of research by saying it refers to 'the creation, and propagation by radio methods, of supersonic frequencies, and the influence of such frequencies on the molecular structure of various substances.'

"As regards the supersonic frequencies I employ, it must be clearly understood that they are solely *physical*, longitudinal waves set up in air, water, wood, or other medium—not radio waves which are transverse and non-physical. When a sound wave, within the limits of audibility, is propagated in air, the molecules composing the air have their longitudinal orbits of vibration alternately slightly increased and decreased, but the molecules themselves retain and maintain their normal positions. Similarly with supersonic frequencies.

"Science believes that all substances are composed of molecules in a constant state of movement or vibration. It also believes that *Heat* is energy possessed by a body by virtue of the state of motion of the molecules of which it is composed.

"Consider what happens when sound waves are projected on to a body. We know, by a telephone diaphragm, that it is bombarded by millions of air molecules. This molecular movement is very slight—so small, perhaps, as to be only one-hundredth the diameter of the average molecule or 6.3 by 10⁻¹⁰ centimetres.

"If we take a piece of iron and beat it rapidly with a hammer the metal soon becomes warm. That is because some of the energy imparted to the hammer has been transferred to the molecules forming the iron; resulting in a 'speeding up' of its molecules. And we have seen, when the molecules of any body are 'speeded up,' heat is added to that body.

"By radio methods molecular frequencies can be created vastly greater than the frequencies within the limits of human audibility. Hence, it follows that if a physical substance is bombarded with air molecules, such as could be generated by a supersonic frequency, the impact of the air molecules is passed on to the molecules composing the body bombarded, and, by virtue of this bombardment, the movement of the molecules of that body may be accelerated. In other words, we have made the amazing discovery that the same 'speeding up' effect can thus be obtained as hitherto was only brought about by *The Addition of Heat.*"

"But surely," the Professor expostulated, "even granting such a theoretical rise in temperature, it would require prodigious sound waves to raise the temperature of a body even a fraction of a degree?"

"Admittedly. But that is because the frequencies hitherto employed have been nowhere near the natural molecular rate of frequency of the body bombarded. But when the bombarding frequency approximates to this natural molecular frequency, *Resonance* of the molecular movement results, and the effects of even a small amount of energy then become of incredible magnitude. You know, for instance, in the sonic range of frequencies, that even such a tiny force as the mere *Hum* of machinery, when it happens to resonate with the mechanical natural period of vibration of the

materials composing the building, may bring about the collapse of the entire building. This is merely an example of mechanical resonance. Molecular resonance, on account of its vastly greater frequency, has far greater powers.

"The natural molecular frequencies of most substances lie somewhere between 200,000 and 300,000 per second. Hence, if we create supersonic waves of this order, we are, in effect, bombarding the substance with air molecules similar in size to the molecules of the substance bombarded, and at a frequency approximating to the natural pendulum-like frequency of its molecules. When this bombardment is at *exactly* the same frequency, you obtain terrific resonance results.

"If, for instance, the substance thus bombarded is of a naturally inflammable nature, the rapid increase of heat thus generated causes it at once to burst into flames. I could to-day have set wood, oil, and other substances on fire, had time permitted. But should the substance be non-inflammable—glass, for example—the molecular frequencies are worked up and up, until they are forced to leave their natural orbital positions long before the rise in temperature of the substance as a whole is sufficient to make it incandesce. Consequently *Molecular Disintegration* results.

"So far, I have barely touched the fringe of the potentialities of these supersonic sound frequencies. Some of the effects are startling and amazing. Others are terrifying in their awful possibilities. They range from killing bacteria, dispersing colloidal solutions, and dispelling fog, to the destruction of human life, and the molecular disintegration of matter. I have even recently isolated a wave frequency which has all the characteristics of a *detonating* wave, but of far wider application. As you know, dynamite can be hammered, cut, and even set afire, without giving any indication of the vast *inherent* forces locked within. The key to the release of the terrific energy it contains lies in a molecular wave originated by firing a tiny fulminate cap. The belief has long been held that even a stone or a piece of metal might well contain similar inherent power potentialities if we only knew the secret key which would unlock them. I have found such a key, and I frankly confess I am almost afraid to use it. Only a few days ago I had an example of the awful forces it can release when I detonated water."

"Detonate water! Incredible!"

"If it is not too dark as you pass out, you will be able to see, just outside the window, a large pit about twelve feet across and four feet deep. Only a short time ago it consisted of a tiny pool of water of less than one pint. I was trying a frequency which I hoped would disintegrate a stone wall nearby, and quite accidentally deflected the projection on to the pool. As a

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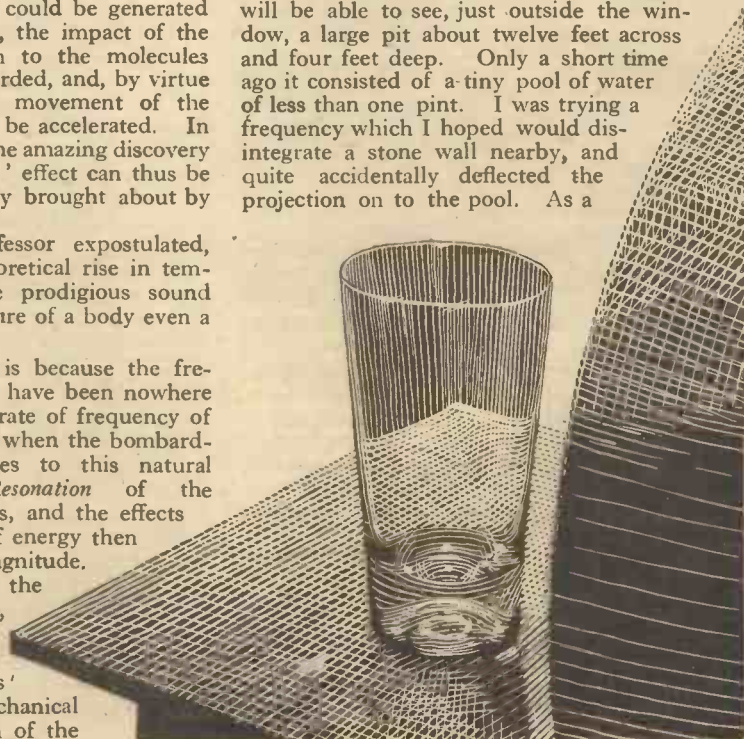
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consequence I obtained an effect like the explosion of a 4.5 shell! I can only imagine that the molecular disruption of water into oxygen and hydrogen—normally quite harmless—did not take place until the rise in temperature, also generated at the same time, in the molecules was sufficient to ignite the hydrogen. And since detonating substances in their turn create fresh detonating waves, I am wondering what might have happened had I projected the same frequency on to the ocean.”

“But I fail to see how such frequencies can be fatal to human life.”

“They are—doubly so. Not only do they coagulate the red corpuscles of blood and thereby cause death, as I have proved by tests on rats, but I can disintegrate every bone in the human body.”

“I tell you, Professor, that with such a weapon of war, placed in the hands of a powerful, humane country like England, she could dictate her own terms of Universal Peace to the whole world.”

“I can crash the biggest aerial fleet that any nation could ever possess, tens—aye, scores—of miles before they reached their objective; sink navies and submarines, and extirpate whole armies. I know all this sounds like fantastic nonsense to you, but I have thought out and planned everything. Naturally each of the great divisions of war requires separate plant and equipment; one would not use supersonic air frequencies against submarines, for example. I might mention that the same frequencies propagated in water have four times the range, and are far more devastating in their effects.”

“For aerial defence purposes I should utilise the big wireless transmitting stations like Rugby and Daventry. Conceive, if you can, the range and effect of 1,000 kilowatts of output energy of supersonic air molecular frequencies.”

“But no conceivable form of loudspeaker

could turn out either the frequencies or the power you would require. It is ridiculous and impossible.”

“Was, you mean, until I invented my form of loudspeaker to which I drew your attention. Obviously, no diaphragm type of speaker could serve, on account of the inertia factor. A crystal speaker would serve, so far as frequencies are concerned, but would be useless for power purposes. My speaker, an adaptation of the original Reiss telephone, operates on the principle that a bar of iron changes its physical dimensions when magnetised—it vibrates *lengthwise* with the rhythm of the alternating current sent through it, produced by the surrounding coils, and has all the virtues of a diaphragm with none of its limitations. I can project any desired frequency and employ any desired power. True, the changes in length are microscopical, just as those of an ordinary diaphragm, but it must be recollected that the energy value of any sound wave varies not only with the square of the amplitude, but also with the square of the frequency. And by using supersonic frequencies twenty to thirty times as great as any hitherto produced the energy value becomes 400 to 900 times as great—”

“Time is up! Come along, Witherby,” called the Doctor, who, from pacing the room impatiently, had gone out to start up his engine.

Witherby was hustled into the waiting car. He just had time to say:—

“I will come along again at the earliest possible moment. Then if your further demonstrations are satisfactory, I will at once lay the whole scheme before the Government.” And the car sped away in the driving snow.

But alas! They never met again.

Extract from the “Cornwall Daily Gazette” of December 23, 1936:—

BLIZZARD FATALITIES

“The terrific blizzard of the past week has left a trail of death and disaster in its wake. A par-

ticularly tragic case occurred on Trelawny Moors, about five miles from Port Wynne, where Dr. Palow, the well-known and greatly respected medical officer of the district, lost his life. He had been paying a visit to Trewarmet Mill to see one of his patients. He appears to have started out from Port Wynne in ample time to have returned before the snow started, but for some unknown reason was delayed on his return journey. He was accompanied by his friend, Professor Witherby. It would seem that their car, an old one, was not equal to the task of facing the blizzard which overtook them. The dead bodies of both men were subsequently found about half a mile away from the abandoned car. By an irony of fate, the patient for whom these two valuable lives were sacrificed died the same night of a sudden heart attack.”

THE VOICE

(Continued from page 3)

Mead's heart had not been as sound as he had thought it. He was dead.

“I'm glad to see you looking so well again Professor,” murmured the young broadcasting official. “A sad affair, that butler of yours dying just as he heard your voice on the wireless!”

Professor Malling nodded.

“A very sad affair,” he agreed, and there was a strange expression in his eyes as he spoke. “He must have died just as I recovered consciousness in my study after one of my heart attacks.”

“It was a good thing I got the recording department to take a record of your rehearsal speech,” smiled the official.

Professor Enderby Malling nodded again, a queer, reflective look in his kindly old eyes.

“Tasting the Pudding” (CONTINUED)

borg Castle, from 5 to 5.30 p.m. During the twenty minutes that follow a young lady will take us for a pleasant little trip from Iceland, via England and Germany, to Palestine.

The Boxing Day portion will be served hot: Louis Preil and his dance orchestra will play. He starts at 7.40 p.m., and those who like the flavour he brings will be well supplied with it by the dance orchestras of various restaurants until 1 a.m.

This pudding will be on the Danish menu till Saturday evening, at the end of which comes a delicious mince-pie of dance music, sketches, gramophone records, and all kinds of songs sung by six very young and very modern boys and girls.

THE FOUR SCANDINAVIAN COUNTRIES, including Finland, will have a common programme broadcast by all the stations, on Christmas Eve, at 6.30 p.m., and at 8 p.m. the Norwegian transmitters will relay a Christmas-tree festival from the Norwegian Seamen's Church in London. At 8.30 Oslo and the Norwegian short-wave transmitter at Jeløy, and the Dutch short-wave station at Eindhoven will transmit, until far into the night, personal greetings, sent in person or by the announcer, from their relatives at home to all countrymen in the Norwegian whaling fleet in the South Seas.

CHRISTMAS, or WEIHNACHTEN, as it is called in Germany, is a very highly-esteemed festival in that country. As the German name implies (*Weihen*, to devote), it has little to do with that jollity with which it is celebrated in Britain.

Here is a first plum: on Sunday, the 22nd, all German stations will give listeners a concert of compositions by Richard Trunk, who will conduct them himself. Deutschlandsender provides relief at the same time, 8 p.m., in the shape of a programme called “Our Listener's Letter to Santa Claus,” in which Barnabas von Geczý and his orchestra will play request numbers.

Things become very *weihvoll* (devotional) on Christmas Eve. This day is perhaps even more important in Germany than the 25th. “Music and Happy Hearts” is the title of Deutschlandsender's 7 p.m. contribution. All German stations, including all the short-wave transmitters, will broadcast the now traditional Christmas address by the Führer's Deputy, Herr Hess. This is the star broadcast in German eyes. Deutschlandsender has a good item at 10 p.m.: “Nobody shall feel lonely to-night.”

On Christmas Day operas are popular, and Munich will broadcast the *Mastersingers*, with Furtwängler as conductor. Stuttgart has a gala opera evening, and so has the Deutschlandsender. After all this uplift the stations unbend surprisingly in a relay from Cologne at 9.30 p.m., entitled “Night Music and Dance,” and Deutschlandsender further contributes to this by dance music (new, non-“nigger” type) at 10 p.m.

On Boxing Day Stuttgart will go over to New York for U.S.A. Military Band at 9.30, to close the day with a popular programme at 10 p.m. from Berlin, which station relays Puccini's *Turandot* at 7 p.m.

AUSTRIA HAS THE GREAT ADVANTAGE over many other countries of always looking “Christ-

massy” at Christmas time; plenty of snow and ice, and fir trees laden with snow. The bell-ringing which will be broadcast on Christmas Eve will begin at the idyllic village of Alpl, which Rosegger made famous, and where there is a school named after him, in which the children will receive their gifts from a Christmas tree just as the Ravag microphone happens to “call in.” Other bell-ringing and Christmas celebration broadcasts will be sent world-wide from the Haydn church at Eisenstadt, the Bruckner Cathedral at St. Florian, the Palace Church at Innsbruck, Salzburg Cathedral, the parish church of Bregenz, and from Graz, Vienna, and Carinthia.

On Christmas Day there is to be a glorious “pudding” of stories, songs, and jollities broadcast from Bisamberg. Then there will be relays from the training slopes of the Austrian Olympic Ski Team on the Hoch Tor mountain, and many magnificent concerts during Christmas week. Cardinal Innitzer will address Austrians in all countries of the world, and there will be songs of Austria, grave and gay, old and new, sung by a choir of boys at Moedling, near Vienna.

POLSKIE RADIO BROADCASTS from Poznań, at 3.30 p.m. December 24, a concert of Christmas songs called “Pastoraliki,” and at 4 p.m. Katowice broadcasts a gay programme followed by traditional songs known as “Kolendy.”

At 9 p.m. on December 24 Warsaw and other stations broadcast “Kolendy” songs.

At 9 a.m., December 25, Poznań relays a special service from Poznań Cathedral Church. Each transmitter in Poland will broadcast programmes of local character. Lwów and Cracow announce light programmes consisting of Polish folk songs and dances.

Changing Asia

by the Sheikh Mirza Abdullah

As the man from the minaret concluded the attestation that "there is no God but one God," the hush in the public square of Bokhara—the proud capital of Central Asia—was broken.

Outriders shouted at venerable-looking gentlemen to make way: "Step aside, step aside," they commanded, in Turki language. "Give respect to the mighty ruler, the Amir of Bokhara, your lord and our lord, the defender of the faith!"

The alert Kerghiz of the Steppes, the dreamy-eyed Uzbeks from the four corners of Central Asia, the murmuring Tajiks, even burly Afghan and fat Hindu money-lenders, all the way from Delhi, jumped to their feet to let the Juloos of the lord of all Turkestan pass to prayer.

First came the Akcha Bashi, riding at the head of a hundred Turkomans cavalry, then the sword-bearing Akhoons on foot, four score or more, followed by the high priest of the shrines of Hazrat Bahauddin; and in the quietness which had fallen upon the respectful onlookers I could hear the bells, jingling from a charger's neck, echo and re-echo behind the walls of the great mosque as it blended with the deep-toned prayers of the Amir's bodyguards.



Instrumentalist broadcasting in a Turkestan studio

Anon, the grey mare rounded the corner, bearing a man in a large, white, round turban, and covered by a loose coat of shimmering green. Two long-robed and bare-footed servants ran beside the monarch's horse, holding on to the stirrups. Frequently his right hand, covered up as it was to the tips of the fingers by a tapering sleeve, rose and touched his breast in acknowledgment of the salutation of his subjects by the way.

Men bent low as he passed.

Thus I saw it all twenty years ago, before Soviet régime had sway over the golden Samarkand.

And now? What once were the Khanaks of Bokhara are now the Soviet Republics of Uzbekistans, Tajistan, Turkomanistan, and even the nomad tribes of the Steppes are to have a Soviet Republic of their own. The man whose father rode in majestic style through the crowded bazaars of Bokhara, or Samarkand, is, of course, a refugee in Afghanistan—or, at least, was living fairly comfortably at Qillah Murad, near Kabul, till recently.

At no time would you see the colour of the

new and the old in such sharp contrast, in Bokhara, as on the eve of the opening of the local Soviet.

Elderly men, wearing long, striped robes of many colours, ride on donkeys half their own size; they dig into the sides of their mounts with their shoeless feet. Mournful-looking Tajiks with plush-cloth skull-caps sell slices of melons to passers-by, and the sweet-seller weighs out a pound of flaked mulberry toffee, and young and old sip innumerable cups of tea in the half light of the smoke-laden atmosphere of *Char-Khana*, or the wayside teashop.

Presently, the holy "town crier" tears his way through the crowd. He is differently dressed; no long coat or skull-cap, but, instead, a white shirt tied at the waist, a red tie, and long boots make him conspicuous. He is leading the procession of the members of the Soviet to their Parliament house.

It is a longish room of purely Asiatic style where they hold their meetings. On the dais sit the President and other deputies in charge of Government departments. The Turki language is being used, and deliberations are frequently withheld till it is all translated into Russian, so that some eighty-odd members—"the Europeans," consisting of Jews and Russians—can participate. At the back of the President's chair hang inscriptions exhorting the workers of the world to unite for revolution; a bust of Lenin peeps behind the many folds of crimson silk, whilst red electric light plays upon the members of the executive. This remarkable awakening which has been wrought among a people who seemed to be of an unprogressive temperament is very largely owing to the introduction of broadcasting.

When, in 1927, a radio station was started in Turkestan, the people in Tashkent thought it to be the visitation of some great evil-force. I well remember seeing almost half of the village of Doshambay betake itself to the adjoining mulberry avenue, when the voice of the wireless receiver boomed out the hour of six as men were thronging to the mosques for evening prayer.

Slowly, however, knowledge came to them of this "white magic," and when it was known that it really was a harmless device of science, the rush for receivers was so great that men rode on their ponies, even to Moscow, to request the installation of receivers in their Soviet Club. Demands grew so insistent that the authorities installed a broadcasting station at Tashkent, and also relay stations at Bokhara and Iskabad.

Recently, when I was in Central Asia, I saw in almost every little village, even in temporary encampments, wireless receivers, which receive the programme from Tashkent.

Taking advantage of this interest the Soviet Government deputed the work to the Department of Posts and Telegraphs at Moscow, which, in co-operation with the Ministry of Education, equips the Club radio sets, and also defrays all expenses.

As the bulk of the population is an agricultural one, and Moslem by faith, the programme does not generally start till after the last prayer of the day, which is 6 p.m. It begins with a short local news; then there is a concert of traditional type, for European music is not greatly liked by



A grandmother in Central Asia trying to find a station

listeners of Central Asia; next follows a brief talk on some agricultural, or local, historical, or geographical, topic; for the less-travelled Uzbeks know very little about their own country. The Turki language, of course, is used in this broadcast, and after an hour the same programme is repeated in the language of the Turkomans, and even in those of the Kerghiz of the Steppes, till they go to bed at eight. From 8 p.m. to 10 p.m. there is European news and Russian music, for there are thousands of European engineers, farmers, and workers scattered over the far-flung territories of Soviet Russia.

But catering for the needs of the Asiatic population is the chief aim of Turkestan broadcast. First there is the Government propagandist point of view. In practically all broadcasts a short discourse is included, which details the good effects of the present Socialist régime; and comparisons are made broadly between present-day conditions and those of Czarist times. Naturally the modern conditions are shown to be better in every way.

Even in the bed-side story for the children propaganda plays its part, as evinced by a fairy tale in which a child is related to have lost his way in a desert, till Lenin appears from behind a bush and leads the weeping boy to his parents.

Peasant boys are allowed to write to the broadcasting official; and their grievances against the local Soviets are anonymously broadcast. These, when "floating in the air," reach the ears of the whole village, and especially those of a wrong-doing, powerful village elder, and the wrong is soon righted.

Since nearly ninety-five per cent. of the population of Turkestan is still illiterate, local and other news is circulated very rapidly to the most remote parts of Soviet East—in extent nearly half of Asia. In like manner, the essential Government Orders from Moscow can be broadcast throughout the length and breadth of Russia the same day; in addition to the fulfilment of the desire of the authorities to give adult education to those who have neither inclination nor means and opportunities to strive after modern knowledge.

Broadcasting in Turkestan, therefore, is doing a considerable good to the people, as an educational agency as well as a social reformer; and, not least, it is providing the best possible instrument of the Government, cohesion of whose vast empire cannot be retained without some such binding factor.

More Howlers

BEFORE offering the reader a collection of titles on which to try his hand as translator, some recent howlers from foreign programme-papers may be presented to him as awful examples, whether of mistranslation or of misprints.

For example, "Les cavaliers de la garde (Sullivan)." Can't you see the Yeoman complete with his baggy trousers trying to ride a horse, and using his halberd as a lance? Or a nice double error, "Journée de Siegfried sur le Rhin," a day on the river (I hope in a canoe) instead of Wagner's journey to it. "Les Joyeux Fabricants," superb mistranslation of Coates's *Merrymakers*, has turned up again, too: you see it, I suppose? "Make" is *fabriquer*, so obviously "maker" is *fabricant*. We liked also the annoyed query, complete with question-mark, "Où ma caravane?"—Where has that cursed camel-driver got to?

Now and then the errors seem almost inspired: "Darkey's dreamling," with an excellent new portmanteau-word for a darling that you dream about; "Cindad encantada," a new version of Sinbad the Sailor; "Stage frifgt," which really sounds like it; "Pol Jones," a new brand of champagne on the lines of Pol Roger; "Singing a happy sonf" (Son 'f a what?); "Singe it way down," right to the roots, in fact; "Kiss, by kiss"—yes, by Jove! "The Coom's Patrol" ("Coom along"), with which compare "Einmal koomt der Tag"; "Love is a bable," the perfect compromise between babble and fable; "La petite Quacker (Monkton)"—a little duck, in fact; "Sabre and spars," a march for Army and Navy; and, by the same composer, a "Sousa-jpot pourri," which inevitably suggests jam-pot; "Ye twice

ten thousand dieties," where the dieticians disagree; "I see two lovers," keeping apparently an eye on each; Brahms's "Gradle Song," which looks like a condensation of "gravy-ladle"; "Little did i dream," poor little I; "Mon coeur est jour toi," but possibly reserved for someone else by night; "Un ballon in maschera," though how you could put a balloon into fancy-dress—perhaps as G.K.C.? Beethoven's unexpectedly up-to-date "Deux dances de contrat"—now perhaps someone

And some tests for Readers

will write dances for Auction-bridge as well; "Prim o'bacio," where the Spanish general gets an Irish ancestry; "Freut ech des Lebens," 'ech aye! "Dancing on a dine," a new version of singing for a supper; "Put on an odl pair of shoes"; "Nighs of gladriss," nearly neighs; "Two words Arlin my heart"; the Russian songs "Allò Verdi et Djiguiti"; "Les figues de l'horloge de Presdes," which took me some time to spot; and "Mithty la R'a rosa," or Pergolesi's "The groni che Nina," which took even longer.

There are some nice composers, too: "Spirime," as writer of "Nobody knows the troubles I've seen"; and "Orgueil de race" by "Wnihtg" (one wonders *what* race?); and "Cloches de monastère" by "Beuron,"

which looks all right until you realise it is really the name of the monastery.

But perhaps the most pleasing are "Scots wha' hae, air de psahme," and the "Chansons populaires anglaises—Old black Joe, Swannee River, My old Kentucky home." After this the fact that the Scottish station is invariably included under "Angleterre" hardly seems to matter.

And now some for the reader, not including such terrors as "Kaouranterrigha Marivonig," which is probably Breton, or untranslatable puns on well-known titles such as "Fauchés dans un coin" and "Le chat lent qui passe." Here are twenty—pick a dozen and see what you make of them, remembering that they are titles and that the correctness of spelling is not guaranteed:—

- Urlicht.
- Ich bin ans Meer der Liebe.
- Dando la alternativa.
- Sancunik.
- Wij brengen U.
- Au conservatoire des cinglés.
- Systeme D.
- Marche des réjouis-bontemps.
- Bummelpetrus.
- La java maousse.
- On en sue une?
- La última veronica.
- Conférence contradictoire.
- Pucha que va lindo.
- Ich steh' habt acht wenn meine Susi kommt.
- Duelo criollo.
- Weidmannsheil.
- La valse mariole.
- Piropos.
- Un torillard.

I shall await your efforts with interest, as I know the catches in the above titles.

R. R-II.



FROM THE DUD LETTER OFFICE

INTERVAL SIGNALS WITHOUT TEARS

SIR,—I am one of those unfortunate persons who invariably contrive to capture some foreign station when an interval signal is being broadcast; I am also tone-deaf, and hence cannot distinguish between Warsaw's "Polonaise in A major" and Ljubljana's "Cuckoo."

I now learn, however, that that eminent radio-physicist, Prof. Batts Innes-Belfry, has perfected his long-awaited system of Smellivision, and I am hopeful that ere long odours universally associated with the town or country whence they emanate will replace the audible interval signals.

Nobody then will fail to identify Cologne by the wafting of its celebrated *eau*, Athlone by its odour of Irish stew, Hilversum by the distinctive perfume of Hollands gin, and Paris by its pungent aroma of French polish.

Yours scententiously,

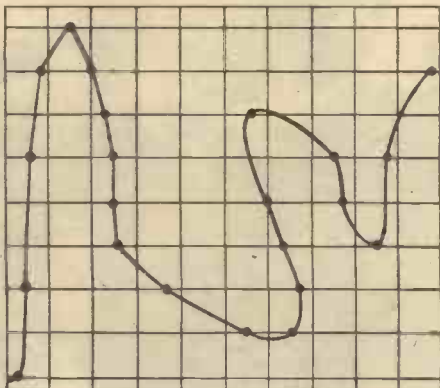
(Miss) EFFLUVIA SNIFFER.

"The Satchet," Smelton Smowbray.

A DELICIOUS TOMATO OMELET

SIR,—I have observed that you publish awfully jolly little black-and-white sketches, full of dear little squares and curves and other geometry. I regret to say that I haven't the groggiest notion what they're all about, but being a lover of squares and curves and things I have made so bold as to design one which should prove of

One over the
eight
Stratosphere
Plimsoll-mark
Chelsea (half-time)
Equator
Consols 2½%
Blood-heat
Line for drying
the wash
Sea-level



considerable interest to such of your readers as understand these things better than does

Yours, complete with graph,

ANÆSTHESIUS BILGEWATER, D.Sc., F.R.S.

[Non-technically-minded readers can use this graph equally well in connexion with the Potation Identification Panel furnished by "Inn-Vestigator," as illustrating the return half of the Sabbath morning's journey, the dots denoting inns *en route*.—Ed.]

THE PESSIMUM LOAD ?

SIR,—I was tickled to death to learn from a recent issue of WORLD-RADIO that one of those amusing formulæ which from time to time punctuate and enliven your technical pages, had been misprinted in the previous issue. Under the article entitled "The Optimum Load" appeared a formula, the chorus of which went something like this:—

$$O_k \times \left(\frac{SOS}{R_s + V_p} \right) = H_2SO_4$$

N.B.—H₂SO₄ (*alias* hydraulic acid) turns blue litmus red.

The amended formula said practically the same thing, but the orchestration was slightly different.

Well, my aunt, Miss Agatha Meadle, who was Senior Wrangler at Roedean in Dr. Jowett's day, has worked out both formulæ (to three places of Decibels), and informs me that the

Being some correspondence intended for the Editor of "World-Radio," but inadvertently delivered at the address of

ASHLEY STERNE

respective answers are: 1 lemon and 2 raspberries, neither of which has any effect whatever on blue litmus, though they both make excellent roughage for the "yaup," which is crossword-puzzle for the blue titmouse.

Is this a record?

Yours, with two vegetables and bread,

BARMION CRUMPETT (M.I.C.E., R.A.T.S.).

"Crackers," St. Nitwits.

NEW SCAMPS FOR OLD

SIR,—(Or may I say, "Dear Sir"?)—I would like cordially to thank your Mr. "Wireless Topics" Ion (by the way, is he one of the Berkshire Pig-Ions, or one of the Wanstead Flat-Ions?) for his most illuminating paragraph which appeared a few weeks ago entitled, "A New Trickle-Charger." I am looking forward to other contributions from his helpful pen.

Meanwhile, I feel sure he will be intrigued to know that we recently lost, through red-lead poisoning, our old plumber, Mr. Spigot (deeply respected, and no flowers by request), and have now got a new one, Mr. Gooseneck, who, after repairing a small leak in our bathroom waste-pipe the other day, had the effrontery to bung me in a bill for £1 7s. 6d. Instead of remitting a cheque for these piratical charges, I merely cut out and sent him Mr. Ion's glowing phrases in the hope that he will now move a considerable Amendment to his own Bill.

Yours pharmaceutically,

D. I. SPENSER, M.P.S.

(Brimstone-and-Treacle Charger).

Little Dripping, nr. Bath.

PUTTING THE "WAG"

IN WAGNER

SIR,—When in Zürich last month arranging, by request of the BBC, for a relay of the Semi-Finals of the Yodelling Championship, I heard a new anecdote of Wagner, showing how, despite his stolidity, he could upon occasion be very quick on the uptake. He was once approached by the famous basso, Herr Helloverau, who greatly wished to sing the exhausting and exhaustive part of "Wotan" in *The Ring* at a forthcoming Bayreuth Festival. "Do you think you can stay the course?" asked Wagner. "It's a very long rôle." "Well," said Helloverau, "I once sang the part of 'Escamillo' in *Carmen* three times in one day." Quoth Wagner: "Little man, you *did* have a Bizet day!"

How's that for a Good Pull-up?

Yours untruly,

"SPLENDIDE MENDAX."

Lye Green, nr. Sevenhoax.

"HEARTIEST CONGRATERS"

SIR,—By way of riposte to your disgruntled correspondent, "E. & O. E.," who appears to labour under the delusion that WORLD-RADIO is published solely for his convenience, please allow me to tender my heartiest congratters upon your much-improved and ingenious programme-arrangement. Suffer me, however, to make one small suggestion for even greater (if possible) improvement.

Being inherently lazy almost to the point of

general paralysis, and with a very strong objection to making any intelligent effort to isolate for myself the various Continental items I wish to hear, could you possibly contrive to insert in your pages a special hour-cum-station programme *just for me alone*? There are only a baker's half-dozen of items I ever want to hear, and hence, if you could conveniently arrange to publish each week a daily *précis* along the following lines, I would gratefully become a registered reader:—

SUNDAY, 12.18 p.m., Kharbarovsk: "Grandfather's Birthday" (*Brahms*)

MONDAY, 1.7 p.m., Katowice: "The Robin's Return" (*Beethoven*)

TUESDAY, 9.21 p.m., Dniepropetrovsk: "Pussy's Bedtime" (*Cherubini*)

WEDNESDAY, 6.34 p.m., Kootwijk: "Chopsticks" (*Palestrina*)

THURSDAY, 4.54 p.m., Helsinki: "Dollie's Bath" (*Bach*)

FRIDAY, 3.19 p.m., Moravská-Ostrava: "The Maiden's Prayer" (*Wagner*)

SATURDAY, 11.2 p.m., Trollhättan: "The Merry Peasant" (*Sibelius*)

Yours, in eager anticipation,

AVORY LACEY DE VILLE.

"The Cot," Much Slumber, Beds.

THIS IS WHICH STATION—THAT WAS!

OH, BOY!—Say, can any of your humdinger staff help a poor piker from Hoboken, N.J., who is giving little old England a quick once-over for the first time, to identify a station he hit last week on arriving in London? Here's the low-down: A boy's voice announcing "Pipers—chocklits—cigarettes," backed by a superhet loudspeaker crooning "Any more for Bournemouth? Hurry up there, lady, please. First stop Winchester." The station-signal registered red at first, but turned green later.

Now, I guess your paper's just berries if it can put me wise on this, and then I'll sure remain

Yours to my quicklime,

CYRUS X. HIRAM Q. ELMER Z. STICKELBACH.
Hotel Splitz, W.I.

[It can. We submitted the problem to our station expert, Mr. Teck Nicholl-Hitch, who unhesitatingly identifies it as Paddington.—Ed.]

SAFETY THIRST ?

SIR,—I have very kindly drawn up the following Potation Identification Panel in the fond hope that it will prove of some slight solace to the many beachcombers of the ether who, to whatever world-station they chance to tune in, invariably get let in either for "The Londonderry Air" or else (and worse) for a crooner in full song.

Yours helpfully,

"INN-VESTIGATOR."

POTATION IDENTIFICATION PANEL

PIGANDWISSE (STEEPLE TOTTERING)

FREQUENCY: About once every ten minutes during licensed hours; WAVELENGTH: The usual "long pull."

DISTANCE AND BEARING FROM LONDON: A Sabbath morning's journey; very jaunty, but a bit wobbly coming back.

CALL: "What's yours?"

INTERVAL SIGNAL: Whistled by the Landlord:—



Many men and women denouncers. Closes down with the words "Time, cads, please."

Charles ("Buddy") Rogers recalls some Memories of the Microphone

By the time this article appears in print I hope to be back home with my parents at Olathe, Kansas. Maintaining home contacts, for me, consists of messages to my folk during a broadcast; a hasty trip to Kansas twice or three times a year, and an annual attempt to spend Christmas there. Last year I was not so fortunate, for I arrived in England on Christmas Eve—a day, as you may remember, of thick fog—and almost immediately began work on my first British film, *Dance Band*.

The first few days of the New Year, I hope, will find me enjoying weather very different from that, for, on January 10, I begin an engagement at an hotel in Miami, Florida. It seems ironical that the production of the British film on which I have recently been busy—*Once in a Million*—has been held up owing to lack of sunshine, and now I am going to a place where only an occasional hurricane interrupts continuous fine weather! I shall probably broadcast from the hotel, although my engagement there is for only a short period, as I am due back in England in May to make another film.

Mention of broadcasting, with me, is a spur to memory—a reminder of the time when I threw away a broadcasting contract worth £16,000 just to see a football match.

It was while I was playing with my band at the World's Fair at Chicago. We were giving frequent auditions for various sponsors, and one important advertiser heard us two or three times. Ultimately, the agent asked me to arrange a special show for relay by land-line to the private office of the sponsor concerned on the following Saturday afternoon. It so happened that Kansas University, my *Alma Mater*, was playing its most important football game of the year on that day, and I had planned to fly the 500 miles to Kansas to see the match. I mentioned this idea to the agent.

"What?" he ejaculated. "Do you mean to say that with an \$80,000 radio contract waiting to be picked up you intend to go to a football match?"

We had only to play to clinch the contract; already, he argued, we were 99 per cent. "sold" to the sponsor. Nevertheless, I refused to do the audition. Consequently, being a loyal "Jayhawk"—i.e., an old student of Kansas University—cost me a very useful fee, and the job went to Guy Lombardo, one of our most popular broadcasting band leaders.

"When the Cat's Away . . ."

I did do a six months' series of broadcasts for one prominent commercial concern, during which occurred an incident that might be entitled "Making Hay" or "Strike While the Iron's Hot." Or even, if you like, "When the Cat's Away . . ." I was doing some film work in the East during the same period, and making the trip from Chicago to New York by air three times weekly. Weather conditions, one day, were too bad for me to leave New York, and I had the experience of listening to my band putting over the broadcast without me. One of the men in the band was given the job of announcing in my stead and, apparently, he had made up his mind to make the most of the chance. Anyway, during the whole thirty minutes of the broadcast, he mentioned my name only once, except that at the end of the programme, during the usual closing announcement, he again brought in my name—in *as sotto voce* a tone as he dared!

At this time of the year in America we get heavy falls of snow, the sight of which inevitably takes me back to the day when we broadcast to Commander Byrd at the South Pole. With us in this programme were Madame Schumann-Heinke, the famous *prima donna*, Phil Baker, and other well-known "stars" of U.S.A. broadcasting. The show was especially for the benefit of Byrd and his men, and they were able to tell us by wireless that reception had been perfect.

Drawing Comparisons

I have appeared twice before the British microphone, the most recent occasion being with Arthur Young and his Youngsters, and, of course, I have noticed many differences between our methods and yours in Great Britain. It was strange, for instance, to find that your

and I am told that the public for this kind of popular music is growing.

There is no doubt that the standard of playing among British musicians is high. I have just had the pleasure of playing for a period of two weeks in your variety theatres in front of Jack Hylton's band, and the experience has shown me that Hylton's reputation as a band leader is thoroughly well deserved. This arrangement was in the nature of a reciprocal gesture, Hylton's work in the United States being in the hands of the concern that also negotiates all engagements for me. The orchestra now being directed by Jack Hylton on the other side of the Atlantic, as you may know, was assembled over there, and Hylton has already said that he could not wish to be in charge of a finer set of musicians or men.

It may be of interest to record that I have no regular band. That is because when I am engaged in film work the studio producing the film is usually responsible for the arrangement of



"Buddy" Rogers and June Clyde in a scene from a recent British film, "Dance Band".

[By courtesy of Associated British Picture Corp., Ltd.]

popular dance bands, with the natural exception of Henry Hall and the BBC Dance Orchestra, broadcast about once a week only. Most of the first-class American outfits play at least once a day, and it is a common experience among leaders to be called up ten minutes before the hour and be asked to play a special hour's programme. As a result, quite a number of our bands are constantly rehearsing for emergency broadcasts.

Our constant aim in the States is to play dance music of the "romantic" type, but over here, I notice, many of your leaders favour the "hot" style of playing. Across the Atlantic, in my experience, "hot" bands have little meaning to the listener; the Negro combinations appeal only to the few. Every broadcasting band that I have heard in England, however, seems to show a tendency to emulate the styles of Duke Ellington, Don Redman, and Cab Calloway,

any musical angle demanded by the picture. Consequently, since I went seriously into vaudeville and broadcasting as a band leader, I have used several combinations of musicians.

Although I plan to make two, or perhaps three, films a year, I cannot say that my heart is really in screen work. Throughout the time that I was living in Hollywood I was longing to be back in the music game where I started, and although I shall make a picture in Hollywood next year, it will be only an interval in my other work. Broadcasting, in my opinion, is by far the biggest thing in American entertainment to-day, and the studio that makes the most insistent call is the one without a camera.

There is only one appropriate end to this article, of course—a happy Christmas to you all!

Jay Cootie tries his hand at ANSWERS TO CORRESPONDENTS

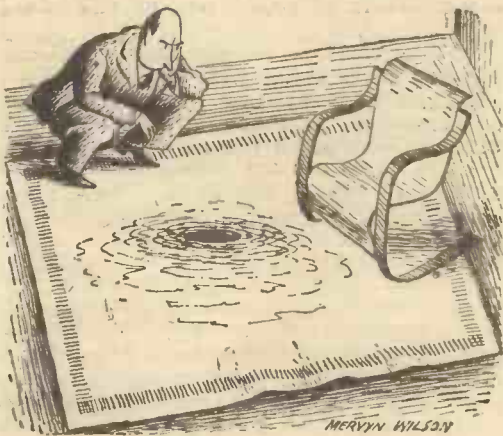
If you are at all interested in wireless, you are bound to encounter problems of which, without expert assistance, you cannot find a solution. Many publications place themselves at the disposal of their readers to help them in such matters, and, in fact, go far out of their way to answer almost any query sent to the Editor. But—and this is where I have fault to find—have you observed how highly technical are the replies? Have you noticed how curt, cold, and informal are the terms in which these treasured answers are couched? So have I; they lack the human touch. Now this is exactly where I come in—or hope to. With the promise that, if successful, I shall be engaged in a strictly advisory capacity, the Editor has kindly allowed me to dip into his voluminous mail-bag, at random, and pick out some of these knotty questions which are being put daily by puzzled readers. I have chosen some, to which I append my answers. May I ask you to note the subtle difference in the tone of these replies? Do you see in them that *je ne sais quoi* which, in every instance, must gladden the heart of the bamboozled tyro? It is that tactful and helpful human touch which instantly makes him realise how I am with him in his troubles and how sympathetically I share his worries. Just a few encouraging words which tend to prove that I am not a mere "robot," but a true friend in need—and deed. Anyway, here goes:

(1)

In the absence of my wife, children, and ma-in-law (whose house I am now minding) yesterday I inadvertently spilt the contents of my accumulator on the drawing-room carpet. It has gone all funny. Could you advise how to restore colours, or how the damage can be camouflaged?—(John N. Peck, Bastinado Avenue, Wapping, E.)

Answer:

As a married man myself, I feel deeply for you, John, because I fear that if you have not matriculated in weaving, knitting, tatting,



"It has gone all funny"

invisible mending, and the cross-stitch, you may find it a hard job to match the design of the carpet. My earnest advice would be to refrain from making such an attempt, but, in its stead, to try painting the floor-boards in an endeavour to disguise the bare spots. Do not, however, I beg, be too optimistic, although with an extra dose of luck—and a poor light—you might temporarily carry off the deception. If the boards have been eaten away by the acid—

eroded is, I believe, the correct crossword term—the job must be tackled from a different angle. I suggest that you cut out a hole three feet square, and install therein a kitchen lift. Or how about a coal-chute? Take a large Abyssinian egg-box—make sure it is Abyssinian—and three-pennyworth of tenpenny nails. However, all things considered, as the accident took place in your mother-in-law's house, why worry?

(2)

My garden is 18ft. 9in. long, and my aerial 97ft. long and 40ft. high; it is attached at one end to the roof and at the other to a tall poplar. When the wind blows, the aerial sways and I mix up National and Regional. When Henry Hall's Dance Band plays the house rocks. How can I alter the wireless set to separate them?—(I. R. Purchase, Bella Vista, Jerrybuilt Avenue, N.W.108.)

Answer:

Your problem has kept me awake many nights, as I have received similar letters from your new district. After consultation with my technical staff, I have decided that the matter can be dealt with in three different ways: (1) suppress Henry Hall; (2) displace the poplar; (3) transfer the house to another site. Perhaps, however, after mature thought, it may be found possible to strike a happy medium. Should the swaying of the house synchronise with that of the aerial, poplar, and dance-band leader, stay each, in turn, at all corners. If, when the wind blows fiercely, the roof should be carried away, wherever it happens to fall, dig the house in underneath it. This method is easier than to erect a new aerial or to displace the poplar. A common domestic coal shovel will be found useful for the purpose, but if a permanent job is desired, a dinky entrenching tool can be purchased for 9d. I cannot recall its name, but any ex-Service man will willingly tell you what he termed it. Consult our advertisement columns and let me know how you get on.

(3)

Last night when Father, Mother, Uncle, Grandfather, and I lifted the portable set off the piano to put it on the whatnot, we dropped it and three knobs fell off. As we would like to hear Micky Mouse's Party on Aunt Jane's birthday, what are we to do, and oblige. P.S.—Can we stick it and where?—(Lou Style, 382, Nuts Avenue, Hanwell.)

Answer:

(a) You would have helped me considerably had you enclosed a blue-print in your letter, as it is not quite clear to me whether the knobs were on the set, whatnot, piano, or Aunt Jane; but, in any case, I would not stick it. However, the receiver, in its present state, can now be converted into a most useful accessory. Rip out the inside of the portable, leaving the metal screening box intact. Some of the smaller components can be extracted by means of a lobster pick, if no other tool is available. After disambowelling the case, cover the outside with a jazz-pattern wallpaper, and use it when hiking as a picnic hamper. The metal screening box—if the set possesses one—should keep ham

sandwiches, sausage rolls, shrimps, and bananas delightfully fresh. By the way, would it not have been easier to lift the piano off the portable? (b) No, notwithstanding this clever conversion, you must still keep up the weekly payments.

(4)

Three weeks ago I bought a battery three-valve set, but I don't want to hear talks. The overture to William Tell, Colonel Bogey, Flying Trapeze, and other classical music is good enough for me. Please let me have a circus for an eliminator to cut out talks.—(Mrs. Adelaide I. Brow, Little Stewcombe-on-Maze.)



"Please let me have a circus!!! to cut out talks"

Answer:

I am delighted to hear from you again. Except in the Piano Department, for 3d. in any of the well-known sixpenny stores—you need not pay more—you can purchase a small switch which, when pushed in—or is it pulled out?—ensures complete silence. Watch the programme, and when you hear a talk, put the lever into reverse, as it were. The acquisition of an eliminator would be waste of money, as such an accessory can only cope with alternating or direct, but not with hot air, currents. When you think of buying a radio-gramophone,

write to me again.

(5)

When twiddling the dials last night I heard two stations; one of which wobbled like a jelly, the other was also a foreign language, and I thought the announcer said *Chin Chin*. Which stations were that?—(Inquisitive, Wigan.)

Answer:

The first was undoubtedly the new Swiss transmitter Radio Mont Blanc Mange, possibly testing. From the copious details given, I suggest that the second station was Chinese, but the correct call would be "S'Pekin Speakin'." Now ask me a difficult one.

Would-be Author (W.1): Much as I would like to accept your contribution, I am afraid that it is too fantastic for this journal. Your story starting: *Once upon a time a man bought a wireless set and paid cash for it savours too much of the incredible.*

RESULT OF PRIZE COMPETITION

Readers will recall my offer of £1 or a radio-gram, at winner's option, for the best essay of not more than 250 words on Broadcasting. Of the 36,423 entries, I have selected the following, although the spelling, in many places, is more euphonious than accurate:—

Radio is a grate thing you can here music and torks and komik chaps, and orl kinds of amusements such as Micky Mice and other serius plays. My daddy made a big wireless and it took him a weke and my ma went for him for staying up late every nite and he swetted pints over it. Postscript: I've ritten down 57 words and daddy sed the uthor 193 wen the set woodnt work but i cant spell them orl.

And there you are. I must leave the verdict to you; it is your decision which should influence the Editor. I am entirely in your hands.

Fellow-Passengers

By A. J. PETCH

As the train gathered speed and clattered over the points away from the great London terminus, I cursed the delay which had left me with no time to buy a paper. The run to Barford—even by the 10.15 through train, which I had just managed to catch—is dull at all times, but especially tiresome if you have made the trip a score of times before. And I had not even a paper!

There was only one other passenger in the compartment—the man sitting in the window-seat opposite. He was reading a newspaper, and I could see only a thatch of thick grey hair over its top. With a despairing feeling of boredom I gazed at the back of his paper. This was going to be a desperately dull journey, I thought.

Then, to my relief, my fellow passenger lowered his paper and looked across at me with the half-quizzical gaze of a man about to enter into conversation with a total stranger. But this feeling of relief turned to one of astonishment at his first words.

"Do you believe in witchcraft?" he asked, and without waiting for a reply went on: "Oh, I don't mean devil worship, voodooism, Satanic rights on Walpurgis Eve, and so on, but the everyday kind of sorcery that can happen to you or your neighbour—the sort of thing, in fact, which has happened to me!"

Before I could make a suitable reply to these strange words, he continued, a half smile softening his drawn and rather severe features: "Will you permit me to tell you a story?"

There was a subtle fascination in his voice and manner. If he was a madman he seemed a reasonably mild-mannered one; so I murmured a few words of encouragement, and he went on: "The shop was situated somewhere in that melancholy region north of King's Cross station. How I ever came upon it I do not know. Certainly I never found it again—nor even the drab street in which it lurked. You would not think a shop could lurk, would you? Most shops don't. They stick out their window displays like much-decorated chests, as if to say: 'Here I am—come and admire me!' But not this shop. It lurked there in its squalid backwater of a street, as if lying in ambush.

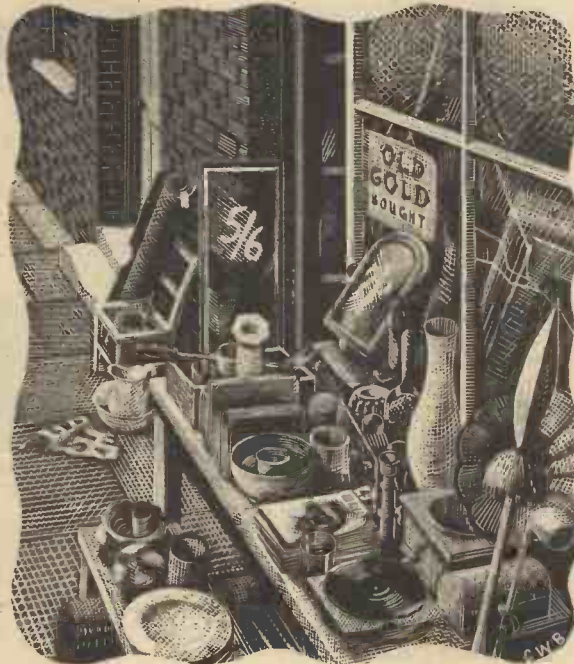
"When I came upon the shop I was making one of my periodic prowls about London in search of colour. You see, I am 'Cockaigne' in the *Evening Clarion*, and my job is to ferret out interesting facts and semi-fictions about the Metropolis and serve them up in a stickful of type every Tuesday and Thursday. Of course, I know my London pretty well. I have to. But the labyrinths off the Caledonian Road have claimed many victims, and the December day was closing into a grey dusk when I discovered myself to be completely lost. Of course, I was much too pigheaded to admit myself beaten and find someone to put me on the right road. Instead, I quickened my pace and marched and counter-marched, up one drab street, down another, through squalid alleys, and into baffling cul-de-sacs. Dusk had deepened into evening when I found myself walking down the street of the shop.

"I can remember nothing about the street except its similarity to a thousand other such soul-destroying thoroughfares—the same decaying house-fronts, the same rows of dirty windows, with dirty wisps of lace curtains inside them, the same rows of doors with the paint peeling off—in fact, the street was the personification of the misery-stricken spirit of

poorer London. Except for one thing—the shop!

"Its unshaded electric lamp glowing dim and yellow through the dusty window was the first sign of life and industry I had seen in the whole dismal length of the street. Acting upon a sudden impulse, I made towards it, resolved in desperation to inquire my way out of the sordid neighbourhood.

"As the door opened under my hand, a bell tinkled—sounding shrill and abrupt in the silence. I walked to the counter. In the feeble light of the solitary lamp the place seemed full of half-revealed chaos. While waiting for some-



"It lurked there in its squalid backwater...."

one to answer the bell I stared curiously around me. Books, old clothes, chipped pieces of china, broken picture frames, and a motley array of other odds and ends lay everywhere, on floor and shelves and counter, in piles and untidy bundles. And over everything lay dust—a veil which toned down all colours into a soft greyness.

"And then I saw the set. It stood on a small table—a sleek and shining pattern of efficiency amid the dust and rubbish which filled the room. It resembled the ultra-modern types of all-mains sets: a gleaming black ebony case, with bands of some white metal at the edges. But with quickening interest I discovered that it was unlike any other set I had ever seen. Instead of the usual cloth stretched taut across the mouth of the loudspeaker, it had a square of what appeared to be silica set into its face. And where were the knobs for tuning and volume control? Could that large square of silica be the dial? And, if so, where was the loudspeaker? In the dim light I bent closer to examine this strange set.

"Suddenly a dry little cough shattered the silence of the room. I turned quickly and saw a queer little man standing almost at my very side—the strangest little man I had ever set eyes on. He was scarcely five feet in height, with a completely bald and dome-like head, across which the skin stretched like dry and dusty yellow parchment. From behind the thick lenses of a pair of spectacles the bright and faintly sardonic gleam of his eyes held mine.

"So you find my little apparatus interesting,

eh!" said the little man. His voice had a curiously flat and precise tone, as if he seldom spoke. I felt tongue-tied, and before I could answer, he went on:—

"Yes, it is an interesting apparatus—even more interesting than you seem to find it. You will see none like it anywhere. And in it you can see everything!" He patted its smooth ebony flank with a gesture of pride.

"Suddenly I knew what that square of silica was there for. 'Of course—a television set! What make is it?'

"The little man's parchment features cracked into a smile. His eyes gleamed mischievously behind the thick lenses.

"Not what you know by a television set, my friend. It is my own make—and if you would like a name for it, a suitable one would be Destinax."

"Destinax?" I echoed.

"Yes. You see, on this little apparatus you can tune in to Destiny. In it you can see your future—your fate—the triumphs that will come to you—and the tragedies."

"Cranks I had met before, of all sorts and conditions. But this little wizened apparition of a man must surely be the maddest of them all. My disbelief and half-veiled contempt must have appeared on my face, for his bloodless lips tightened to a thin, taut line, his eyes set in angry pinpoints of light.

"You do not believe me, eh? You think I am a madman? Well, I will show you, my friend. Have you the courage to look into my Destinax? Oh, do not smile! It takes courage to face one's future—to know to-day what will happen to-morrow!"

"Though I still felt convinced that I was dealing with a maniac—just as you, perhaps, feel now—I felt I had better humour him, just as you have humoured me. I was, too, interested in the strange appearance of the set, and curious to see whether it would function in any way at all, visual or otherwise. The little man brought up a small stool and set it before the apparatus. At his bidding I sat down on it, directly facing the square of silica, so that my eyes were about nine inches from its filmy surface. The little man now went behind the set. I could not see what he was doing, but he was obviously busy about something. Then, with a little grunt of satisfaction, he straightened up and looked at me.

"You will look straight at the reflector surface you see before you for five minutes. Then you will begin to see. It will help if you concentrate on somebody or something with whom or with which you are very familiar."

There was a peculiar seriousness about the little man's voice. For the first time I felt rather frightened. Swiftly the strange happenings of the afternoon flashed through my mind: the weary tramp through lost and nameless streets, this squalid little back-water of a shop in which I was sitting, above all, the strangeness of the little man himself. But as quickly my fright gave way to resignation. I would see the thing through quickly—call this little man's bluff, and get out of the place. At any rate, I would give his 'Destinax' a chance to work. I gazed at the filmy surface and waited.

"My thoughts began to wander as the faint patterns on the surface became a misty blur.

"Suddenly I noticed a faint glow in the filmy surface—a peculiar greenish light which steadily grew stronger. My interest now fully aroused, I gazed steadily at this strange square. Now it seemed alive with light and colour—pulsating and billowing like a colourful smoke cloud. Fascinated, I watched the strange and restless movement. Now the clouds began to form themselves into shapes, which in turn grew

(Continued in col. 3, page 15)



R.126

'Tells you in time the time to recharge'

Exide

'INDICATOR' RADIO BATTERY

'Still keeps going when the rest have stopped'

DTG-C, 20 amp. hrs., 5/-. DFG-C, 45 amp. hrs., 9/-. DMG-C, 70 amp. hrs., 12/-. DHG-C, 100 amp. hrs., 15/6.

For wireless H.T. get

Drydex

the Exide dry battery

Obtainable from Exide Service Stations and all reputable dealers.
Manchester. Branches : London, Manchester, Birmingham, Bristol, Glasgow, Dublin and Belfast.

EXIDE BATTERIES, Exide Works, Clifton Junction, near

Viâ Ether

Christmas on the Continent

CONTINENTAL Christmas celebrations differ widely in many instances from those in this country. Christmas Eve and Christmas morning, especially, are celebrated in a spirit at once solemn and religious. The serene atmosphere prevailing in every home, be it ever so humble, the expectancy of the children as they gather round the Christmas-tree, the joy and surprise with which they receive their presents, the singing of the Christmas melodies—these are the keynote of Christmas throughout most of Europe. Celebrations by the Church are universal, too. Midnight Mass and other services are held in many countries, and, as in past years, many stations will again relay some of these services.

* * *

"Stille-Nacht . . ."

The first part of the Christmas Eve programme of the Berlin station—from 5.0-7.0 p.m.—consists of music about the "Stille Nacht," and I have no doubt we shall hear once again the tune which is invariably included in every German and Austrian Christmas music programme, and which I consider to be one of the most beautiful of melodies. I refer to the song, "Stille Nacht, heilige Nacht." The history of the song is an interesting one. Josef Gruber, a teacher and organist in an Austrian Alpine village, was asked on the morning of December 24, 1818, to set to music a poem which the village priest had written. At Midnight Mass the same day "Stille Nacht, heilige Nacht" was sung for the first time, Gruber and the priest singing the two solos. Soon the song found its way into Tyrol. Singing Tyrolese brought it into Germany, and from thence it became known in the farthest corners of the earth. It has remained a folk-song in the truest sense of the word. Originally written for two voices, its appeal is even greater when sung in harmony. It is a melody of great simplicity and exquisite beauty.

* * *

A Belgian Christmas Oratorio

At 11.15 p.m. on Christmas Eve Brussels No. 1 is to broadcast a new oratorio, *The Story of Christmas*, by a young Belgian composer, Michel Brusselmans. The text, which is based on quotations from the Scriptures, is written by M. André Guéry, an official of the I.N.R. Verses of the Old Testament, taken from the books of Isaiah, Jeremiah, and Micah, constitute the introduction to the story itself. These prophecies announce the birth of the Prince of the Peace. Then follow texts chosen from the Gospels of St. Luke and St. Matthew, and its final chorus is the message of the Angels that "Peace on the Earth, good will toward men" will predominate and triumph. In this important work on which he has been engaged for eight months, Michel Brusselmans has used a simple and straightforward style, which renders it easily understood by everybody. The first part of the score, illustrating the prophecies, is treated in a powerful and vigorous manner, contrasting with the serenity of the second part. The work will be presented in the Conservatoire of Brussels by the Symphony Orchestra and Choirs of the I.N.R., and well-known soloists.

ETHERVIATOR.

NEWS FROM ABROAD

(From our Correspondents)

U.S.A. CAR-RADIO CONTROVERSY

CONSIDERABLE opposition has been aroused among American wireless manufacturers by a proposal now under consideration in St. Louis, Missouri, to ban receiving sets in cars. The proposal, which is part of a traffic safety campaign, is sponsored by the St. Louis Police Commissioner, and would make it illegal to operate a receiver in vehicles travelling on public highways. A fine of not less than £1 (approximately) and not more than £100 would be imposed for violations of the proposed law, the contention being that car-radio diverts the attention of drivers and causes accidents.

That assumption, the vice-chairman of the American Radio Manufacturers' Association has declared, is erroneous. He asserts that, on the contrary, official investigation has proved that such listening is a safety factor, preventing accidents by keeping drivers more alert and reducing driving speed. It is also pointed out that, despite the widespread use of car-radio, there is no record of a single accident anywhere being attributable to it.

A similar ordinance was introduced last year in the legislature of Connecticut, but was defeated in committee.

WORLD-RADIO'S Washington Correspondent reports that during 1934 750,000 such sets, valued at nearly £10 each, were sold—twenty times the number marketed in 1930. Many of the new cars recently displayed in New York City are equipped with receiving sets, and even though many motorists still feel that listening distracts the driver's attention, it is confidently expected that a million such sets will be sold during 1935.

I.N.R. Alters Programme Times

In accordance with the announcement by the Belgian Minister of Posts, Telegraphs, and Telephones in his speech at the laying of the foundation stone of the Belgian Broadcasting House, the Sunday transmissions of the two Brussels stations are now continuous from 6.37 a.m. to midnight. Saturday broadcasts will shortly be continuous from noon to midnight. In addition, some alterations have been made to the morning transmissions, these now taking place from 6.37 to 9 a.m. Belgium's morning programmes include two gymnastic courses and two News Bulletins, with light music in the intervals. News Bulletins are given at 7.25 and 8.25 a.m. from each station.

Königs Wusterhausen's Civic Status

Königs Wusterhausen, the birth-place of German broadcasting, was created a town on December 1. About twenty-five miles from Berlin, it was the site of the Deutschlandsender station until that transmitter was removed to Zeesen, a small village about a mile away which is also the site of the German short-wave transmitters.

Proposed Scheme for Indian Service

A somewhat keen controversial discussion has begun in India as to whether the broadcasting services are to provide programmes of common interest from centres of importance, or whether special provision should be made to meet the needs of the rural population. Lt.-Col. H. R. Hardinge, who is touring India as a representative of the Indian Village Welfare Association, is conducting a campaign to prevent rural interests being subordinated to those of town and city dwellers. He has interviewed the Viceroy of India and Sir Frank Noyce, the Minister for Broadcasting, and as a result of

these talks a middle course has been found. It is expected that, to begin with, Bombay, Calcutta, Delhi, and Madras will have two transmitters each—one a small transmitter to cover the city, and the other a powerful transmitter to serve the vast rural areas of each province. The advantage of this plan is that it will enable progress to be made within the budgeted grant, whereas the alternative of half-a-dozen powerful stations dotted about the country would, it is estimated, cost £480,000 in non-recurring, and £150,000 in annually recurring charges. The Indian exchequer is not able to bear such a strain at this stage.

Course for Swiss Apprentices

Every winter since 1927 the Department of Agriculture, Industry, and Commerce of the Canton du Vaud, Switzerland, with the collaboration of the *Société romande de radiodiffusion*, has organised a professional course which has been broadcast for the benefit of apprentices in those rural and mountainous districts that are situated at an inconvenient distance from the regular centres of instruction. The course for the present season began on December 5, and will be continued every Tuesday and Thursday until the end of March, when examinations will be held. After-school instruction for all apprentices is compulsory in Switzerland.

Spanish Service: Deputies' Plans

A group of Deputies in Spain have signed a Bill for a proposed law whereby all Spanish broadcasting stations would be prohibited from radiating advertising announcements, and would be limited solely to the transmission of programmes of artistic, scientific, or cultural merit. News announcements would be limited to two five-minute periods daily, at 8.30 a.m. and 9 p.m. It is proposed to compensate stations for any losses that may be sustained as a result of the adoption of such a plan by imposing increased fees on listeners, and a further proposal is to make the renewal of licences to transmitting stations the subject of special consideration in each case when existing licences expire.

Receiving Sets in the U.S.A.

According to an inventory recently issued by the United States Department of Commerce, the number of receiving sets in the U.S.A. on December 1, 1934, totalled 25,551,569, the total for North America being 26,632,981. Our Washington Correspondent reports that, according to trade estimates, there are 2,295,770 American homes equipped with two or more receiving sets.

Baltimore's Own Symphony Orchestra

Dr. Ernest Schelling, who first appeared in the world of music at four years of age, and who has conducted both the New York Philharmonic and Boston Symphony Orchestras, last month made his *début* as conductor of the Baltimore Symphony Orchestra, the programme on that occasion being broadcast over the local stations. The Mayor of Baltimore, in an address at a luncheon preceding the programme, said that the performance would be not only unique in musical circles, but exceptional in Baltimore's civic history, since the Baltimore Symphony Orchestra is the only municipal organisation of its kind in the United States, the city having provided in its budget for the maintenance of a symphony orchestra with the object of stimulating an appreciation and understanding of all that is best in music.

LISTENERS' QUERY SERVICE

Which station was that?

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."

Time of Reception

The identification of stations will be greatly facilitated if readers, in answering the first question in the Identification Coupon, will always add a.m. or p.m. to the hour of reception—e.g., 12.5 a.m. to indicate five minutes after midnight.

POTBROM (Birmingham): Air Ministry transmitter at Borough Hill (Northants), 1,186 m. **TELLUS** (Parkstone): **CAT CALL** (Chorleywood): **PMN**, Bandoeng (Java), 29.24 m. **EAST HAM** (Lincoln): Moscow (U.S.S.R.), 50 m. **TANK** (Bath): (1) **CTIGL**, Parede (Portugal), again working on 291 m. (1,031 kc/s); (2) **WCAU**, Philadelphia (Pa.), 256.4 m. **CARNOUSTIE** (Angus): (1) **GDM**, Dungeness Lighthouse, 979 m.; **GGB**, South Bishop Lighthouse, 942 m.; **MMH**, Spurn Light Vessel, 988 m.; **GGJ**, North Lundy Lighthouse, 942 m.; (2) regret, cannot trace. **HELP** (Leeds): **Ljubljana** (Yugoslavia). **LANG** (Birmingham): (1) possibly **LR2**, Radio-Argentina (Buenos Aires), 329.7 m.; (2) would tally with **LRI**, Radio el Mundo, Buenos Aires, 280.4 m. **AJAX** (Birkenhead): Second harmonic of **Droitwich**. **CHERRY** (Leicester): Nice-Corsica, on 253.2 m. **BRUMMY** (Sparkhill): (1) new Rome transmitter testing with Tripoli and Asmara; words heard: "pronto" ("attention," or "stand-by") and "va bene" ("O.K."); (2) regret, details too vague to trace. **M. S.** (Westons-Mare): **LKJ1**, Jeløy (Norway), 31.48 m., relaying concert of gramophone records from Oslo. **X. X. X.** (Huddersfield): (1) **CRCX**, Bowmanville (Ont.), 49.26 m., relaying **CRCT** (medium-wave station); (2) **RKI**, Moscow (U.S.S.R.), 19.88 m. **DENSER** (Rawnsley): Moscow 2 (RW43), 1,107 m. **WASS-ITAMERICA** (Edinburgh): No, this was Poste Parisien (Newspapermen's Adventures No. 13); sponsored broadcast. **FLY FIFER** (Leven): (1) **LS9**, "La Voz del Aire," Buenos Aires, 236.2 m.; (2) **LR6**, Radio La Nacion, Buenos Aires, 344.8 m.; (3) there is a background of the Athlone transmissions on approximately 900 m. **RADIOSTRALIA** (Paisley): (1) possibly Moscow (U.S.S.R.), 100-kW station on 360.6 m.; (2) aerodrome transmissions throughout the day on 862 m.; (3) **CTIGL**, Parede (Portugal), again working on 291 m. (testing); (4) **WHIC**, Hartford (Conn.), 288.3 m. **CLANSMAN** (Glasgow): (1) **COCD**, Havana (Cuba), 48.92 m.; (2) if announcements were in English, **VUB**, Bombay, on 31.36 m., but **LKJ1**, Jeløy (Norway) on 31.48 m., was giving gramophone records at the time. **CONTINENTAL CATCHER** (S.E.9): (1) apparently a background of the Radio-Luxembourg programme; also experienced by other listeners on approximately 456 m.; (2) Genoa and Hilversum in the background. **A. R. B. C.** (Wicklow): Apparently direct reception of medium-wave U.S.A. station; as no wavelength is estimated, it is impossible to state definitely which channel was received; if at lower end of wave-band, might be **WCAU**, Philadelphia (Pa.), which has recently been well heard. **A. C. MAINS** (Stoke-on-Trent): **COCD**, Havana (Cuba), 48.92 m. (6,130 kc/s). **DOC** (Glasgow): **WEL**, Rocky Point (New York), 33.52 m. (8,590 kc/s); address: Radio Corporation of America, Central Frequency Bureau, 66, Broad Street, New York City, U.S.A. **F. W. TROUT** (Birmingham): **DJI**, Zeesem (Germany), on 31.01 m. (9,675 kc/s). **GOTT** (Glasgow): (1) there is no Canadian Radio Commission station on wavelength given; are you sure you were tuned in on medium waves? **CJRX**, Winnipeg (Canada), on 25.6 m. (11,715 kc/s), was working at the time; (2) details too vague, cannot trace; (3) call incorrect; **WPO** is call of Pollock Rip Lightship (U.S.A.); wavelength and time would tally with

IDENTIFICATION COUPON (No. 358)
This coupon is valid for ONE QUESTION only and should be cut out and attached to a separate sheet, upon which the following questions should be answered in the order shown. A copy of the answers should be enclosed with FREE queries. No coupon more than one month old is valid. A coupon is not required from readers living in countries outside Europe who desire identification of transmissions.

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

WCAU, Philadelphia (Pa.), CBS station on 256.4 m. **NEWS-HOUND** (East Lothian): British amateur transmitter in your immediate neighbourhood (break-through). **SCOUT** (Guernsey): No Java station advertised on wavelength given; possibly a test relay by **PCJ**, Eindhoven (Holland). **INDUCIVE** (Edinburgh): British amateur transmitter (60 m. band).

AMATEUR TRANSMITTERS

The identity of amateur transmitters may be found in the "Radio Amateur Call Book," the Winter Edition of which will be ready shortly, and which will be obtainable, price 6s. post free, from the Publications Dept., BBC, Broadcasting House, London, W.1. The 1936 Edition of the "Radio Amateur's Handbook" is now ready and may also be obtained, price 5s. 3d., post free, from the above address.

WAVELENGTH DEVIATIONS

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

	kc/s	m.
Moscow 1 (U.S.S.R.)	172	1,744
Istanbul (Turkey)	185	1,621
Tiflis (U.S.S.R.)	282.9	1,060.2
Finmark (Norway)	345.7	867.6
Budapest 2 (Hungary)	350	857
Tartu (Estonia)	512.6	585.1
Hamar (Norway)	514.5	583
Valencia (Spain)	852.4	351.9
Cork (Irish Free State)	1,237.6	242.4
San Sebastian EAJ8 (Spain)	1,261	237.9
Binche (Belgium)	1,487	201.7
Liège Experimental (Belgium)	1,510	198.7

FOREIGN LANGUAGES

(Continued from page 16)

Les deseo a Vds muy felices pascuas y año nuevo, y quedo (*I remain*; *quedar*: to remain) de Vds, suya afma (*Yours sincerely*),
MARÍA F. DE LAGUNA
(afma—afectisima, never written in full.)

[The Spanish broadcasts will be continued on Thursday, January 9, and the World-Radio Spanish notes in the issue of January 10.]

Esperanto Transmissions

Sunday—Lille, 9.15 a.m., Course. Leningrad (1,224 m.), 9.20 p.m., "Ruga Presnjo—Insurekto 1905 j." Monday—Sottens, 5.30 p.m.—Supera Kurso. Radio-Lyons, 6.30 p.m., Course. Tuesday—Hilversum (1,875 m.), 6.20 p.m., Course. Anekdotoj de P. Heilker. Tallinn, 6.50 p.m. Parola do pri Estonio. Minsk, 7.55 p.m. Niaj atingoj en Blankrusio." Wednesday—Vienna, 5.35 p.m., Course. Informoj pri la 28-a U.K. Thursday—Leningrad (1,224 m.), 9.20 p.m., Felietono—Nia Rilato al Kristnasko. Friday—Nice-Juan-les-Pins, 6.15 p.m., Parolado. Saturday—Hilversum (1,875 m.), 5.10 p.m., Esperantista informo de P. Heilker. Rome, Milan k.t.p., 6.15 p.m., Respondoj al Geŝskultantoj. Lyons-la-Doua, 8.5 p.m., Informoj de S-ino Borel.

STATION IDENTIFICATION PANEL

PARIS (POSTE NATIONAL RADIO PARIS) FRANCE
FREQUENCY: 182 kc/s; WAVELENGTH: 1,648 m.;
POWER (COPENHAGEN): 80 kW.
DISTANCE AND BEARING FROM LONDON: 214 miles; 148°.
CALL: "Allô! Allô! Ici Poste National Radio-Paris, Poste d'Émission de St. Rémy l'Honoré!"
INTERVAL CALL: "Ici Poste National Radio-Paris!"
INTERVAL SIGNAL: A few bars from "La Victoire en Chantant":—



Man announcer.

Closes down with call and "Bonsoir, Mesdames; bonsoir, Mesdemoiselles; bonsoir Messieurs!" followed by preliminary bars of "La Marseillaise" at close of transmission:—



FELLOW-PASSENGERS

(Continued from page 12)

steadily less vague and more real. I began to recognise figures—I was looking at a film, but a film with depth and colour. I saw myself sitting in a railway compartment. There was only one other occupant. At the time he was a stranger to me. It was you! I was talking and you were listening with a strange and fearful expression on your face just as you are doing now. Through the window of the compartment I could see the landscape hurtling past. We were evidently travelling at great speed. Suddenly I saw the smooth movement of the hurrying landscape come to an abrupt halt. In the split fraction of a second the sides of the compartment seemed to splinter and cave in. The two figures—yours and mine—were crushed between the shattered walls of the compartment. . . . I saw my own features contort themselves into a ghastly mask of terror and pain. . . ."

He broke off, his gaze concentrated in a fixed stare. Suddenly he stood up, hands outstretched as if to ward off some threatening terror. His face became contorted, and his voice rose to a shriek, as he frenziedly cried: "Keep it out! Keep it out! See! The blue film—it's getting deeper—greener. I can't bear it again."

Before I could break in and reassure him that what he saw was merely the sulphurous smoke invading our carriage as we entered a tunnel, he fell back in a limp heap.

Instinctively, I pulled the communication cord. It seemed hours before anyone came.

"Yes, a sad case, sir! He must have died of shock. But his death probably saved many others. We pulled up just in time—a fall of earth had blocked the line right outside the tunnel."

IT GETS THE WORLD!

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ALL WAVE RECEIVER. Why not obtain this wonder set for the New Year? It places the never-ending feast of the world's programmes—at your finger tips. Acknowledged to be the finest commercial all-wave receiver ever produced. Glowing reception-reports from actual users at home and abroad on request. 6 Valve Super-het. (15-29; 27-65; 220-535; and 1,100-1,950 metres). Perfected A.V.C.: No coil changing! Very sharp station separation.
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FRENCH

(A) Remarks on Contrast in French

We express contrast in French in the same way as in English, by a sudden change in the pitch of the emphasised word. And, just as in English, it is the syllable normally stressed, which is said with the intonation of contrast. This means, that in French, it is the last syllable of the word emphasised for contrast, which is pronounced with a high-falling intonation.

The syllables preceding the emphatic one have very little prominence, and are said rather quickly, almost on a monotone. The syllables that follow the emphasis have usually a low level intonation.

The pattern of this type of intonation is on p. 15 of the BBC French Pamphlet.

(B) Key to Exercise A, p. 58, *Nelson's Second French Course*

(1) He invited (*He has invited*) us to (come and) have tea at his house next Sunday. (2) After breakfast he started (*began*) reading his paper. (3) I obliged them to tell me where they were going to-morrow. (4) I have to tell you that I shall set off (*start, depart*) next week. (5) Our maid loves to go to market. She meets all her friends there. (6) I'm going to learn to drive a car. (7) You must (*You will have to*) begin by learning your irregular verbs. (8) I have not succeeded (*I didn't succeed*) in finding your house. I went to the wrong number (I mistook the number).

(C) Key to Exercise B, p. 59. *Course*

(1) Qui a obligé votre frère à revenir de si bonne heure (. . . à revenir si tôt)? (2) Enfin nous avons réussi à trouver la maison de notre ami. (3) Ils ont fini par nous dire que nous avions été trompés (. . . qu'on nous avait trompés). (4) Quand il fait chaud nous aimons à nous reposer dans le jardin. (5) Nous voudrions (*aimerions*) apprendre à nager. (6) Aussitôt que mon père eut pris (*bu*) son café il se mit à écrire des lettres. (7) J'ai invité mes amis à (*venir*) déjeuner jeudi prochain. (8) Aussitôt (*Dès*) que mon frère aura soupé il se mettra (*il commencera*) à nettoyer sa bicyclette.

(D) Key to Exercise C, p. 59. *Course**Specimen Answers to the Questions.*

(1) Qui, j'ai appris à le parler il y a quelques années. (2) Non, il n'a pas réussi à le trouver, il s'est trompé de numéro. (3) Mon père m'a obligé à y rester; il n'a pas voulu me laisser sortir si tard. (4) Je les ai invités à venir prendre le thé mardi prochain. (5) Qui, j'aime beaucoup à l'apprendre; je trouve que c'est bien intéressant. (6) Non, ce n'est pas par là que j'ai commencé; j'ai commencé par apprendre des mots et des phrases.

(E) Key to Exercise B, p. 140. *Course*

(1) Ils semblent croire que je devrais savoir tous mes verbes.

(2) Nous pouvions entendre les oiseaux chanter dans le bois près de la maison.

(3) Le professeur (*Le maître*) lui a fait (*fit*) finir les trois exercices qu'il avait commencés.

(4) Ma mère l'a vu (*le vit*) manger des pommes sur un banc dans le verger.

(5) Le père de Pierre se fait faire construire une grande maison au bord de la rivière.

(6) Les petites filles allèrent (*sont allées*) chercher des fleurs dans les champs.

(7) Mon frère Thomas s'est laissé (*se laissa*) battre par un petit garçon.

(8) Il ne voulait pas conduire les vaches au champ; mais je l'ai obligé à le faire (*à y aller*) or (*je l'ai fait y aller*).

(F) Key to Exercise C, p. 141. *Course*

(1) Quand j'entendrai votre auto venir j'irai dans la cour et j'ouvrirai la porte (. . . pour ouvrir la porte).

(2) Si vous venez me voir ce soir vous pourrez écouter la T.S.F.

(3) Vous devriez montrer votre bicyclette à mon frère. Il va en acheter une samedi.

FOREIGN Languages

(4) Je veux aller à la maison de mon professeur d'histoire. Pouvez-vous me dire où il demeure?

(5) Vous ne pouvez pas jouer au tennis cette (*ce*) après-midi. Vous devez aller à la gare pour rencontrer vos cousins (. . . pour aller à la rencontre de vos cousins).

(6) Nous devons courir. Je ne veux pas les faire attendre dehors.

(7) Il va faire chaud aujourd'hui. Nous devrions emporter notre déjeuner et rester sur la grève toute la journée.

(8) Quand il fit construire cette maison il croyait qu'il pourrait la payer.

(G) Key to Exercise D (1 to 6), p. 158. *Course*

(1) Regardez, voilà un bateau (*navire*) hollandais dans le bassin. Je (*le*) sais par le pavillon à l'arrière. Il doit être venu d'Amsterdam.

(2) Il y a deux croiseurs américains dans le port. Je me demande s'il nous permettront de les visiter. A qui pouvons-nous demander?

(3) Les grandes paquebots touchent à Cherbourg avant d'aller à Southampton. Ceci permet à un voyageur de quitter New-York le samedi, et d'être à Paris le vendredi suivant.

(4) Mon cousin est mécanicien sur un (*à bord d'un*) contre-torpilleur. Il y a six mois qu'il est dans la flotte.

(5) Quand mon grand-père était jeune les bateaux (*navires*) étaient beaucoup plus petits et moins confortables que nos paquebots. Ils ne voyageaient pas si (*aussi*) vite.

[*The French broadcasts will be continued on Tuesday, January 7, and the WORLD-RADIO French Notes in the issue of January 10.*]

E. M. STÉPHAN.

SPANISH

"PERSONAL A"

(See *Primeras Note*, page 39, and *Noun-Object*, page 196)

The preposition *a* is used before the direct object if the latter is a person, or "personified thing," or intelligent animal. Examples: *veo la luz* (light), but *veo a mi padre*; *veo a mi caballo*; *amamos las virtudes*; but: *amamos a Dios*. The chief personified things are, nations, and big cities. *Visito los museos*; but: *visito a Paris*; *amamos a la patria*.

Ex. I. (Key in next W.R. Notes.) Translate into Spanish:—

We love our parents (*padres*). The shepherd calls his dog. (Do) you visit Madrid when you are in Spain? Yes, and I also visit the famous Museo del Prado in Madrid. Why (did) Guzmán el Bueno sacrifice (to sacrifice: *sacrificar*) his son? Because he loved his country (*patria*). I see my friend at half-past five on Saturdays. Have you seen the manager in the office? Yes; and I have shown the manager my work.

Key to Ex. I. *Primeras*. (Lección 22.)

1. a. 2. al. 3. al. 4. al. 5. a. 6. al. 7. al. 8. a. 9 (no blank). 10. a.

Key to Ex. II. (Lección 22.) 1. Él. 2. Él. 3. Vd. 4. Le. 5. él. 6. Él; Vd. 7 (no blank). 8. Le. 9. le. 10. Él.

Key to Ex. III. (Lección 22.) El gobernador lleva a su hijo al campo. Pedro lleva al niño a la muralla. "Quiero su ciudad" le dice a él. "Esta no es mi ciudad," le contesta don Alonso. "¿Dónde está mi hijo?" le pregunta la madre. El rey llama a Don Alonso un amigo leal.

Key to Ex. I. (Lección 24.) 1. Era. 2. estaban.

3. Estaban. 4. estaba. 5. llavaba; era. 6. Llavaba. 7. Llavaba. 8. Llevaba. 9. Eran. 10. Lloraba; quería. 11. quería.

Key to Ex. III. (Lección 24.) La flor está sobre la mesa. Los niños están en la ciudad sin su profesor. Antonio mira por la ventana. Estas flores son para mi profesora (or: maestra). El libro está sobre (or: en) la silla. El Profesor (or: el maestro) espera hasta las doce.

Key to Ex. I (last week's W.R.) me acuesto. te sientas. almorzamos. entienden. vuelve. muestran. cuenta. almorzamos. cierra. vuelve. me despierto. piensa.

Another Exercise on Radical Changing Verbs.

(Key next time.)

Translate into Spanish:—When (do) you sit in the garden? I sit in the garden in the summer. (Do) you lunch at home every day? We (do) not like the restaurants. What are you thinking of? (In what think you?) I go to London to-morrow and I return next Saturday. Why (do) you shut the window? I shut the window because I am (have) cold. I am not cold, I am hot. When the lesson begins, we all listen to the teacher. I count the mistakes (*errors*) in my dictation. I have very few (*pocos*).

Narración. (*To and Fro.*)

Salvador era un joven pastor. Vivía en el campo, en una casita pequeña. Tenía un fiel amigo: su perro. El perro se llamaba Palomo. Todos los días iban al campo con la manada de ovejas (*sheep*). Salvador se sentaba en la hierba (*grass*) fresca, y miraba los montes. Cuando había (*there were, or there was*; see W.R. Oct. 18) borregos en la manada, Salvador y Palomo tenían mucho trabajo. Un día, Salvador vió (*saw*) pasar un lobo (*wolf*) grande, que llevaba un borreguito (*notice the silent u, that keeps the g occlusive, in this diminutive*) en la boca. El pastor le tiró (*threw*) una piedra al lobo, y le dió (*gave, or hit*) en un ojo. El lobo soltó su presa (*prey*) mientras que Palomo corría tras (*after*) él, ladrando (*barking*). El borreguito escapó sano y salvo (*safe and sound*).

Carta a mis radioyentes

(*otr*: to hear; *oyente*: listener; *radioyente*: radio-listener.)

Estimados radioyentes y lectores: La semana pasada yo les (*to you*) prometí una carta en español. Esta es. Ya han llegado Vds al final del primer trimestre (*term*) y como han estudiado Vds con mucho entusiasmo y atención, sin duda (*doubt*) han aprendido mucho español. Ya se aproxima (*aproximarse*: *to draw near*) el día de Navidad. Durante estos días de vacaciones y fiestas, sin duda no desean trabajar ni estudiar; pero comprenderán (*you will understand*) Vds, la necesidad de continuar su estudio del español para no olvidar (*to forget*) lo que (*that which*) han aprendido. ¿Qué hacen Vds el día de Navidad? Sin duda reciben regalos buenos, y pasan un día muy feliz, con toda la familia, y los amigos. Por la noche comen Vds pavo (*turkey*) "plum-pudding," y muchas cosas ricas. ¿Les gusta a Vds la Navidad? A mí, mucho. Ahora voy a decirlas a Vds, cómo se dice en español "*Happy Xmas and happy New Year*." En vez de (*instead of*) usar la palabra "Navidad," usamos la palabra "pascuas," siempre en el plural, y decimos: *Felices pascuas y año nuevo*. ¿Han observado Vds que se (*one*) usa el plural también en las saluciones: "buenos días"; "buenas tardes," "buenas noches?"

(Continued in col. 2, page 15.)

If you are studying a foreign language a "MIDGET" Dictionary with 25,000 words, dialogues for every occasion, list of Motor parts, etc., is a necessity. French, Italian, German or Spanish, price 6d. & 1/- each from Woolworths, Booksellers, or the Publishers Burgess & Bowes, Ltd., Waterloo Road, London. N.W.2. (Postage 1½d. extra.)—(Advt.)

“THIS GREAT FAMILY”

Technical Arrangements for the Christmas Day Broadcast

“This Great Family” is the lineal descendant of “All the World Over,” “Absent Friends” and “Empire Exchange,” the special programmes which have preceded the message to the Empire by his Majesty the King on Christmas Day in the last three years. The title was suggested by a passage in his Majesty’s last broadcast to the Empire on the celebration of his Jubilee. The programme will consist of relays from various parts of the home country and from the Empire overseas, and will be preceded by a prologue including a relay from Palestine of the bells of the Church of the Nativity at Bethlehem.

“This Great Family” will give listeners throughout the world an opportunity of visiting family gatherings and parties in Canada, where it will be early on Christmas morning; in South Africa, where it will be tea-time; in India, during the evening; in Australia, where it will be after midnight, and in New Zealand, where it will be nearly three o’clock on the morning of Boxing Day. These five sound pictures from the Dominions and from India will alternate with family scenes from England, Northern Ireland, Scotland, and Wales. Each item will be short, lasting approximately two and a half minutes. The programme will start at 2.30 p.m. Greenwich Time, with Big Ben, and at 3 p.m., according to present

arrangements, his Majesty the King will broadcast his Christmas message to the Empire.

In previous years WORLD-RADIO has published a detailed description of the technical arrangements for this Christmas Day broadcast. This year, however, the technical arrangements are almost identical with those made for the Jubilee and for Christmas, 1934, the same Dramatic Control Panel being used. It is therefore unnecessary to describe those arrangements in detail, but the following outline is given for the benefit of new readers.

In producing a programme of this kind, where the various items originate in widely separated places, it is essential to have some central point to which all the different items are brought and from which they can be distributed. One of the Dramatic Control Rooms at Broadcasting House (No. 3, which was specially designed to provide the necessary facilities) is chosen as this focal point, and the producer of the programme has the control of all the incoming programme circuits at his finger tips on the Dramatic Control Panel.

To appreciate the necessarily complicated arrangements it is best to consider them in two distinct parts: the collection of the individual programme items so that they are available at the D.C. panel, and the distribution of the composite programme

to all the broadcasting stations at home and abroad which wish to relay it.

First, then, the listener must imagine a number of circuits terminating at the D.C. panel at Broadcasting House—one, for example, from Bethlehem *via* Cairo, one from Big Ben, one each from several studios in Broadcasting House, one from Ottawa, one from Cape Town, one from Bombay, one from Melbourne and Wellington, and one or more from the BBC’s regional headquarters in the United Kingdom. The inland circuits will be wire circuits, and the overseas circuits partly wire and partly radio circuits—in fact, the radio-telephone circuits of the General Post Office, over which listeners can telephone to their relations in Empire countries. At least two circuits from Sandringham will also terminate on the D.C. panel to carry the voice of his Majesty the King.



Dramatic control panel—the focal point of the broadcast

Thus, in brief, the programme items are collected. The knobs on the D.C. panel allow the producer to fade in each contribution at will on to the common output from the panel. It is this common output which is connected to the outgoing circuits from Broadcasting House to the broadcasting stations at home and overseas, which, in turn, transmit the programme to their own local listeners. The outgoing circuits are similar to the incoming ones—being land lines or radio circuits. Arrangements are made so that those contributing to the programme can hear the part of the programme which immediately precedes their contribution, and so receive the cue to allow them to start at the precise moment.

Providing for Contingencies

Every endeavour is made and every precaution is taken to ensure that the programme shall proceed without a break from start to finish, and account must therefore be taken of the many sources of possible failure in so comprehensive a network. Each of the overseas contributions is recorded in London a few days before, so that if a last-minute failure should occur, the programme can continue without interruption. It must be emphasised, however, that these records are made only as a standby in case of accident, and that if all goes well the whole programme will be carried out without their aid.

Listeners in distant parts of the Empire, who have no local broadcasting service, will be able to hear the programme, if conditions are favourable, from the Empire Broadcasting Station at Daventry, from which it will be radiated simultaneously on three wavelengths.

Co-Operation Essential

It is possible to carry through the seEmpire-wide broadcasts only by close co-operation between the many broadcasting organisations and telephone administrations concerned, and the BBC acknowledges with gratitude the very close and cordial co-operation it has received from the African Broadcasting Company, the Australian Broadcasting Commission, the Canadian Radio Broadcasting Commission, the Controller of Broadcasting, Government of India, the New Zealand Broadcasting Board and the Department of Posts and Telegraphs, Palestine, as well as from the Empire telephone administrations, the Egyptian Post and Telegraph Administration, and the British General Post Office.

Thus, the telephone communications and broadcasting systems of the Empire, consisting of thousands of miles of wire, dozens of amplifiers, wireless transmitters and receivers in five Continents—representing the result of intensive development and construction work of many years—are used to link up “This Great Family” of the peoples of the British Empire for a short space of forty-odd minutes on Christmas Day.

L. W. H.



The two control rooms which deal with the programme items—at Broadcasting House (above) and at the G.P.O. station at Rugby (below)

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0-120 ..	0-240 ..
0-300 ..	0-600 ..
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0-10,000 ohms.	..
0-60,000
0-1,200,000
0-3 megohms	..

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ROTHERMEL-BRUSH PIEZO-ELECTRIC PICK-UP



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No radio installation is complete without a Rothermel-Brush Piezo-Electric Pick-up—it enables you to select your own programme of music from your favourite records at any time you wish. Your local dealer will demonstrate this wonderful Pick-up. If you experience any difficulty write to us direct.

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MODEL S. 8.

42' -

Making the Most of a New Set (2)

(Continued from page 12, December 6)

It was suggested in the first part of this article that most wireless receivers can be adapted for forms of home entertainment other than broadcast reception. Of these, the most important and the most popular is the reproduction of gramophone records. Electrical reproduction by means of the loudspeaker is the natural corollary of the electrical methods now universally employed in recording, and the action of the gramophone pick-up in conjunction with the receiver and speaker is simply a reversal of the processes adopted in making records.

In the recording studio, the artists perform before a microphone similar to that used in a broadcasting studio, and the telephone currents produced in the microphone are amplified and then operate a mechanism which cuts indentations in the wax of the master record. In the gramophone pick-up, the needle, in following these indentations in the track of the record, operates a device which re-creates the varying electric currents originally produced by the microphone. These varying currents, which correspond with the original performance, are then amplified by the low-frequency section of the wireless set—usually the last two valves—and then operate the speaker.

Most modern radio sets have (usually at the back) a pair of terminals or sockets to which a pick-up can be attached, but if such are not provided it is often possible to purchase for a shilling or so a gramophone adaptor having a pair of terminals at the side, a set of "pins" similar to those at the base of a valve, and also a set of sockets into which a valve can be fitted. To use this device, the detector valve must be removed from the set, and the adaptor, to which the pick-up leads are first attached, plugged into the detector valveholder; after which the valve is replaced in the socket at the top of the adaptor.

Types of Pick-ups

There are several types and many makes of pick-up, but generally speaking they are all of one or other of two main types. The electromagnetic pick-up is so arranged that the movement of the needle disturbs the magnetic field of a system of magnet and coil, with the result that telephone currents are induced in the coil. The other form of pick-up, which is comparatively new, consists of a crystal of some such material as Rochelle salt, which has the property of generating an electric pressure when subjected to mechanical stress. The movement of the gramophone needle in this case is transmitted through a system of levers so that it varies the pressure on the crystal, causing a corresponding varying electric signal to be produced. The arrangement and characteristics of this type of pick-up have been fully described recently in *WORLD-RADIO*.

The fitting of a pick-up to an existing acoustic gramophone is quite a simple matter. The old sound-box must be unscrewed and removed, and the pick-up fitted in its place on the tone arm. Usually it is possible to obtain a pick-up which will fit easily on standard tone arms, but if one cannot be obtained, it will be necessary to buy a pick-up complete with arm, screwing this to the motor board of the gramophone in place of the old tone arm.

When fitting a pick-up arm care must be taken to ensure what is known as correct "tracking," that is to say, the pick-up, as it moves from the outside towards the centre of the record, must follow as closely as possible a straight line joining the outside position and the centre. Theoretically perfect tracking would be possible only with an arm of infinite length, but if the pick-up arm is installed in accordance

with the maker's instructions, the error in tracking is negligible.

One important point which must be considered is in connexion with the volume control arrangements. In some receivers the volume control is so arranged that it will operate on both radio and gramophone reproduction; in others it operates on radio only. In these circumstances an independent volume control must be fitted for use with the pick-up, and this may be mounted on the motor board of the gramophone. In selecting a control for this purpose it is advisable to inquire from the dealer as to what value is most suitable. For most pick-ups, a control having a total resistance of 500,000 ohms is suitable, but some pick-ups require a smaller value, down to about 100,000 ohms.

As already mentioned, a pick-up can be fitted to any acoustic gramophone. The quality of the instrument is not of very great importance, as all that is used of the old machine is the motor and turn-table. Thus many an old and discarded gramophone can be made to give a further period of service and entertainment. If the listener does not happen to possess a gramophone which he can adapt in this way, it is possible to obtain a "playing desk" comprising a turn-table—either electrically or spring driven—with pick-up and arm, and, if desired, complete volume control. Playing desks are available in many forms, in some cases consisting of a plinth on which the set can be mounted, the turn-table being brought into action by pulling out a flap, while others are built like a small table or cabinet to stand on the floor, the receiver being placed on the top and the space beneath forming a handy record cupboard.

Using a Microphone

Allied to the use of a gramophone pick-up is the employment of a home microphone by which more personal performances can be relayed from one room to another. Microphones are obtainable at prices from a few shillings to

compère can be made to provide a capital evening's entertainment.

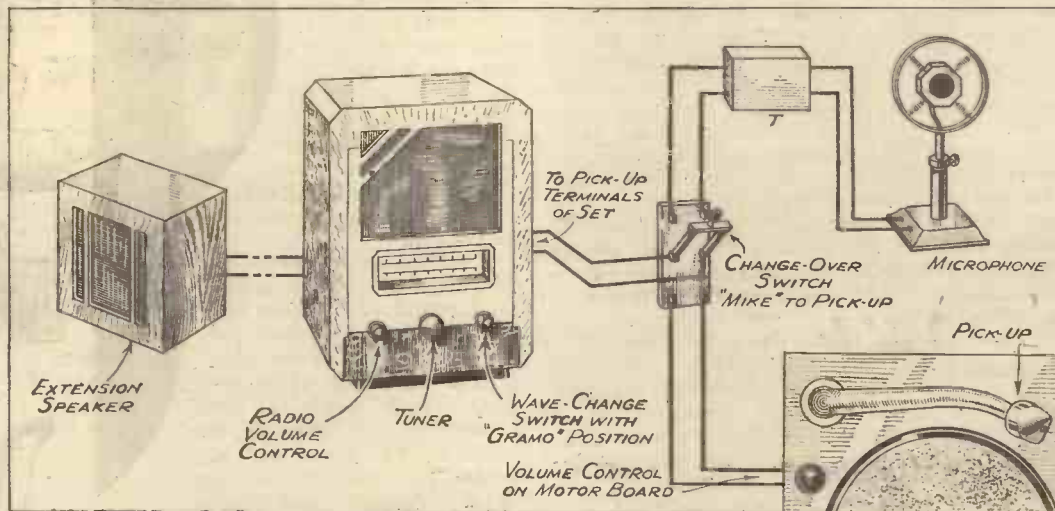
A little experience, too, will enable all sorts of "effects" to be obtained, and an equipment of this sort is of great value in amateur theatricals. All that is required is to connect the microphone to the pick-up terminals of the set, but the arrangement shown in the diagram enables a rapid change-over to be made from one to the other. A carbon microphone will require a 4 or 6-volt battery, and a transformer as indicated at "T" in the diagram. Amateurs with a little radio knowledge might even arrange a control panel for fading from gramophone to "mike" and *vice versa*.

There are one or two simple precautions which should be taken, however. First, the microphone should be kept well away from the loudspeaker, or sound from the speaker will be picked up by the microphone and re-amplified, the process being cumulative so that a terrible howl is set up. Likewise the wires connecting the microphone to the set and the wires leading to the speaker must be kept well apart, and it is even advisable, in some cases, to use metal-screened cable for the microphone, the metal sheathing being connected to earth *via* the earth terminal of the receiver.

Short-Wave Reception

Another way in which the utility of the receiver may be extended is for the reception of short-wave transmissions. The regular broadcasts take place on wavelengths in the medium and long-wave bands, but, as most readers of *WORLD-RADIO* are aware, the wavelengths between about 14 and 50 metres now contain very much of interest. To begin with, there are good programmes from all parts of the Continent of Europe, and American and other long-distance broadcasts are frequently receivable at good entertainment value.

Some of this season's receivers are designed as "all-wave" sets, and can be used on the short-wave band without alteration, and by merely moving a switch. A standard "medium-



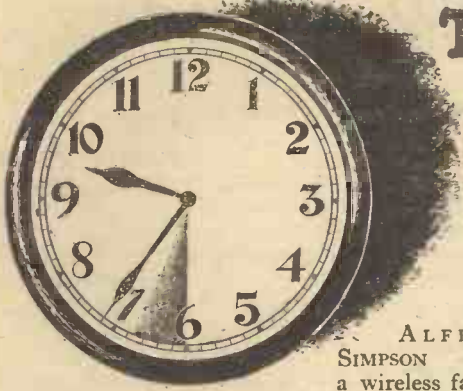
Method of using microphone, pick-up, and extension speaker with broadcast receiver

several pounds, and, when connected to the gramophone pick-up terminals of a set, may be the source of much fun and entertainment. Much amusement can be obtained by installing the receiver, a turn-table, and pick-up, and also a microphone in one room, fitting only an extension speaker in the room where the "audience" is seated. Suitable items from the broadcast programmes, gramophone records, and a judicious selection of home "turns," interspersed with snappy remarks by an amateur

and long-wave" set, however, can be readily adapted for short-wave listening by using a short-wave "converter." This is a small-unit having one, or sometimes two, valves which, when connected to a receiver, convert it into a superhet set of which the normal radio-frequency amplifier serves as the intermediate-frequency amplifier. Usually all that needs to be done is to connect the converter to the aerial and earth and the output terminal of the converter to the

(Continued at foot of column 1, page 21)

The Imperfect Alibi by "DECIBEL"



ALFRED SIMPSON was a wireless fan of

long standing. He had tried out practically every receiver circuit that had ever been published, and lots more besides. In fact, he was getting just a trifle bored with his hobby. He felt a desire for something else which would give him the kind of thrill he used to get, years ago, when he occasionally succeeded in receiving America. Nowadays, anybody could receive America; consequently, there was no thrill left for Alfred Simpson in that direction.

He had been one of the first to fit a motor-car with a wireless set, and his old, dilapidated car, with a loudspeaker bellowing forth from the dash, was a familiar sight and sound in the district. He had, of course, dabbled in television also, but there was little more he could do in that respect until further progress had been made at the transmitting end.

Altogether, therefore, friend Alfred was at rather a loose end these days, and he began to devote more of his leisure to reading detective novels. Not that he derived *no* pleasure from the society of his fellow men. On the contrary, he usually put in a fairly large proportion of the evening at the local public-house; and he often went to gossip with his pal, Bill Matthews, in the booking-office at the railway station, when Bill was supposed to be carrying out the duties of booking-clerk, ticket collector, porter, and station-master.

Discussions in the saloon bar and the booking-office on the relative merits of straight receivers and superhets, and similar subjects, had gradually given way to discussions on various forms of crime, and dissertations by Alfred on the various methods adopted by such famous investigators as Lord Peter Wimsey, Monsieur Hercule Poirot, and Inspector Wilson; to say nothing of Sherlock Holmes.

On many occasions Alfred had called Bill's attention to his carelessness with regard to the money left lying about in the booking-office. He had often pointed out how easy it would be for anyone so disposed to walk off with it while Bill was down on the platform during the periods when his duties as porter and ticket-collector took precedence over the duties of booking-clerk.

The difficulties in the way of such an evilly-disposed person would have been increased if Bill had always remembered to lock the door of the booking-office when he left it. Such trivialities as that, however, didn't worry Bill. Hadn't he been forgetting to lock the door for thirty years and nobody had ever stolen anything? Who would be likely to steal anything, anyway?

It was only natural that discussions of this kind should cause Alfred to turn over in his mind the possibilities of anyone being able to walk off with the money without being found out; either at the time or subsequently. In view of Bill's carelessness it ought to be fairly easy to get away with the money without actually being caught in the act; but investigations of the movements of anyone seen in the vicinity might easily lead to discovery of the thief's identity.

What was wanted, of course, was an alibi.

All the suspects in a detective novel always had alibis, and the greatness of a crime investigator lay in his ability to prove the validity or otherwise of an alibi. Why shouldn't Alfred Simpson be able to devise an alibi that would convince not only the local police-sergeant, but even Lord Peter and the rest?

The more Alfred thought about this idea the more intrigued he became. He considered the possibility of making some use of his wireless knowledge. He had read stories where alibis had been based on the time at which wireless programmes had been heard. Could he do anything on these lines?

Suddenly an idea occurred to him. Why not make use of the Greenwich time signal—the six pips? They would fix the alibi to seconds. He could easily arrange for the loudspeaker of the set in his car to emit six pips at any time during the day or night. Nobody would be able to distinguish these pips from the genuine article.

The idea gave him a bigger thrill than he had had for a long time. How could the alibi be worked round it? There was a train which was due at the station at 9.32 p.m., two minutes after the 9.30 time signal. Bill always left the booking office as he heard the train come into the station, and was absent for at least two or three minutes; ample time for anyone to slip into the booking office and collar the money.

The train was practically always on time, so allowing, say, one minute for getting the money, another minute to get to his car, which could be hidden down a country lane close to the station, and two minutes to get from there to "The Red Lion," he could be at "The Red Lion" six minutes after the half-hour. As he arrived he could switch on the six pips so that the attendant at the pub would hear them, and as he happened to know that the attendant did not possess a watch, there was practically no likelihood that the difference between the real time of 9.36 and the apparent time of exactly 9.30 would be noticed.

A minute or two spent in conversation with the attendant would be sufficient explanation to account for his arrival in the saloon bar after 9.30, in the event of anyone happening to notice the time he entered. In any case, the clock in the saloon bar was always fast, and it was most unlikely that the exact time of his arrival could be ascertained at a later date if inquiries happened to be made.

Up to this point in his meditations Alfred had had no definite idea of putting the scheme into actual operation. So far it had been merely a little mental exercise, but the more he thought about it the more convinced he became that he had really discovered the perfect alibi; and being a doer rather more than a thinker, the idea of putting his plan to the test followed naturally.

A few years before, he had dabbled quite a lot in the recording of sound, and it was a

simple matter for him to record the Greenwich time-signal on a metal disc and to reproduce it *via* a gramophone pick-up, amplifier, and loudspeaker. The necessary turntable and pick-up could easily be fitted temporarily underneath the dash of his car without being noticeable, and the simple operation of a switch would cause the six pips to be emitted by his loudspeaker.

In his enthusiasm he actually carried out this part of his plan before he had really decided to put the whole scheme into effect. He made a splendid record of the time-signal followed after a few seconds' pause by the announcer's voice saying: "This is the National programme." Alfred thought that the addition of the announcement would add greater weight to the authenticity of his pips.

After the scheme had got so far, the thought of putting it into practice became irresistible. Alfred considered possible loopholes carefully, and finally decided to test his perfect alibi. He chose market day in the neighbouring town for the occasion, as on such days there was more money lying about in the booking office, and naturally any experienced thief would know of this.

He also made certain, by reference to *The Radio Times* that the programme preceding the news was of the type which was not likely to over-run. He even took the precaution, when the day arrived, of making sure from the newspapers that there had been no last minute change in the programme; and, as a further safeguard, of listening to the First News at six o'clock in case any last minute changes had been made.

He had, of course, to have a satisfactory account of his movements prior to 9.30, and what could be better than to spend the time with Bill Matthews in the booking office? He arrived at the booking office soon after half past eight, having parked his car as usual just outside the station. He gossiped with Bill, and even pulled his leg about leaving the money about and not locking the door. Alfred thought this was a clever move because Bill, being Bill, would consequently be certain to leave the door unlocked deliberately out of pure obstinacy, if he chanced to remember that it ought to be locked.

"Everything went according to plan"

At 9.27 by the booking office clock, which was always kept accurate, Alfred said it was time he was going, as he wanted to call in at "The Red Lion" before closing time. He said good-night to Bill and went out to his car and drove off.

Just round the first bend in the road he turned down a lane and parked his car, without lights, in a small wood where it was not likely to be seen in the dark. He then crossed the fields back to the station and hid behind the booking office until the 9.32 arrived.



Everything went according to plan. The train arrived on time, Bill left the door of the booking office unlocked, and Alfred slipped in, pocketed the money and was off across the fields before any of the passengers had come off the platform. He was back at his car and driving away before any of the passengers could have reached the bend in the road in time to see him.

As he arrived at "The Red Lion" he switched on the record, and the six pips greeted the attendant as the car pulled into the parking place. Alfred switched off the apparatus just as the announcement concluded, and, after a few remarks to the car attendant, went into the saloon bar.

He was greeted by the landlord, who called out, "You're just the man I want, Alfred. Something seems to have gone wrong with my wireless. The missis can't get the National programme. She says it went off about twenty-five past nine."

Somewhat alarmed Alfred went with the landlord into the sitting-room at the back of the house. Examination of the set soon showed that it was functioning properly and that the carrier-wave of Droitwich, which was the station from which the National programme was usually received, was on. But there was no programme.

Alfred was wondering just what effect this would have on his alibi, when a voice began to speak. "This is the National programme. We must apologise for a break of twenty-one minutes, beginning at 9.26, in the National and Regional programmes from all transmitters. This was due to a road subsidence, resulting from the heavy rains, which has caused considerable damage to the Post Office cables connecting Broadcasting House with the various transmitters. We are happy to announce that temporary arrangements have now been made which will enable programmes to be continued until the damage has been repaired." Poor Alfred!

MAKING THE MOST OF A NEW SET (2)

(Continued from page 19)

aerial terminal of the main set, at the same time making the necessary connexions between the converter and the batteries or mains. The actual connexions required vary with different makes of converter and different receivers, but are always clearly specified in the instructions issued. Thereafter, only the tuning knob on the converter has to be operated, and if care is taken in tuning, the listener will soon be able to accustom himself to the somewhat different reception conditions, and to log a large number of interesting transmissions.

It should be remembered, however, that reception of the short-wave transmissions is not so consistent as with the longer waves. Sometimes atmospheric conditions make reception utterly impossible, whereas, only the previous day, stations were picked up with the greatest ease. Seasonal changes are also noticeable, and to cope with these and the changing conditions of daylight and night propagation, short-wave stations change from one wave to another according to circumstances. The wavelengths used by the principal short-wave broadcasting stations, together with their normal times of transmissions, are given in the Short-Wave List on page 26 of this issue, and armed with this, a fair stock of patience, and a log-book to record results, the short-wave neophyte can be sure of quite a lot of enjoyment.

H. C.

THE WIRELESS LEAGUE

The Extraordinary General Meeting of the members of the Wireless League, adjourned from December 6, will be held on Friday, January 10, 1936, at 6.30 p.m., at the Royal Automobile Club, Pall Mall, London.

Better Reception at Christmas

THE Christmas programmes of recent years have always included several broad-

casts of the most outstanding interest and importance, which no listener would want to miss. You may be sure that Christmas 1935 will prove no exception to this rule; and you will naturally want your set to be at its best throughout the festive season.

Many sets, unfortunately, seem to be addicted to the habit of getting out of order just at the moment that a particularly interesting programme is about to begin! But these unlucky coincidences can often be avoided completely by the simple commonsense expedient of giving the whole set a preliminary overhaul, in the course of which the development of faults can generally be foreseen and prevented. So, with a view to ensuring trouble-free reception over Christmas, you should overhaul your receiver a few days before the festivities are due to begin.

Examine the set and its accessories to make sure that no signs of incipient breakdown go undetected until it is too late to do anything about them. Even the most obliging of radio dealers can hardly be expected to keep their shops open over the Christmas holidays in order that any listeners whose sets suddenly break down in the midst of the festivities can rush out and get replacements! So it is well to be forearmed in this respect, and try to prevent breakdowns by applying the radio equivalent of "a stitch in time."

Check over all components and accessories to see whether they need adjusting, cleaning or replacing. Moving parts, such as switches, may be making poor contact as a result of wear, and preventing the set doing its best. Tuning condensers may be in need of slight re-ganging; connexions may want cleaning or even resoldering; the aerial and earth may require attention; and the loudspeaker may be in need of slight adjustment.

Valve or Battery Renewals

Consider how long your valves have been in use, and whether any of them are sufficiently near the end of their useful life to be a likely source of trouble during the Christmas holidays. If your set is battery-operated, you will need to check the voltages of the H.T. and G.B. batteries, to see whether they, too, require replacement. These tests should be carried out a few days before the holidays start, for, if you leave them till the last minute, you may then find difficulty in getting exactly the type of battery you want—and it is often very uneconomical to buy H.T. batteries containing cells of a capacity not suited to your set.

When testing the H.T. battery with the voltmeter, it is advisable to read the voltage between each adjacent pair of intermediateappings (where such are provided), to ascertain whether any particular section of the battery has deteriorated unduly and had better be cut out of circuit to prevent the development of crackling noises, etc., which might mar reception.

The accumulator will doubtless be kept working overtime to cope with the demand for radio entertainment during the festive season. Check the voltage and, if you have an hydrometer, test the specific gravity; or look at the charge-indicator, if the accumulator is fitted with one, to see whether recharging before Christmas is advisable. If you have only one accumulator, or cannot get the stand-by one recharged in time for the festivities, it might be wise to hire or borrow a spare accumulator, which you can probably get from the firm that does your recharging.

How to ensure trouble-free reception during the Festive Season by taking a few simple precautions beforehand.

In the case of a mains set it is not usually so easy to anticipate and prevent

the occurrence of breakdowns as in the case of a battery set. The majority of mains components, if and when they break down, do so quite suddenly and without warning. They seldom give such obvious signs of deterioration beforehand as those given by, let us say, an H.T. battery that is in need of replacement, or an L.T. accumulator that is in need of recharging. Nevertheless, a thorough examination and careful testing with a suitable multi-range meter will sometimes reveal clear indications that certain mains components are approaching the end of their useful life.

Mains-Operated Receivers

In testing a mains set, or any apparatus connected to it, you should, of course, take proper precautions against the risk of shock. Many of the components, as a matter of fact, can be tested quite adequately with the set switched off and entirely disconnected from the electric supply mains, provided that you have a dry battery available which will supply the necessary current for testing continuity of windings, insulation of condensers, and so on.

For certain other tests, notably reading the anode current of the valves with the milliampere range of the test-meter, it is necessary to have the set connected up and switched on while the readings are being noted. There is no need, however, to run any risk of getting a shock in the process if you go about it in the right way: (1) See that the set is switched off and disconnected from the mains by pulling out the plug which fits into the wall socket; (2) connect the test-meter in circuit, say, by means of a suitable adapter plugging into the valveholder; (3) connect set to mains, switch on and note the meter reading; (4) switch off the set and disconnect it from the mains again before you remove the test-meter adapter or connexions. The precautions suggested may seem over-elaborate but it's better to be safe than sorry; so never run any risk of accidentally touching a "live" part of the apparatus, or one that may become "live" in the event of a breakdown.

If, as a result of carrying out appropriate tests, you have reason to believe that some of your valves are nearly worn out, it is advisable to obtain replacements in good time; if you neglect to do so, the chances are that the ailing valves will decide to die just before the start of a programme that you particularly want to hear. Incidentally, having got the replacements, you will probably decide to pension off the old valves right away when you hear how much better your set sounds with the new ones!

As the failure of quite a small item among the set's components may interrupt your Christmas programmes, it is certainly worth while to keep handy a few minor spares (such as suitable fuse replacements, mains or battery types as the case may be) which may easily avert the catastrophe of a prolonged breakdown at the height of the festivities!

Having overhauled your set thoroughly, you may want to go a step farther and fit up one or two additions that will make it more versatile for Christmas and New Year gatherings. A gramophone equipment and a small microphone (if these are not already associated with the receiver) will greatly increase its entertainment value and usefulness for parties or dances and a suitable method of connecting these, and an extension loudspeaker if required, is described and illustrated in another article in this issue.

W. O.

WIRELESS TOPICS by "ION"

THE END OF "WIRELESS TOPICS"

I SHALL say farewell to all my readers in the next issue of this journal. For editorial reasons this feature is being discontinued as from the New Year. It was started on February 2, 1934, and has had a run of nearly two years. At that time the superheterodyne receiver was coming into wide use and it was felt that details should be given to our readers of the new and somewhat complicated commercial apparatus so that purchasers of such sets should know something of their design, construction and operation. Now this need is past and other more important editorial features are awaiting their turn to be introduced.

I should like, on this occasion, to thank every manufacturer and every publicity manager of wireless firms for the great help they gave in running this feature. Without their whole-hearted co-operation and readiness to supply both information and apparatus at a moment's notice to enable me to give as lucid a description as possible, I should have never succeeded in giving readers the service for which I have been responsible. I am also very grateful to every reader who has written to me making suggestions and saying a few kind words about my efforts. As I have said before, it has been impossible to give every reader advice as regards his (or her) future purchases of wireless receivers, as I do not consider myself qualified to do so, and certainly do not claim that I am intimately acquainted with every receiver design on the market. This is a physical impossibility. The advice I proffered and the advice I still give all my readers is to ask the local wireless dealer to demonstrate to you the sets in which you are interested. The British industry is so sound, on the whole, that one is very rarely let down by bad design. All that one has to do is to choose the receiver which best suits one's particular requirements. Some may want a battery receiver; some must have an A.C. model; others a D.C. model, and there are many who install a "universal" set which will suit both types of supply. Again there are many who desire to listen to short-wave stations in addition to those on the usual broadcasting bands. In this case one can have either a short-wave receiver, specially designed for the purpose, or have an all-wave set of which many excellent models are available. All this can be considered and compared in a wireless shop where many models are in stock. When still in doubt, a good plan to adopt is to write to the technical departments of the firms in whose sets you are interested and ask for advice. You will find that such advice will be readily and honestly given and, if a particular set is not suitable for your purpose, you will be frankly told so. And now, before we proceed with the review of a few items which I should like to mention before I finally close these columns, I take this opportunity to wish all my readers the Merriest of Christmases and a Very Happy and Prosperous New Year.

A NEW PHILCO DUAL-WAVE CAR RADIO

Philco inform me that they have introduced on the market a new car-radio set, Model 803T, which is British made and is a dual-wave receiver. The makers claim that this receiver combines the greatest attainable selectivity and sensitivity with a new high standard of performance and reliability. It gives faultless tone and a full range of some 40 long and medium-wave stations, without interference, the fidelity being equal to that of a modern domestic receiver.

There are two versions of the same model; Model 803T designed for a 12-volt supply and Model 803 for 6 volts. The makers state that Model 803T provides drawing-room reception on the road. It has a nine-stage superheterodyne circuit with 6 high-efficiency Philco valves arranged as follows: H.F. amplifier, oscillator-detector, intermediate-frequency amplifier, second detector and first low-frequency amplifier, two output valves, and a valve rectifier. An improved system of automatic volume control is incorporated. The current consumption is stated to be 2.6 amps. at 12 volts.

The long and medium-wave bands cover the following ranges: 938 to 2,000 metres and 200 to 566 metres respectively. The set has a built-in filter system ensuring silent background. An efficient vibrator supplying the H.T. circuit is also incorporated and neither dynamotor nor extra batteries are required, the car battery being the only source of electrical supply. The model in question is a compact, self-contained set, in a handsome round-cornered case of black crystal-finished steel, measuring only 10½ in. × 7½ in. × 7 in. and weighing only 18½ lbs. The set is mounted on rubber in a shock-proof chassis.

The installation is simplified by a special universal mounting, requiring only three bolts. No structural alterations to the car are necessary, the set can be changed easily from one vehicle to another, and can be installed in a few hours by any qualified garage or radio dealer. The neat remote control dial is transversely illuminated and designed for fitting to either the instrument panel or the steering column. There are three control knobs: (1) an on-off switch, combined with volume control and safety lock and key, (2) tuning control, and (3) engraved waveband selector. The control cables are of a new speedometer type, simple and easy to connect. The built-in loudspeaker is of a new and improved design of the energised moving-coil type. The set incorporates all the suggestions for safety made by the Ministry of Transport. Where a separate speaker is desired for limousine cars and passenger coaches, the following are available: Model 1803T for 12 volts and Model 1803 for 6 volts. With these models the energised moving-coil speaker is mounted in a handsome crystal-finished steel case 9½ in. diameter by 5½ in. deep, and is connected to the set by a metallic screened cable.

Demonstration and installation facilities are available throughout the British Isles in motor and radio dealers' premises. Philco's sole concessionaires to the motor trade are Delco-Remy and Hyatt, Ltd., the world's largest makers of automobile electrical equipment. They have collaborated with Philco since car radio was introduced, and have installed more sets than any other firm in this country—so Philco inform me. Throughout their nation-wide system of well-established depots in every important town are experts trained and equipped to install and service Philco car and coach radio efficiently. The Radio Trade is provided for by Philco's distribution organisation through accredited Philco dealers throughout the country. Where a radio dealer himself has no facilities for installing there is always a Delco station close at hand.

The prices are as follows: Models 803T and 803 are 19 guineas, and models 1803T and 1803 are 20 guineas each. All inquiries to Philco Radio and Television Corporation of Gt. Britain, Ltd., Perivale, Middlesex, England.

AN INTERESTING NEW TEST

Every radio dealer of experience knows that generally speaking, if a set is going to develop

faults it will usually do so during the first week of use at the customer's home. After that time a period of uninterrupted entertainment is normally enjoyed by the purchaser. It is with this important fact in mind that the people in charge of the assembly of sets at the E.M.I. factories at Hayes have devised a test, on the factory premises, which will duplicate that first important week in the home.

A huge batch of some 200 instruments is connected to the mains and switched on; they are all tuned in to some predetermined frequency and left running for twenty-four hours. During this time testers go round from one set to another to manipulate the controls and examine the more vulnerable components. Reckoning the average playing time in a purchaser's home to be roughly three hours a day, the twenty-four hour "soak" is equal to well over a week's use, with the added advantage that the factory run is continuous, thus giving a more exhaustive test. Twenty-four hours is considered to be the maximum time necessary, as the test proves to be no more effective at longer periods. The working life of the sets is not affected by more than an infinitesimal amount.

MARCONIPHONE AT A PEER'S TRIAL

Marconiphone inform me that they were entrusted with the installation of a public-address system, on the occasion of Lord de Clifford's trial before his fellow Peers, in the Royal Gallery of the House of Lords. The Royal Gallery being, unfortunately, acoustically dead, modern science had to come to the aid of those taking part in the trial, and the system installed by Marconiphone was one of the most elaborate that have ever been used. Eight microphones were installed and their disposition was as follows: one microphone for the use of the President of the Court, one microphone for Lord de Clifford, one for the witness-box, two in the centre of the Court, and three for the Counsel. Ten loudspeakers—which had been gilded to match the sumptuous surroundings in which they were situated—were suspended over the heads of the gathering, each loudspeaker working well below its capacity to ensure even and clear distribution of sound. From the microphones special cables were led to control panels situated in an alcove facing the entrance from the Norman tower. At these controls an experienced engineer was on duty and, listening by means of head-telephones to the proceedings in the Court, he had to switch the various microphones in and out of circuit at the appropriate moment. As only one person could speak at a time, only one microphone could be used at any one instant. The control panel was connected to the main amplifiers which were placed well away from the Royal Gallery.

As this was the first time that a public-address system has been used at such an important trial, every care had to be taken to ensure that the apparatus was as unobtrusive as possible. "Pitch controls" were fitted to the control panel, and the engineer-in-charge had to adjust the output to correspond to the pitch and volume of the voice of the person speaking.

DOMINION A.C. SHORT-WAVE SUPERHET

I was interested to hear from Messrs. Dominion Radio, of 740, Forest Road, Walthamstow, London, E.17, that they have placed on the market a new superhet which works on 8.5-15, 15-30, 30-60, 60-200, 200-550 metres. It is an A.C. model which I hope to be able to describe in the next issue. I also hear that another model is being prepared which will have a special waveband of from 6 to 10 metres.

Short-Wave News Reel

Wiley Post's First Aeroplane

WHILE listening to W8XK on Sunday evening, December 8, I heard an interesting programme, entitled "Believe it or Not," during which a short sketch was given telling how the late Wiley Post got his first aeroplane.

A workman in the oilfields was telling his friend about a second-hand aeroplane that was for sale. He was determined to get this 'plane, as he wanted to fly more than anything else in the world; in fact, he remarked to his friend that he would give his right eye for it. Soon after there was an accident in which the future aviator lost his left eye. He bought the 'plane with the money received as compensation—Wiley Post had given his left eye instead of the right for his first aeroplane.

Dinnington.

H. E.

"World-Radio" at Nairobi

For some time past I have been very anxious to qualify for a "Heard All Continents" certificate, but I found that reception of Africa proved comparatively difficult. On December 11, however, while listening around 50 metres at 16.40 (G.M.T.), I was surprised to hear a fairly strong station transmitting a selection by a military band. Next came the announcement: "VQ7LO, Nairobi, Kenya, broadcasting to you on 49.31 metres or 6,083 kilocycles through the East African Broadcasting Company. You have just heard the band of H.M. Coldstream Guards playing some of the hits from *The Quaker Girl*." This was followed by a recording of Debroy Somers and his band entitled "All the Latest—No. 2," and then, at 17.00, a special news bulletin. Details were given of the Italo-Abyssinian war "in the North" and also of the day's proceedings regarding this dispute in the House of Commons.

At the conclusion of this a few advertisements were broadcast and, clearly demonstrating this journal's popularity even in the remotest parts, an advertisement in WORLD-RADIO for wireless receivers was read. This interesting programme continued with "In Town Tonight" on the Gaumont-British organ at Chester.

Worthing.

F. W. H.

Melody from Cuba

The West Indies always possess an atmosphere of glamour and romance in the mind of the average Englishman, but very few of us are permitted to visit these sunny islands. Last Tuesday night, December 10, however, I was enabled to pay a call at Havana, the capital of Cuba, via the short waves. At about 22.40 an R6 signal was heard immediately above the all-powerful DJC. The station was broadcasting a programme of typical Spanish music, and at 22.45 announced, both in Spanish and English... "Short-Wave Station COCO in Havana, Cuba."

The items seemed to be an assortment of rumbas and tangos, with the latter predominating. This continued until 23.00, the Spanish announcer making lengthy announcements between each item, and repeating the call in Spanish and English. After another lengthy Spanish announcement the programme of music was resumed—but with a recording of a "blues" number played by a negro orchestra!

St. Ives, Cornwall.

C. N.

Australia v. South Africa

I was able—with the help of VK3LR—to enjoy the first day's play of the Test match between Australia and South Africa. South Africa were batting first, and the score stood at 100, with Rowan (or Ryan) twenty-one runs and batting when I tuned in. It was difficult to follow the commentator owing to the cheering of the crowd, which sometimes drowned his voice. The scoring ran as follows: 167 for 4, Ryan 61; 168 for 5; 184 for 5, during two hours' play. I tuned in again just in time to hear the final score—South Africa all out for 248, stumps being drawn at 5.57 p.m., Australian time.

As I listened to this broadcast I could not help thinking how extraordinary short-wave reception really was. Here was I amid the snow, listening to a game being played on a summer's day at the other side of the world.

Magherafelt, N. Ireland.

J. G.

Major Bowes's Family Party

Having read of Major Bowes's activities in the issue of WORLD-RADIO for October 25, it was with interest that I turned to W2XAD on Sunday, December 8, for "Major Bowes and his Family Party," from the Capitol Theatre, as announced in the short-wave programmes.

At 17.00 the voice of Major Bowes was heard introducing the programme, the first item being a song by an Italian tenor. After the orchestra had played a foxtrot, Joey Lang, described as "Radio's Sweet Singer," sang "Where Am I?" with orchestral accompaniment. Next a close harmony team, "The Sizzlers"—newcomers to the microphone—sang "The Wedding of Jack and Jill." Then followed an American bolero played by the orchestra, and a new song—sung by the composer, another newcomer to the microphone.

Finally the orchestra played "Ninette"—a tango with tenor and violin solos—and "the Sizzlers" sang "Lights Out." At 17.30 Major Bowes wished his "family" good-afternoon, and reminded them of a similar programme next Sunday.

Bristol.

J. O. E.

Correspondence

Georgetown, VP3MR

SIR,—Having sent a report on reception to the above station, I was very interested in the letter published in the November 15 issue. A QSL card has duly arrived confirming reception for September 14, and also for May 6 (Jubilee Day) when, in the early hours, I heard a Celebration Concert from this station.

The times of operating mentioned by J. N. (Dalkeith) have been considerably altered, the new schedule being as follows: Sundays, 12.45-15.15; Mondays, 20.45-21.45; Tuesdays, 21.45-23.45; Wednesdays, 21.45-00.45; Thursdays, 22.00-01.45; Saturdays, 21.45-00.45 (all G.M.T.). The original times as published by you are still on the card and have been crossed out and the new times overprinted.

VP3MR also writes as follows:—

"Our carrier power is 50 watts, but we expect shortly to increase to 300 watts. Early next year we expect to operate in the 25 and 49-metre bands." The card is dated 1/11/35.

Hoping this information will be of assistance to other readers of WORLD-RADIO.

Yours faithfully,

London, S.E.1.

W. A. C.

Short-Wave Notes

W4XB Miami, Florida (49.67 m.), is contemplating a change of schedule so that it will not at any time be broadcasting simultaneously with any other station on the same wavelength.

* * *

It is reported that a new Mexican station is now being heard on 48.5 m. Announcements are made in Spanish and English and the call-sign is XEXA. It is broadcasting daily and is reported to be heard best between midnight and 02.00. This station is owned by the Secretaria de Educacion Publica.

* * *

We learn that HI1J, San Pedro de Macoris, R.D., on 41.15 m. is now broadcasting daily from 17.10 to 19.40 and 23.10 to 01.40 (G.M.T.). It is owned by Fausto M. Danastorg, and the address to which reports should be sent is Radio-difusora HI1J, Calle Anacoano Moscoso 3, P.O. Box 204, San Pedro de Macoris, R.D., West Indies.

* * *

A station at Lima, Peru, on 22.21 m., using the call-sign OCJ2, has recently been heard giving a number of musical programmes and asking for reception reports, which should be addressed to All American Cables, Inc., Lima, Peru.

* * *

We understand that a new Mexican station is testing, announcing itself as XBJQ on 27.27 m., but the wavelength is reported to be nearer to 27.15 m. Reports are requested, which should be sent to Apartado 2825, Mexico City, Mexico D.F.

The joy
of
Receiving...



... Christmas
Programmes from
all over
the
world



Think of the joys of hearing Christmas programmes direct from New Zealand, America and Australia! An Eelex Short Wave Converter, quickly and easily fitted to your present set, will enable you to receive over 70 short-wave stations. There is a model available for use with most types of receivers. Write for a copy of Booklet D.47.

Prices from 52/6



J. J. EASTICK & SONS,
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Telephone: MET. 0314 (6 lines)

SHORT-WAVE BROADCASTING STATIONS

(Times of operation are given on the "twenty-four-hour clock" system, G.M.T.)

m.	kc/s	kW	Station	Dial Reading	m.	kc/s	kW	Station	Dial Reading
75	4000	0.05	Ponta Delgada (Azores) CT2AJ. WED., SAT., 22.00-00.00.	.....	31.8	9428	..	Havana (Cuba) COCH. 16.00-17.00; 22.00-23.00; 01.00-02.00.	.....
70.2	4273	20	Kharbarovsk RV15. 06.00-14.00.	.....	31.58	9500	15	Rio de Janeiro PRF5. 22.30-23.15.	.....
67.11	4470	I	Sourabaya (Java) YDB. 09.30-14.30.	.....	31.55	9510	15	*Daventry GSB.	.....
51.72	5800	I	Caracas (Venezuela) YV2RC. D'ly (ex. SUN.), 15.30-18.00; 20.30-02.00. SUN., 13.00-15.30. 18.00-22.30; 23.00-02.30.	.....	31.54	9518	1.5	Melbourne (Australia) VK3ME. WED., THURS., FRI., SAT., 10.00-12.00.	.....
51.50	5820	..	San Jose (Costa Rica) TIGPH. 00.00-04.00.	.....	31.48	9530	{	Jelöy LKJ1. 10.00-13.00; 16.00-23.00.	.....
51.28	5850	..	Maracaibo (Venez.) YV5RMO. 22.00-02.00.	.....	31.45	9540	40	Schenectady (N.Y.) W2XAF. 21.00-05.00; SUN. 21.15-05.00.	.....
50.6	5930	0.05	Medellin (Colombia) HJ4ABE. D'ly 16.00-17.00 MON., WED., FRI., 23.00-03.00. TUES., THURS., SAT., 00.15-04.00.	.....	31.38	9560	5	Zeesen DJN. 08.45-12.15; 22.05-03.30.	.....
50.26	5969	10	Vatican City (Italy) HVJ. Daily 19.00-19.15; SUN., 10.00.	.....	31.36	9565	5	Zeesen (Germany) DJA. 05.30-07.15; 13.00-16.30; 22.05-02.15.	.....
50.16	5980	0.2	Santo Domingo (D.R.) HIX. D'ly at 12.00. WED., SAT., 01.08; SUN., 00.38.	.....	31.35	9570	4.5	Bombay VUB. SUN., 17.30-18.30; THURS., and SAT., 16.30-17.30 (Irreg. MON.)	.....
50	6000	{	Mexico City XEBT. 00.00-09.00.	.....	31.32	9580	10	Millis (Mass.) W1XK. D'ly, 11.00-05.00; *Daventry GSC.	.....
49.95	6005	1.6	Moscow (U.S.S.R.) RW59.	.....	31.27	9590	15	Lyndhurst (Australia) VK3LR. MON. to FRI., 08.15-12.30; SUN., 03.00-12.30.	.....
49.92	6010	0.5	Bogotá (Colombia) HJ3ABH.	.....	31.25	9598	I	Philadelphia (Pa.) W3XAU. 17.00-01.00.	.....
49.85	6018	0.09	Havana (Cuba) COCO. 21.00-00.00; 01.00-03.00. SUN., 04.30-06.30 also.	.....	31.25	9598	20	Sydney (Australia) VK2ME. SUN., 06.00-08.00; 10.00-16.00.	.....
49.83	6020	5	Singapore (S.S.) ZHI. MON., WED., THURS., 23.00-01.30; SUN., 03.40-05.10.	.....	31.13	9635	20	Radio-Nations HBL. SAT., 10.30-11.15.	.....
49.75	6030	{	Zeesen DJC. 17.00-21.30; 22.05-03.30.	.....	31.01	9675	2	Lisbon (Portugal) CT1AA. TUES. and THURS. 22.00-00.00.	.....
49.67	6040	0.1	Panama City HP5B. 17.00-18.00; 01.00-03.30.	.....	31	9677	25	Rome (Italy) 2RO. D'ly 23.00-23.15; MON., WED., and FRI., 23.00-02.00; TUES. and THURS., 22.15-22.30.	.....
49.65	6042	0.1	Calgary (Alberta) VE9CA. THURS., 15.00-08.00. SUN., 18.00-06.00. Irreg. 15.00-06.00.	.....	30.43	9860	5	Zeesen (Germany) DJI.	.....
49.59	6050	5	Boston (Mass.) W1XAL. WED. & FRI., 00.15-02.15. SAT. 20.00-21.00.	.....	29.24	10,260	0.5	Lisbon (Portugal) CT1CT. THURS., 21.00-23.00; SUN., 12.00-14.00.	.....
49.5	6060	{	Miami W4XB. 17.00-19.30; 22.30-05.00.	.....	29.04	10,330	20	Madrid (Spain) EAQ 22.15-00.30; SAT., 18.00-20.00 also.	.....
49.45	6067	3	Pernambuco PRA8. Daily 20.00-00.30.	.....	28.01	10,710	..	Bandoeng (Java) PMN. SUN., 12.00-15.00.	.....
49.42	6070	1.5	Barranquilla HJ1ABG. 23.00-03.00.	.....	27.93	10,740	9	Ruyssedele (Belgium). ORK. 18.30-20.00.	.....
49.35	6079	15	*Daventry GSA.	.....	25.62	11,710	20	Tokio (Japan) JVN	.....
49.33	6080	10	Cincinnati W8XAL. 05.00-06.45; 11.15-04.50; SUN., 13.00-01.00; 04.00-07.00.	.....	25.6	11,720	..	Tokio JVM. TUES. and FRI. 19.00-20.00.	.....
49.31	6083	I	Philadelphia (Pa.) W3XAU. 01.00-04.00.	.....	25.53	11,750	..	Medellin (Colombia) HJ4ABA, 23.30-03.30.	.....
49.26	6090	0.5	Skamlebaek (Denmark) OXY. 18.00-11.30. SUN., from 16.00.	.....	25.49	11,770	2	Winnipeg CJRX, D'ly, 00.00-05.00; SAT., 21.00-06.00; SUN., 22.00-03.30.	.....
49.2	6097	{	Manizales (Colombia) HJ4ABL. 22.30-00.30.	.....	25.45	11,790	10	Radio-Colonial (Paris) FYA. 23.15-02.00; 04.00-06.00.	.....
49.18	6100	5	Vienna Experimental OER2.	.....	25.4	11,810	23	Huizen (Holland) PHI. D'ly (ex. TUES., WED.) 13.30-16.30; SAT. to 17.30.	.....
49.15	6105	5	Zeesen (Germany) DJM	.....	25.36	11,830	15	*Daventry GSD.	.....
49.1	6110	0.5	Chicago (Ill.) W9XAA. D'ly, 16.00-02.00.	.....	25.29	11,860	5	Zeesen (Germany) DJD. 17.00-21.30.	.....
49.02	6120	I	La Paz (Bolivia) CP5. 01.00-02.30.	.....	25.27	11,870	5	Boston (Mass.) W1XAL. TUES., THURS., from 00.15; SUN. 21.15-00.00.	.....
48.92	6130	0.5	Nairobi (Kenya) VQ7LO. SUN. 16.00-19.00. MON. to FRI., 10.45-11.15; 16.30-19.30. TUES. and THURS., 13.30-14.30. SAT., 16.00-20.00.	.....	25.23	11,880	25	Rome (Italy) 2RO. Daily 13.15-14.00; 14.15-16.00; 17.00-18.00; 18.45-22.15.	.....
48.86	6140	0.25	Bowmanville (Canada). CRCX. Daily 22.30-04.30. SUN., 20.00-04.30.	.....	25.22	11,880	I	Wayne (N.J.) W2XE. 23.00-03.00.	.....
48.78	6150	{	Johannesburg (S.A.) ZTJ. (Experimental.)	.....	25.29	11,860	2	Lisbon (Portugal) CT1AA. TUES., THURS., SAT., 21.30-00.00.	.....
48.4	6198	35	Bound Brook (N.J.) W3XAL. MON., WED., SAT., 23.00-06.00.	.....	25.27	11,870	15	*Daventry GSB.	.....
47.5	6316	10	Chicago (Ill.) W9XF. 02.00-07.00. (MON., WED., SAT., 06.00-07.00.)	.....	25.23	11,880	40	Pittsburgh W8XK. 22.00-02.00.	.....
47.05	6375	15	Manizales (Colombia) HJ4ABB. 01.00-04.00	.....	25.23	11,880	10	Radio-Colonial (Paris) FYA. 09.00-10.00; 16.15-23.00.	.....
46.87	6400	0.5	*Daventry GSL.	.....	25	12,000	20	Moscow (U.S.S.R.) RW59. SUN., 03.00-04.00; 15.00-16.00.	.....
46.52	6447	0.3	Calcutta (India) VUC. D'ly 07.06-08.06; Irreg. 13.06-16.36; SUN., 04.36-07.30.	.....	24.83	12,082	0.5	Lisbon (Portugal) CT1CT. SUN, 14.00-16.00; THURS., 20.00-21.00.	.....
46.21	6490	I	Wayne (N.J.) W2XE. 03.00-04.00.	.....	24.52	12,235	..	Reykjavik (Iceland) TFJ. SUN. 18.40-19.00.	.....
46	6520	0.18	Bandoeng (Java) YDA. 10.30-15.00.	.....	24.2	12,396	0.35	Paredo (Portugal) CT1GO. SUN., 15.00-16.30; TUES., THURS., FRI., 18.00-19.15.	.....
45.31	6620	0.25	Kuala Lumpur (F.M.S.) ZGE. SUN., TUES., and FRI., 11.40-13.40.	.....	22.94	13,075	..	Suva VPD. D'ly (ex. SUN.) 06.30-07.30.	.....
45	6667	40	Havana (Cuba) COCD. 23.00-05.00.	.....	22	13,635	10	Warsaw (Poland) SPW. 16.30-17.30.	.....
42.37	7080	2	Pittsburgh W8XK. 02.00-06.00.	.....	19.84	15,123	10	Vatican City HVJ. 10.00; 15.30-15.45.	.....
41.8	7177	0.5	Winnipeg CJRO. Daily 00.00-05.00; SAT., 21.00-06.00; SUN., 22.00-03.30.	.....	19.82	15,140	10	*Daventry GSF.	.....
39.95	7510	0.5	Lisbon (Por.) CSL. 12.14-17.24.	.....	19.74	15,200	5	Zeesen DJB. 13.00-16.30; 17.30-07.00.	.....
38.48	7797	..	Caracas (Venez.) YV3RC. 20.30-01.30.	.....	19.72	15,210	40	Pittsburgh W8XK. 14.00-00.00.	.....
36.5	8214	0.35	Paredo (Portugal) CT1GO. SUN., 16.30-18.00. Daily (ex. TUES.) 00.20-01.30.	.....	19.71	15,220	18	Eindhoven (Holland) PCJ. Experimental. TUES., 08.00-11.00; WED., 12.00-16.00; SUN., 13.30-16.30.	.....
34.29	8750	..	Santo Domingo (D.R.) HIZ. Daily 21.40-22.40. SUN., 16.00-17.30.	.....	19.68	15,243	10	Radio-Colonial (Paris) FYA. 11.55-16.00.	.....
32.88	9125	20	Caracas (Venez.). YV4RC. 21.30-03.30.	.....	19.66	15,260	10	*Daventry GSI.	.....
		..	San Jose (Costa Rica) TIGP. 22.00-04.00.	.....	19.64	15,270	I	Wayne (N.J.) W2XE. 18.00-23.00.	.....
		0.3	Barranquilla HJ1ABB. D'ly 21.30-03.00.	.....	19.63	15,280	5	Zeesen (Germany) DJQ. 04.30-06.00.	.....
		0.1	Cali (Colombia) HJ5ABD. 00.00-03.00.	.....	19.56	15,330	20	Schenectady W2XAD. Daily 19.00-20.00; SUN., 15.30-21.00.	.....
		0.5	Valencia (Venezuela) YV6RV. 17.00-18.00; 23.00-03.00.	.....	19.52	15,370	6	Budapest HAS3. SUN., 14.00-15.00.	.....
		..	Riobamba PRADO. FRI., 02.00-04.30.	.....	16.89	17,760	{	Zeesen (Germany) DJE. 13.00-16.30.	.....
		0.2	Guayaquil (Ecuador) HC2RL. SUN., 22.45-12.45; WED., 02.15-04.15.	.....	16.87	17,780	I	Wayne (N.J.) W2XE 16.00-18.00.	.....
		0.05	Georgetown (British Guiana) VP3MR.	.....	16.86	17,790	35	Bound Brook W3XAL. 14.00-22.00.	.....
		0.5	Lobito (Angola) CR6AA. WED., SAT., 19.30-21.30.	.....	15.93	18,830	10	*Daventry GSG.	.....
		20	Tokio (Japan) JVP. TUES. & FRI. 19.00-20.00.	.....	13.97	21,470	60	Bandoeng (Java) PLE. TUES., THURS., SAT., 15.00-15.30.	.....
		20	Radio-Nations HBP. SAT., 22.30-23.15.	.....	13.94	21,520	10	*Daventry GSH.	.....
		0.25	Quito (Ecuador) HCJB. D'ly (ex. MON.) 17.15-19.00; 00.00-04.00.	.....	13.93	21,530	I	Wayne (N.J.) W2XE 15.00-16.00.	.....
		0.5	Hong-Kong ZCK. 04.30-06.15; 09.00-15.00.	.....	13.93	21,540	10	*Daventry GSI.	.....
		5	Budapest (Hun'y) HAT4. SUN., 23.00-00.00.	13.93	21,540	40	Pittsburgh W8XK. 12.00-14.00.

*For transmission times see Short-Wave Programmes.



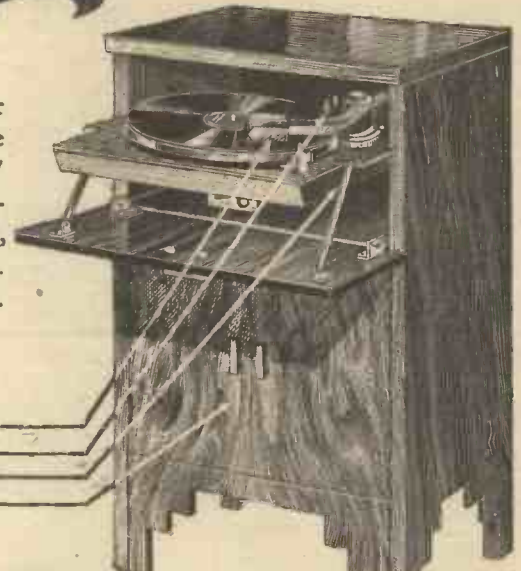
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WIDTH, 19 ins.
DEPTH, 15 ins.

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This self-contained convertor can be added to any mains receiver either superhet or straight type. There are no coils to be changed as a switch controls the three ranges of wave bands which cover 12 to 85 metres. An improved method of tuning is employed, the 100 to 1 tuning dial makes for simple and perfect handling. You do not disconnect when changing to normal broadcast: just switch over. Ready for use after making only two simple connections to your present set.

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	Call	kc/s	m.
Daventry	GSA	6,050	49.59
Daventry	GSB	9,510	31.55
Daventry	GSC	9,580	21.32
Daventry	GSD	11,750	25.53
Daventry	GSE	11,860	25.29
Daventry	GSF	15,140	19.82
Daventry	GSG	17,790	16.86
Daventry	GSI	15,260	19.66
Daventry	GSL	6,110	49.1
Bombay (India)	VUB	9,565	31.36
		15,250	19.67
		11,790	25.45
		6,040	49.67
Budapest (Hungary)	HAS3	15,370	19.52
Budapest (Hungary)	HAT4	9,125	32.88
Caracas (Venezuela)	YV2RC	5,800	51.72
Eindhoven (Holland)	PCJ	15,220	19.71
Huizen (Holland) (Holland-India Broadcasting Station PHOHI)	PHI	11,730	25.57
Madrid (Spain)	EAQ	9,860	30.43
		12,000	25
Moscow (U.S.S.R.)	RW59	6,000	50
		12,396	24.2
Paredo (Portuguese Radio-Club)	CTIGO	6,198	48.4

	Call	kc/s	m.
Paris (France) (Radio-Colonial)	FYA	11,880	25.23
		11,720	25.6
		15,210	19.72
Pittsburgh (Pa., U.S.A.)	W8XK	11,870	25.27
		6,140	48.86
Rio de Janeiro (Brazil)	PRF5	9,501	31.58
Rome (Italy)	ZRO	11,810	25.4
		9,635	31.13
Ruyssedele (Belgium)	ORK	10,330	29.04
Schenectady (New York, U.S.A.)	W2XAD	15,330	19.56
Schenectady (New York, U.S.A.)	W2XAF	9,530	31.48
Skamlebaek (Denmark)	OXY	6,060	49.5
Suva (Fiji)	VPD	13,075	22.94
Tokio (Japan)	JVM	10,740	27.93
Tokio (Japan)	JVP	7,510	39.95
		15,123	19.84
Vatican City (Italy)	HVJ	5,969	50.26
		9,560	31.38
Zeesen (Germany)	DJB	15,200	19.74
Zeesen (Germany)	DJC	6,020	49.83
Zeesen (Germany)	DJD	11,770	25.49
Zeesen (Germany)	DJN	9,540	31.45
Zeesen (Germany)	DJQ	15,280	19.63

19.15—Household Chats. 19.30—Pfte. Pals. 19.45—Talk. 19.50—South Sea Islanders. (b) 21.00—Sketch. 21.15—How to be Charming. 21.30—Markets. 21.45—Music. 22.00—Al Pearce's Gang. 22.30—Tom Mix. 22.45—Clara Lu 'n' Em. 23.00—Flying Time. 23.15 Sketch. 23.30—News. 23.35—Talk. 23.45—News. 23.50—Music. 00.00—Amos 'n' Andy. 00.15—Uncle Ezra. 00.30—Markets. 00.50—News (Span.). 01.00—Spanish Programme. 01.30—Concert. 02.00—A & P Gipsies. 02.30—Grace Moore. 03.00—Contented Hour. 03.30—Forum. 04.00—News. 04.05—Dance Music. 04.15—Crooner. 04.30—Orchestra. 04.45-05.00—Organ.

SKAMLEBAEK (OXY), 18.00 till Close—Kalundborg Programme. SUVA, FIJI, 05.30-06.30—Records. VATICAN CITY, (a) 10.00—Religious Notes (Ital.). (b) 19.00—Religious Notes (Ital.). ZEESEN (DJB, DJN), 08.45—Announcements (Ger., Eng.). 09.00—Carols. 09.15—Music. 09.30—News (Eng.). 09.45—Music. 10.45—News. 11.00—Music. 12.00—News (Eng.). ZEESEN (DJA, DJB, DJN), 13.00—Announcements (Ger., Eng.). 13.15—Bach Cantata. 13.45—News in Eng. (DJA) and Dutch (DJB, DJN). 14.00—Choirs. 15.15—News. 15.30—Topical. 15.45—Dance Music. 16.15—See 13.45. ZEESEN (DJD, DJC), 17.00—Announcements (Ger., Eng.). 17.15—News. 17.30—Christmas Programme. 18.30—Light Music. 19.00—News (Eng.). 19.15—Germany To-day. 19.30—Christmas Programme. 20.30—Play. 21.00—News (Ger., Eng.). 22.00—See 17.00. 22.05—See 17.30. 22.35—Economics. 22.45—News. 23.00—Topical. 23.15—See 19.30. 00.15—See 19.15. 00.30—Music. 00.45—Musical Play. 01.15—News (Eng.). 01.30—Play. 02.00—News. 02.15—Music. 03.30—See 17.00. ZEESEN (DJN, DJA), 22.00—Announcements (Ger., Eng.). 22.05—For Hitler Youth. 22.35—Economics; News. 23.00—Topical. 23.15—Variety. 00.15—News (Span.). 00.30—Light Music. 00.45—"The Christmas Dream"—Musical Play (Simlinger). 01.15—Topical. 01.30—"The Night before Christmas"—Play (Theile). 02.00—News. 02.15 (DJN)—Light Music: (DJA) See 22.00. 03.30 (DJN)—See 22.00.

Talk (Ger.). 21.05—Talk (Fr.). 22.00—Talk (Dutch). PARIS (Radio-Colonial), (a) 22.30—News (Span., Port.). 23.00—Sports. (b) 23.15—Music. 00.15—News. (Fr., Span.). 01.00—News (Eng.); Dance Band. 04.00—News. 04.20—News (Span., Ger.). PITTSBURGH (a) 20.00—Citrus Health. 20.05—Music. 20.15—Mac and Blaine. 20.30—Back Stage Wife. 20.45—Congress of Clubs. 21.00—Betty and Bob—Sketch. 21.15—Four Dynamos of Rhythm. 21.30—Concert. (a, b) 22.00—For Children. 22.15—Plough Boys. 22.30—Songs. 22.45—For Children. 23.00—News. 23.15—The O'Malleys. 23.30—Dan and Sylvia. 23.45—Lowell Thomas—Topical. (b) 00.00—Easy Aces—Sketch. 00.15—Randolph Orchestra. 00.30—Variety. 01.00—Mystery Drama. 01.30—Welcome Valley—Sketch. (b, c) 02.00—Ben Bernie's Lads. 02.30—Helen Hayes. 03.00—Wendell Hall. 03.15—Town Meeting. 04.00—News; Sports. 04.15—Lovell Column. 04.30-06.00—Orchestra.

RIO DE JANEIRO (PRF5), 22.30—News (Port.). 23.00—Talks (Various Languages). ROME, (a) 13.15—Mediterranean Programme. 17.00-18.00 and 18.45-19.30—From Rome (420.8 m.). (b) 23.20—News (It., Span., Port.). Sir Oluf—Opera (Franchetti). Tourist Talk—News (Span., Port.). RUYSSSELEDE, 19.30—News (Flem., Fr.). 20.00—From Brussels (I). SCHENECTADY, (a) 19.00—Household Chats. 19.15—Household Chats. 19.30—Oct. 19.45—Health Hunters. (b) 21.00—Sketch. 21.15—Bridge. 21.30—Stocks. 21.45—Matinee. 22.00—Music. 22.15—Boston Civic Orchestra. 22.30—Newcomers. 22.45—Clara Lu 'n' Em. 23.00—Flying Time. 23.15—Hymns. 23.30—News; Mail Bag. 00.00—Amos 'n' Andy. 00.15—00.50—The Sailor. 00.30—Stocks. 00.50—News (Span.). 01.00—Spanish Music. 01.30—Orchestra. 02.00—N.T.G. Girls. 02.30—Jumbo Fire Chief. 03.00—Studio Party. 03.30—Great Moments in History. 04.00—News (Flem.). 04.15—Orchestra. 04.45-05.00—Organ. SKAMLEBAEK (OXY), 18.00 till Close—Kalundborg Programme. SUVA, FIJI, 05.30-06.30—Records. TOKIO (JVP), 19.00—Announcements; News (Eng.). 19.15—Variety. 19.45-20.00—News. VATICAN CITY, (a) 10.00—Religious Notes (Eng.). (b) 19.00—Religious Notes (Ital.). ZEESEN (DJB, DJN), 08.45—Announcements (Ger., Eng.). 09.00—Songs and Music. 09.30—News (Eng.). 09.45—Variety. 10.45—News. 11.00—Music. 12.00—News (Eng.). ZEESEN (DJA, DJB, DJN), 13.00—Announcements (Ger., Eng.). 13.15—Songs and Band. 13.45—News in Eng. (DJA) and Dutch (DJB, DJN). 14.00—Carols and Address. 14.15—Variety. 15.15—News. 15.30—Topical. 15.45—Christmas Dream. ZEESEN (DJD, DJC), 17.00—Announcements (Ger., Eng.). 17.15—News. 17.30—Carols and Band. 18.00—Carols. 18.15—Orchestra. 19.00—News (Eng.). 19.15—Germany To-day. 19.30—Concert. 20.30—Folk Music. 21.00—News (Ger., Eng.). 22.05—See 17.30. 22.35—Economics. 22.45—News. 23.00—Topical. 23.15—See 19.30. 23.30—Carols. 23.15—See 19.30. 00.15—Germany To-day. 00.30—See 18.15. 01.15—News (Eng.). 01.30—See 20.30. 02.00—News. 02.15—Music. ZEESEN (DJN, DJA), 22.00—Announcements (Ger., Span., Port.). 22.05—Chimes. 22.35—Economics; News. 23.00—Carols. 23.15—Concert. 00.15—News (Span., Port.). 00.30—Orchestra. 01.15—Topical. 01.30—Folk Music. 02.00—News. 02.15 (DJN)—Music; (DJA) News (Ger., Port.). 03.30 (DJN)—News (Span.).

* Electrical Recording
† Gramophone Records

SUNDAY, December 22

EMPIRE
Transmission 1 (GSF, GSB), 08.30—Big Ben. Wales v New Zealand—Rugby.* 10.0—Oscar Lampe (Violin). 10.15—Newsletter; Sports Summary. 10.35—Close.
Transmission 2 (GSG, GSF), 12.00—Big Ben. Newsletter; Sports Summary. 12.20—Interlude.† 12.30—Marie Hall (Violin). 12.55—Wales v New Zealand—Rugby.* 13.45—Close.
Transmission 3 (14.00-15.30 GSF, GSE; 15.30-17.00 GSE, GSB), 14.00—Big Ben. Service.* 14.50—Interlude.† 14.55—Talk.* 15.15—Band. 16.00—Septet. 16.30—Newsletter; Sports Summary. 16.50—Trio. 17.00—Close.
Transmission 4 (17.15-19.15 GSI, GSD, GSB; 19.15-20.45 GSI, GSD, GSB; 21.00-22.45 GSC, GSB), 17.15—Big Ben. Interlude.† 17.20—Orchestra. Antonia Butler (Cello). 18.00—Newsletter; Sports Summary. 18.20—Oratorio.† 18.30—Orchestra. 18.55—Recital. 19.55—Service. 20.45—Close. 21.00—Orchestra. 22.00—Newsletter; Sports Summary. 22.20—Quintet; Olive Groves (Soprano). 22.45—Close.
Transmission 5 (GSC, GSA), 23.00—Big Ben. Service.* 23.45—Orchestra; Arnold Matters (Baritone). 00.45—Newsletter; Sports Summary. 01.05—Close.
Transmission 6 (GSC, GSI), 03.00—Big Ben. Musical Olographs.* 03.30—"High Spots" (9)*. 03.45—Newsletter; Sports Summary. 04.05—Close.
BUDAPEST, (a) 14.00—Greetings; Choir (Records); Anthem. (b) 23.00—Greetings; Records; Anthem.
CARACAS, 13.30—Roman Catholic Service; Records. 14.30—Baseball. 16.30—Music. 19.15—Racing. 22.30—Dance Music. 01.00—Band.
EINDHOVEN (PCJ), Relays Huizen (PHI).
HUIZEN (PHI), 13.00—Announcements. 13.10—Music. 13.30—News. 13.45—Music. 13.55—Y.M.C.A. Talk. 14.10—Music. 14.15—Microphone Debutants. 14.30—Music. 14.40—K.R.O. Programme. 15.40-16.00—Dance Music.
MADRID (EAQ), 22.15—News. 22.30—Music. 23.00—From Madrid (EAJ7). 23.45—Music. 00.00—Variety. 00.35—Music. 01.12—Recitations. 01.18—Music. 01.30—Theatre Notes. 01.45—Recitations, Songs. 02.00—News. 02.15-02.30—Music.
MOSCOW, 11.00—Weekly Review (Eng.); Questions and Answers (Eng.). 12.00—Winter Sports Report (Fr.). 14.00—For Children. 15.00—See 11.00. 17.30—"Faust" (Gounod). 20.00—Talk (Ger.). 21.05—See 11.00. 22.00—Talk (Ger.).

Tenor. 00.30—Orchestra; Songs. 01.00—Musical Comedy. 01.45—Van Loon—Book Talk. (b, c) 02.00—Songs; Orchestra. 02.30—Walter Winchell. 02.45—Songs. 03.00—Hymns; Philosophy. 03.30—Y.M.C.A. Programme. 04.00—Singers. 04.15—Missionary Broadcast. 05.00-06.00—Orchestras.
ROME, (a) 13.15—Mediterranean Programme. 17.00-18.00 and 18.45-19.30—From Rome (420.8 m.).
RUYSSSELEDE, 19.30—News (Flem., Fr.). 20.00—From Brussels (I).
SCHENECTADY, (a) 19.00—Orchestra. 19.30—Voice of the People. 20.00—Levitow Ensemble. 20.30—Music. (b) 21.15—Sketch. 21.30—Soprano. 21.45—What's in a Name? 22.00—Serenade. 22.30—Dream Drama. 22.45—Music. 23.00—Roman Catholic Hour. 23.30—Orchestra. 00.00—Spy Story. 00.30—Recital. 00.45—Morin Sisters and Ranch Boys. 01.00—Major Bowes' Amateurs. 02.00—Merry-Go-Round. 02.30—Revue. 03.00—Concert. 04.00—Melody Master. 04.30-05.00—News. 16.00-17.20 SKAMLEBAEK (OXY), 16.00-17.20 and 18.00 till Close—From Kalundborg.
ZEESEN (DJB, DJN), 08.45—Announcements (Ger., Eng.). 09.00—For Hitler Youth. 09.15—Talk. 09.30—News (Eng.). 09.45—Opera. 10.45—News. 11.00—Music. 12.00—News (Eng.).
ZEESEN (DJA, DJB, DJN), 13.00—Announcements (Ger., Eng.). 13.15—Service. 13.30—For Girls. 13.45—News in Eng. (DJA) and Dutch (DJB, DJN). 14.00—Orchestra. 15.15—News. 15.30—Sketch. 16.15—See 13.45.
ZEESEN (DJD, DJC), 17.00—Announcement (Ger., Eng.). 17.15—News. 17.30—Announcements. 17.45—For Children. 18.00—Concert. 19.00—News (Eng.). 19.15—Play. 20.00—Sports. 20.15—Cantata (Bach). 20.45—Music. 21.00—News (Ger., Eng.). 22.00—See 17.00. 22.05—For Children. 22.45—News. 23.00—Service. 23.15—Concert. 00.15—News (Span.). 00.30—"Peasant Legend"—Sketch (Bauer). 01.15—Sports. 01.30—"Dazu ist erschienen der Sohn Gottes"—Cantata (Bach). 02.00—News. 02.15 (DJN)—Band; (DJA) See 22.00. 03.30 (DJN)—See 22.00.

Transmission 4 (17.15-19.15 GSI, GSD, GSB; 19.15-21.00 GSI, GSD, GSB; 21.15-22.45 GSC, GSB), 17.15—Big Ben. Dance Music. 18.00—News. 18.15—Variety.† 18.30—Orchestra. 19.15—"Aladdin." 20.00—Carols of other Countries. 20.30—"High Spots" (9)*. 20.45—Joyce Kadish (Pfte.). 21.00—Close. 21.15—Christmas Talk.* 21.30—Trio. 22.00—News. 22.15—Dance Music. 22.45—Close.
Transmission 5 (GSC, GSA), 23.00—Big Ben. Berkeley Mason (Organ). 23.30—Talk.* 23.50—Parry Jones (Tenor). 00.15—Septet; Vera Kastelien (Soprano)*. 00.45—News. 01.00—Close.
Transmission 6 (GSC, GSI), 03.00—Big Ben. New Records. 03.30—Short Story. 03.45—News. 04.00—Close.
CARACAS, 16.00-18.30—Records; Songs. 21.00—Music; Songs. 22.15—For Children. 22.30—Dance Music; Songs. 23.00—News; Variety; Orchestra. 00.15—Travelogues; Orchestra. 00.45—Duets; Orchestra. 01.30—Amateurs. 02.00—Dance Music; Crooner. 02.30-03.00—Talks.
HUIZEN (PHI), 13.00—Announcements. 13.10—The Three Synopators. 13.25—Music. 13.30—News. 13.45—Music. 13.55—Sports. 14.05—Music. 14.10—Announcements. 14.30—The Three Synopators. 14.45-15.00—Dance Music.
MADRID (EAQ), 22.15—News. 22.30—Music. 22.48—News (Span., Eng., Fr.). 23.00—Catalan Talk. 00.00—News. 00.15—Music. 01.30—Sports. 01.45—Music. 02.00—News. 02.15-02.30—Music.
MOSCOW, 17.00—Talk (Span.). 17.30—The Tsar's Bride (Rimsky-Korsakov). 20.00—Talk (Ger.). 21.05—English Programme: Interview with an Oil Institute Student. 22.00—Talk (Hungarian).
PARIS (Radio-Colonial), (a) 22.30—News (Span., Port.). 23.00—Sports. (b) 23.15—Concert. 00.15—News (Fr., Span.). 01.00—News (Eng.); Records. 04.00—News. 04.20—News (Eng.). 02.00—Records. 05.30—News (Span., Ger.).
PITTSBURGH, (a) 20.00—Citrus Health. 20.05—Strollers Matinee. 20.30—Back Stage Wife. 20.45—Charm. 21.00—Sketch. 21.15—Strings. 21.30—Let's talk it over. (a, b) 22.00—For Children. 22.15—Plough Boys. 22.30—Songs. 22.45—For Children. 23.00—News. 23.15—Band. 23.30—Dan and Sylvia. 23.45—Lowell Thomas—Topical. (b) 00.00—Forum. 00.15—Stamp Club. 00.30—To be announced. 00.45—Sketch. 01.00—McGee and Molly—Sketch. 01.30—Vocal Trio. (b, c) 02.00—Minstrels. 02.30—Drama. 03.00—To be announced. 03.30—Band. 04.00—News. 04.15—Negro Quartet. 04.30—Ray Noble's Orchestra. 05.00—Fight Review. 05.08-06.00—Orchestras.
RIO DE JANEIRO (PRF5), 22.30—News (Port.). 23.00—Talks (Various Languages).
ROME, (a) 13.15—Mediterranean Programme. 17.00-18.00 and 18.45-19.30—From Rome (420.8 m.). (b) 22.59—American Hour from Rome. News (Eng., It.). Gianni Schicchi (Puccini). Talk.
RUYSSSELEDE, 19.30—News (Flem., Fr.). 20.00—Records.
SCHENECTADY, (a) 19.00—Tenor.

19.15—Household Chats. 19.30—Pfte. Pals. 19.45—Talk. 19.50—South Sea Islanders. (b) 21.00—Sketch. 21.15—How to be Charming. 21.30—Markets. 21.45—Music. 22.00—Al Pearce's Gang. 22.30—Tom Mix. 22.45—Clara Lu 'n' Em. 23.00—Flying Time. 23.15 Sketch. 23.30—News. 23.35—Talk. 23.45—News. 23.50—Music. 00.00—Amos 'n' Andy. 00.15—Uncle Ezra. 00.30—Markets. 00.50—News (Span.). 01.00—Spanish Programme. 01.30—Concert. 02.00—A & P Gipsies. 02.30—Grace Moore. 03.00—Contented Hour. 03.30—Forum. 04.00—News. 04.05—Dance Music. 04.15—Crooner. 04.30—Orchestra. 04.45-05.00—Organ.

SKAMLEBAEK (OXY), 18.00 till Close—Kalundborg Programme. SUVA, FIJI, 05.30-06.30—Records. VATICAN CITY, (a) 10.00—Religious Notes (Ital.). (b) 19.00—Religious Notes (Ital.). ZEESEN (DJB, DJN), 08.45—Announcements (Ger., Eng.). 09.00—Carols. 09.15—Music. 09.30—News (Eng.). 09.45—Music. 10.45—News. 11.00—Music. 12.00—News (Eng.). ZEESEN (DJA, DJB, DJN), 13.00—Announcements (Ger., Eng.). 13.15—Bach Cantata. 13.45—News in Eng. (DJA) and Dutch (DJB, DJN). 14.00—Choirs. 15.15—News. 15.30—Topical. 15.45—Dance Music. 16.15—See 13.45. ZEESEN (DJD, DJC), 17.00—Announcements (Ger., Eng.). 17.15—News. 17.30—Christmas Programme. 18.30—Light Music. 19.00—News (Eng.). 19.15—Germany To-day. 19.30—Christmas Programme. 20.30—Play. 21.00—News (Ger., Eng.). 22.00—See 17.00. 22.05—See 17.30. 22.35—Economics. 22.45—News. 23.00—Topical. 23.15—See 19.30. 00.15—See 19.15. 00.30—Music. 00.45—Musical Play. 01.15—News (Eng.). 01.30—Play. 02.00—News. 02.15—Music. 03.30—See 17.00. ZEESEN (DJN, DJA), 22.00—Announcements (Ger., Eng.). 22.05—For Hitler Youth. 22.35—Economics; News. 23.00—Topical. 23.15—Variety. 00.15—News (Span.). 00.30—Light Music. 00.45—"The Christmas Dream"—Musical Play (Simlinger). 01.15—Topical. 01.30—"The Night before Christmas"—Play (Theile). 02.00—News. 02.15 (DJN)—Light Music: (DJA) See 22.00. 03.30 (DJN)—See 22.00.

Talk (Ger.). 21.05—Talk (Fr.). 22.00—Talk (Dutch). PARIS (Radio-Colonial), (a) 22.30—News (Span., Port.). 23.00—Sports. (b) 23.15—Music. 00.15—News. (Fr., Span.). 01.00—News (Eng.); Dance Band. 04.00—News. 04.20—News (Span., Ger.). PITTSBURGH (a) 20.00—Citrus Health. 20.05—Music. 20.15—Mac and Blaine. 20.30—Back Stage Wife. 20.45—Congress of Clubs. 21.00—Betty and Bob—Sketch. 21.15—Four Dynamos of Rhythm. 21.30—Concert. (a, b) 22.00—For Children. 22.15—Plough Boys. 22.30—Songs. 22.45—For Children. 23.00—News. 23.15—The O'Malleys. 23.30—Dan and Sylvia. 23.45—Lowell Thomas—Topical. (b) 00.00—Easy Aces—Sketch. 00.15—Randolph Orchestra. 00.30—Variety. 01.00—Mystery Drama. 01.30—Welcome Valley—Sketch. (b, c) 02.00—Ben Bernie's Lads. 02.30—Helen Hayes. 03.00—Wendell Hall. 03.15—Town Meeting. 04.00—News; Sports. 04.15—Lovell Column. 04.30-06.00—Orchestra.

RIO DE JANEIRO (PRF5), 22.30—News (Port.). 23.00—Talks (Various Languages). ROME, (a) 13.15—Mediterranean Programme. 17.00-18.00 and 18.45-19.30—From Rome (420.8 m.). (b) 23.20—News (It., Span., Port.). Sir Oluf—Opera (Franchetti). Tourist Talk—News (Span., Port.). RUYSSSELEDE, 19.30—News (Flem., Fr.). 20.00—From Brussels (I). SCHENECTADY, (a) 19.00—Household Chats. 19.15—Household Chats. 19.30—Oct. 19.45—Health Hunters. (b) 21.00—Sketch. 21.15—Bridge. 21.30—Stocks. 21.45—Matinee. 22.00—Music. 22.15—Boston Civic Orchestra. 22.30—Newcomers. 22.45—Clara Lu 'n' Em. 23.00—Flying Time. 23.15—Hymns. 23.30—News; Mail Bag. 00.00—Amos 'n' Andy. 00.15—00.50—The Sailor. 00.30—Stocks. 00.50—News (Span.). 01.00—Spanish Music. 01.30—Orchestra. 02.00—N.T.G. Girls. 02.30—Jumbo Fire Chief. 03.00—Studio Party. 03.30—Great Moments in History. 04.00—News (Flem.). 04.15—Orchestra. 04.45-05.00—Organ. SKAMLEBAEK (OXY), 18.00 till Close—Kalundborg Programme. SUVA, FIJI, 05.30-06.30—Records. TOKIO (JVP), 19.00—Announcements; News (Eng.). 19.15—Variety. 19.45-20.00—News. VATICAN CITY, (a) 10.00—Religious Notes (Eng.). (b) 19.00—Religious Notes (Ital.). ZEESEN (DJB, DJN), 08.45—Announcements (Ger., Eng.). 09.00—Songs and Music. 09.30—News (Eng.). 09.45—Variety. 10.45—News. 11.00—Music. 12.00—News (Eng.). ZEESEN (DJA, DJB, DJN), 13.00—Announcements (Ger., Eng.). 13.15—Songs and Band. 13.45—News in Eng. (DJA) and Dutch (DJB, DJN). 14.00—Carols and Address. 14.15—Variety. 15.15—News. 15.30—Topical. 15.45—Christmas Dream. ZEESEN (DJD, DJC), 17.00—Announcements (Ger., Eng.). 17.15—News. 17.30—Carols and Band. 18.00—Carols. 18.15—Orchestra. 19.00—News (Eng.). 19.15—Germany To-day. 19.30—Concert. 20.30—Folk Music. 21.00—News (Ger., Eng.). 22.05—See 17.30. 22.35—Economics. 22.45—News. 23.00—Topical. 23.15—See 19.30. 23.30—Carols. 23.15—See 19.30. 00.15—Germany To-day. 00.30—See 18.15. 01.15—News (Eng.). 01.30—See 20.30. 02.00—News. 02.15—Music. ZEESEN (DJN, DJA), 22.00—Announcements (Ger., Span., Port.). 22.05—Chimes. 22.35—Economics; News. 23.00—Carols. 23.15—Concert. 00.15—News (Span., Port.). 00.30—Orchestra. 01.15—Topical. 01.30—Folk Music. 02.00—News. 02.15 (DJN)—Music; (DJA) News (Ger., Port.). 03.30 (DJN)—News (Span.).

MONDAY, December 23

EMPIRE
Transmission 1 (GSF, GSB), 08.30—Big Ben. New Records. 09.00—Sports Talk.* 09.15—Parry Jones (Tenor). 09.40—Dance Music.* 10.15—News. 10.35—Close.
Transmission 2 (GSG, GSF), 11.00—Big Ben. "The Emperators."* 11.45—Orchestra. 12.45—Sports Talk.* 13.00—News. 13.20—Opera.† 13.45—Close.
Transmission 3 (14.00-15.30 GSF, GSE; 15.30-17.00 GSE, GSB), 14.00—Big Ben. Orchestra. 14.20—"Round London at Night."* 15.00—Orchestra. 16.00—Christmas Talk. 16.15—Gipsy Band. 16.30—News. 16.50—Irene Scharer (Pfte.).† 17.00—Close.

Transmission 4 (17.15-19.15 GSI, GSD, GSB; 19.15-21.00 GSI, GSD, GSB; 21.15-22.45 GSC, GSB), 17.15—Big Ben. Dance Music. 18.00—News. 18.15—Variety.† 18.30—Orchestra. 19.15—"Aladdin." 20.00—Carols of other Countries. 20.30—"High Spots" (9)*. 20.45—Joyce Kadish (Pfte.). 21.00—Close. 21.15—Christmas Talk.* 21.30—Trio. 2

Day Programme. 15.05—
 "Messiah."† 15.15—Orchestra;
 Harry Wendon (Tenor). 16.45—
 News. 16.50—Quintet. 17.00—
 Close.

Transmission 4 (17.15-19.15 GSI,
 GSD, GSB; 19.15-21.30 GSI,
 GSD, GSB; 21.45-22.45 GSC,
 GSB), 17.15—Big Ben. Dance
 Music. 18.00—News. 18.05—
 Christmas Day Programme.* 18.45—
 Orchestra.† 19.15—Boar's Head
 Ceremony. 19.30—Radio Christmas
 Party. 21.30—Close. 21.45—
 Recital. 22.00—News. 22.05—
 Dance Music. 22.20—Variety.
 22.30—Dance Music. 22.45—Close.

Transmission 5 (GSC, GSA), 23.00—
 Big Ben. Christmas Day Pro-
 gramme.* 23.40—Christmas
 Anthology.* 00.15—Dance
 Music.† 00.20—Boar's Head
 Ceremony.* 00.35—Recital. 00.55
 —News. 01.00—Close.

Transmission 6 (GSC, GSI), 03.00—
 Big Ben. Christmas Songs. 03.20—
 News. 03.25—Christmas Day
 Programme.* 04.05—Close.

BOMBAY, 14.30-15.05—Special Em-
 pire Broadcast, followed by the
 King's Speech from Sandringham.

CARACAS, 16.00-18.30—Records;
 Songs. 21.00—Music; Songs. 22.15—
 For Children. 22.30—Dance
 Music; Songs. 23.00—News;
 Music; Humour. 00.15—Songs;
 Dance Music. 00.45—Talks;
 Music. 01.30-02.30—Musical Comed-
 ies.

HUIZEN (PHI), 13.00—Announce-
 ments. 13.05—Chimes. 13.10—
 Orchestra. 13.30—News. 13.45—
 Orchestra. 14.10—Music. 14.20—
 Excerpts. "A Christmas Carol"
 (Dickens). 15.20-15.30—Chimes.

MADRID (EAQ), 22.15—News. 22.30—
 Music. 22.45—News. 23.00—
 Literary Programme. 23.10—Music.
 23.30—News (Span., Eng., Fr.).
 23.40—Music. 00.00—For Eng.
 Listeners. 00.35—Music. 01.00—
 For Children. 01.15—Music. 02.00
 —News. 02.15-02.30—Music.

MOSCOW, 11.00—English Pro-
 gramme: The Wonderful Alloy
 Play (Kirschon). 17.30—Lakmé
 (Delibes). 20.00—Programme in
 Czech. 21.05—See 11.00. 22.00—
 Talk (Ger.).

PARIS (Radio-Colonial), (a) 22.30—
 News (Span., Port.). 23.00—Sports.
 (b) 23.15—Concert. 00.15—News
 (Fr., Span.). 01.00—News (Eng.);
 Talk; Records. 04.00—News.
 04.20—News (Eng.); Records.
 05.30—News (Span., Ger.).

PITTSBURGH, (a) 20.00—Citrus
 Sunshine. 20.05—Matinee. 20.30
 —Back Stage Wife. 20.45—Charm.
 21.00—Betty and Bob. 21.15—
 Karen Fladoes. 21.30—Operetta
 Music. 21.45—Rhythm. (a, b) 22.00
 —For Children. 22.15—Plough
 Boys. 22.30—For Children. 23.00—
 News. 23.15—Three Girls. 23.30—
 Dan and Sylvia. 23.45—Lowell
 Thomas. (b) 00.00—Easy Aces—
 Sketch. 00.15—Stamp and Adventure
 Talks. 00.30—Lois Miller and
 Rosey Rowswell. 00.45—Sketch.
 01.00—Variety. 01.30—House of
 Glass—Sketch. (b, c) 02.00—John
 Charles Thomas—Orchestra. 02.30
 —Sing-Sing—Sketch with Orches-
 tra. 03.30—Hollywood Gossip.
 03.45—Squire Hawkins. 04.00—
 News; Sports. 04.15—Dream
 Ship. 04.30-06.00—Orchestra.

RIO DE JANEIRO (PRFS), 22.30—
 News (Port.). 23.00—Talks (Various
 Languages).

ROME, (a) 13.15—Mediterranean
 Programme. 17.00-18.00 and 18.45-
 19.30—From Rome (420.8 m.).
 (b) 22.59—American Hour from
 Rome. News (Eng., It.). Don Carlos
 (Verdi), from Bologna.

RUYSELEDE, 19.30—News (Flem.,
 Fr.). 20.00—From Brussels (2).
 20.30—Records.

SCHENECTADY, (a) 19.00—Soprano.
 19.15—Household Chats. 19.30—
 Piano Pals. 19.45—Music. 21.00—
 Sketch. 21.15—How to be Charm-
 ing. 21.30—Markets; Music. 22.00
 —Al Pearce's Gang. 22.33—Tom
 Mix. 22.45—Clara Lu 'n' Em. 23.00
 —Flying Time; Orchestra. 23.30
 —News; Talk. 23.45—News; Music.
 00.00—Amos 'n' Andy. 01.00—
 Latin-America. 02.00—Town Hall
 To-night. 03.00—Log Cabin Revue.
 03.30—Music. 04.00—News; Music.
 04.15—Orchestra. 04.45-05.00—
 Organ.

SKAMLEBAEK (OXY), 13.00-14.30
 and 18.00 till Close—From Kalund-
 borg.

SUVA, FIJI, 05.30-06.30—Records.

VATICAN CITY, (a) 10.00—Religious
 Notes (Span.). (b) 19.00—Religious
 Notes (Ital.).

ZEESEN (DJB, DJN), 08.45—An-
 nouncements (Ger., Eng.). 09.00
 —Choir. 09.30—News (Eng.);
 Opera Music. 10.45—News; Music.
 12.00—News (Eng.).

ZEESEN (DJA, DJB, DJN), 13.00—
 Announcements (Ger., Eng.); Music.
 13.45—News in Eng. (DJA) and
 Dutch (DJB, DJN). 14.00—Opera
 15.15—News; Topical; Songs. 16.15
 —See 13.45.

ZEESEN (DJD, DJC), 17.00—An-
 nouncements (Ger., Eng.). 17.15
 —News. 17.30—For Women.
 18.00—Homeland. 19.00—News
 (Eng.). 19.15—Germany To-day;
 Orchestra. 21.00—News (Ger.,
 Eng.); 22.05—For Women; Eco-
 nomics; News. 23.00—See 19.30.
 00.15—See 19.15. 00.30—See 18.00.
 01.15—News (Eng.); Review.
 02.00—News; Music. 03.30—See
 17.00.

ZEESEN (DJA, DJB, DJN), 22.00—An-
 nouncements (Ger., Span., Port.).
 22.05—For Women; Economics;
 News. 23.00—Berlin Philharmonic.
 00.15—News; Folk Music. 01.15—
 Topical; Review. 02.00—News.
 02.15 (DJN)—Light Music; (DJA)
 —Announcements (Ger., Port.).
 03.30 (DJN)—News (Span.).

ZEESEN (DJA, DJB, DJN), 13.00—
 Announcements (Ger., Eng.). 13.15
 —For Young People. 13.45—News
 in Eng. (DJA) and Dutch (DJB,
 DJN). 14.00—Christmas Carols.
 14.15—Concert. 15.15—News. 15.30
 —Topical. 15.45—Folk Music.
 16.15—See 13.45.

ZEESEN (DJD, DJC), 17.00—An-
 nouncements (Ger., Eng.). 17.15—
 News. 17.30—Hitler Youth Pro-
 gramme. 17.45—The Gipsy Bar-
 on. 19.00—News (Eng.). 19.15—
 Germany To-day. 19.30—
 Songs; Tales. 20.00—Band. 21.00
 —News (Ger., Eng.). 22.00—See
 17.00. 22.05—Chamber Orchestra.
 22.35—Economics. 22.45—News.
 23.00—See 17.45. 00.15—See 19.15.
 00.30—Band. 01.15—News (Eng.).
 01.30—See 19.30. 02.15—Orches-
 tra. 03.30—See 17.00.

ZEESEN (DJN, DJA), 22.00—An-
 nouncements (Ger., Span.). 22.05
 —Orchestra. 22.35—Economics.
 News. 23.00—Excerpts. "The
 Gipsy Baron" (Strauss). 00.15—
 News (Span.). 00.30—Band. 01.15
 —Topical. 01.30—Songs and Tales.
 02.00—News. 02.15 (DJN)—Orches-
 tra; (DJA) See 22.00. 03.30
 (DJN)—News (Span.).

THURSDAY, Dec. 26

EMPIRE
 Transmission 1 (GSF, GSB), 08.30—
 Big Ben. Robert Geddes (Baritone).
 08.45—Christmas Talk.* 09.00—
 Orchestra. 09.40—News. 09.55—
 Christmas Day Programme.* 10.35
 —Close.

Transmission 2 (GSG, GSF), 11.00—
 Big Ben. Christmas Day Pro-
 gramme.* 11.40—Orchestra. 12.15
 —"Christmas Cabaret." 13.00—
 News. 13.15—Orchestra. 13.45—
 Close.

Transmission 3 (14.00-15.30 GSF,
 GSE; 15.30-17.00 GSE, GSB),
 14.00—Big Ben. Christmas Party.*
 15.00—London Counties v. New
 Zealand—Rugby. 15.45—Bivand
 Langrish (Pfte.). 17.00—Close.

Transmission 4 (17.15-19.15 GSI,
 GSD, GSB; 19.15-20.15 GSI,
 GSD, GSB; 20.30-22.45—GSC,
 GSB), 17.15—Big Ben. Dance
 Music. 18.00—News. 18.15—
 Violin Recital.† 18.30—Military
 Band. Percy Heming (Baritone).
 19.15—Variety. 19.30—Kentucky
 Minstrels. 20.15—Close. 20.30—
 "A Christmas Carol." 21.45—
 Scottish Dance Music—Piping.
 22.10—News. 22.15—Interlude.†
 22.20—Band. 22.45—Close.

Transmission 5 (GSC, GSA), 23.00—
 Big Ben. Dickens Reading. 23.15—
 French Carols. 23.30—Orchestra.
 00.15—Christmas Talk.* 00.30—
 "The Western Brothers." 00.45—
 News. 01.00—Close.

Transmission 6 (GSC, GSI), 03.00—
 Big Ben. Christmas Party.* 04.00—
 News. 04.15—Close.

BOMBAY, 16.30-17.30—Indian Pro-
 gramme, Shamshedhai of Delhi.

CARACAS, 16.00-18.30—Records;
 Songs. 21.00—Music; Songs. 22.15—
 For Children; Dance
 Music; Songs. 23.00—News;
 Music; Variety. 00.15—Orches-
 tra; Songs. 00.45—Amateurs.
 01.00—Play. 01.30-02.30—Pearls
 and Peonies; Band.

HUIZEN (PHI), 13.00—Announce-
 ments. 13.05—Chimes. 13.15—
 Trio. 13.30—News; Music. 13.45
 —Recitations. 14.00—Music. 14.10
 —Talks and Music. 14.40—Recita-
 tion. 14.45—Trio; Music. 15.20-
 15.30—Chimes.

MADRID (EAQ), 22.15—News. 22.30—
 Music. 22.48—News. 23.00—
 From Madrid (EAJ7). 23.30—News
 (Span. Eng. Fr.). 23.40—Music.
 00.00—For Eng. Listeners. 00.35—
 Pfte. 01.00—Music. 01.06—Pfte.
 01.30—Medical Talk. 01.45—
 Music. 02.00—News. 02.15-02.30—
 Music.

MOSCOW, 17.30—Beethoven. 20.00
 —Programme in German. 21.05—
 Programme in French. 22.00—Pro-
 gramme in Spanish.

PARIS (Radio-Colonial), (a) 22.30—
 News (Span., Port.). 23.00—Sports.
 (b) 23.15—Concert. 00.15—News
 (Fr., Span.). 01.00—News (Eng.);
 Songs; Records. 04.00—News.
 04.20—News (Eng.); Records.
 05.30—News (Span., Ger.).

PITTSBURGH, (a) 20.00—Citrus
 Health. 20.05—Music. 20.15—
 Sketch. 20.30—Back Stage Wife.
 20.45—Women's Clubs. 21.00—
 Betty and Bob. 21.15—Teachers'
 Association. 21.30—Dance Music.
 21.45—Rhythm. (a, b) 22.00—For
 Children. 22.15—Plough Boys.
 22.30—For Children. 23.00—News.
 23.15—The O'Malleys. 23.30—
 Dan and Sylvia—Sketch. 23.45—
 Lowell Thomas—Topical. (b) 00.00
 —Easy Aces—Sketch. 00.15—
 Variety. 00.30—Swanace Singers.

00.45—Al Williams. 01.00—Book
 Talk. 01.15—Strings. (b, c) 02.00—
 Play and Orchestra. 02.30—Ethel
 Harris. 02.45—Florence Parry. 03.15
 —Sammy Fuller. 03.30—Orchestra.
 04.00—News, Sports. 04.15—
 Arm Chair Driver. 04.30-06.00—
 Orchestras.

RIO DE JANEIRO (PRFS), 22.30—
 News (Port.). 23.00—Talks (Various
 Languages).

ROME, (a) 13.15—Mediterranean
 Programme. 17.00-18.00 and 18.45-
 19.30—From Rome (420.8 m.).
 (b) 23.20—News (It., Span., Port.).
 Don Carlos (Verdi), from Bologna.

RUYSELEDE, 19.30—News (Flem.,
 Fr.). 20.00—From Brussels (2).
 20.45—Records.

SCHENECTADY, (a) 19.00—For
 Housewives. 19.30—Federation
 Programme. 19.45—Mack's
 Moosikers. (b) 21.00—Betty and
 Bob—Sketch. 21.15—Bridge. 21.30
 —Markets. 21.45—Tenor. 22.00—
 News. 22.20—Talk. 22.30—Songs.
 22.45—Clara Lu 'n' Em. 23.00—
 Flying Time. 23.15—Dunn and
 Orchestra. 23.30—News. 23.35—
 Talk. 23.45—News. 23.50—Music.
 00.00—Amos 'n' Andy. 00.15—
 Popeye the Sailor. 00.30—Markets.
 00.50—News (Span.). 01.00—Rudy
 Vallée's Orchestra. 02.00—Snow-
 boat. 03.00—Paul Whiteman. 04.00—
 News. 04.05-05.00—Orchestras.

SKAMLEBAEK (OXY), 16.00-17.20
 and 18.00 till Close—From Kalund-
 borg.

SUVA, FIJI, 05.30-06.30—Records.

VATICAN CITY, (a) 10.00—Religious
 Notes (French). (b) 19.00—Religious
 Notes (Ital.).

ZEESEN (DJB, DJN), 08.45—An-
 nouncements (Ger., Eng.). 09.00—
 Songs and Tales. 09.30—News
 (Eng.). 09.45—Band. 10.45—
 News. 11.00—Music. 11.20—
 Talk. 11.30—Music. 12.00—
 News (Eng.).

ZEESEN (DJA, DJB, DJN), 13.00—
 Announcements (Ger., Eng.). 13.15
 —Orchestra. 13.45—News in Eng.
 (DJA) and Dutch (DJB, DJN).
 14.00—Operetta. 15.15—News.
 15.30—Topical. 15.45—Round the
 Christmas Tree. 16.15—See 13.45.

ZEESEN (DJD, DJC), 17.00—An-
 nouncements (Ger., Eng.). 17.15
 —News. 17.30—Topical Talk. 17.45
 —Opera. 19.00—News (Eng.).
 19.15—Germany To-day. 19.30—
 Variety. 20.15—Quartet (Schu-
 bert). 21.00—News (Ger., Eng.).
 22.00—See 17.00. 22.05—Hitler
 Youth Programme. 22.20—Topical.
 22.35—Economics. 22.45—News.
 23.00—Opera. 00.15—See 19.15.
 00.30—Variety. 01.15—News
 (Eng.). 01.30—Waltzes. 02.00—
 News. 02.15—Dance Music. 03.30
 —See 17.00.

ZEESEN (DJN, DJA), 22.00—An-
 nouncements (Ger., Span.). 22.05—
 For Hitler Youth. 22.35—News.
 Economics; News. 23.00—Topical.
 23.15—Opera Music. 00.30—Germany
 News—Topical. 01.30—German
 Waltzes. 02.15 (DJN)—Dance Music;
 (DJA) See 22.00. 03.30 (DJN)
 News (Span.).

FRIDAY, December 27

EMPIRE
 Transmission 1 (GSF, GSB), 08.30—
 Big Ben. London Counties v. New
 Zealand—Rugby.* 09.20—Sindbad
 the Sailor.* 10.20—News; An-
 nouncements. 10.40—Close.

Transmission 2 (GSG, GSF), 11.00—
 Big Ben. "High Spots." 11.15—
 Orchestra. 12.15—Christmas
 Party.* 13.15—News; Announce-
 ments. 13.35—Dance Music.†
 13.45—Close.

Transmission 3 (14.00-15.30 GSF,
 GSE; 15.30-17.00 GSE, GSB), 14.00
 —Big Ben. Dance Music.† 14.10—
 Talk.* 14.30—Orchestra; Arthur
 Brough (Baritone). 14.55—
 "Christmas Anthology."* 15.30—
 Symphony Concert. 16.30—
 News; Announcements. 16.50—
 Orchestra. 17.00—Close.

Transmission 4 (17.15-19.15 GSI,
 GSD, GSB; 19.15-21.30 GSI,
 GSD, GSB; 21.45-22.45 GSC,
 GSB), 17.15—Big Ben. Quintet;
 Jack Salisbury (Violin). 18.00—
 News; Announcements. 18.20—
 Schubert Songs.† 18.30—Orchestra.
 19.30—"Young Ideas." 20.00—
 Chamber Music.† 20.15—Orches-
 tra. 21.30—Close. 21.45—
 Marches.† 22.00—Talk. 22.20—
 Interlude.† 22.25—News; An-
 nouncements. 22.45—Close.

Transmission 5 (GSC, GSA), 23.00—
 Big Ben. Concert. 23.45—"Sindbad
 the Sailor."* 00.45—News; An-
 nouncements. 01.05—Close.

Transmission 6 (GSC, GSI), 03.00—
 Big Ben. Orchestra. 03.45—News
 04.05—Close.

CARACAS, 16.00-18.30—Records;
 Songs. 21.00—Music; Songs. 22.15—
 For Children; Dance Music;
 22.15—For Children; Dance Music;

Songs. 23.00—News; Music.
 00.15—Serial; Tenor; Music. 01.00
 —Family Life. 01.30-02.30—Opera
 Music; Songs; Music.

HUIZEN (PHI), 13.00—Announce-
 ments; Music. 13.30—News;
 Music. 13.55—Haydn Quartet;
 Music. 14.25—Haydn Quartet.
 14.45-15.00—Y.M.C.A. Talk.

MADRID (EAQ), 22.15—News. 22.30
 —Music. 22.48—News; Music.
 23.30—News (Span., Eng., Fr.);
 Music. 00.00—For Eng. Listeners;
 Music. 00.41—Literary Talk; Music.
 02.00—News. 02.15-02.30—Music.
 MOSCOW, 17.30—Opera. 20.00—
 Questions and Answers (in Czech).
 21.05—Programme in English;
 Child Musicians at the Microphone.
 22.00—Programme in German.

PARIS (Radio-Colonial), (a) 22.30—
 News (Span., Port.). 23.00—Sports.
 (b) 23.15—Concert. 00.15—News
 (Fr., Span.). 01.00—News (Eng.);
 Records. 04.00—News. 04.20—
 News (Eng.); Records. 05.30—
 News (Span., Ger.).

PITTSBURGH, (a, b) 22.00—For
 Children. 22.15—Plough Boys.
 22.30—For Children. 23.00—News.
 23.15—Sports. 23.30—Sketch. 23.45
 —Lowell Thomas. (b) 00.00—
 Quartet. 00.15—Talks. 00.30—
 Singing Seven. 00.45—Sketch. 01.00
 —Irene Rich; Orchestras. (b, c).
 02.00—Orchestra and Soloists. 03.00
 —Nickelodeon. 03.30—Theatre.
 04.00—News. 04.30—Orchestra.
 05.00—DX Club. 05.30-06.00—
 Orchestra.

RIO DE JANEIRO (PRFS), 22.30—
 News (Port.). 23.00—Talks (Various
 Languages).

ROME, (a) 17.00-18.00 and 18.45-
 19.30—From Rome (420.8 m.).
 (b) 22.59—American Hour from
 Rome. News (Eng., It.). Augusteo
 Concert. Talk. Italian and American
 Music.

RUYSELEDE, 19.30—News (Flem.,
 Fr.). 20.00—From Brussels (2).
 20.30—Records.

SCHENECTADY, (b) 21.00—Betty
 and Bob—Sketch. 21.15—How
 to be charming. 21.30—Music.
 21.45—Ed McConnell. 22.00—Al
 Pearce's Gang. 22.30—Tom Mix.
 22.45—Clara Lu 'n' Em. 23.00—
 Flying Time. 23.15—Joe La Tour.
 Sketch. 23.30—News. 23.35—Talk.
 23.45—News. 23.50—Music. 00.00
 —Spanish Programme. 00.30—
 Markets. 00.50—News (Span.).
 01.00—Concert. 01.30—Farm
 Court. 02.00—Tenor. 02.30—
 Court Story. 03.00—First Nighter.
 03.30—Revue. 04.00—News; Music;
 Orchestra. 04.45-05.00—Organ.

SKAMLEBAEK (OXY), 18.00 till
 Close—Kalundborg Programme.

SUVA, FIJI, 05.30-06.30—Records.

TOKIO (JVP), 19.00—Announce-
 ments; News (Eng.). 19.15—
 Variety. 19.45-20.00—News; Anthem.
 VATICAN CITY, (a) 10.00—Religious
 Notes (German). (b) 19.00—Reli-
 gious Notes (Ital.).

ZEESEN (DJB, DJN), 08.45—An-
 nouncements (Ger., Eng.). 09.00
 —Choir. 09.30—News (Eng.);
 Opera Music. 10.45—News; Music.
 12.00—News (Eng.).

ZEESEN (DJA, DJB, DJN), 13.00—
 Announcements (Ger., Eng.); Music.
 13.45—News in Eng. (DJA) and
 Dutch (DJB, DJN). 14.00—Opera
 15.15—News; Topical; Songs. 16.15
 —See 13.45.

ZEESEN (DJD, DJC), 17.00—An-
 nouncements (Ger., Eng.). 17.15
 —News. 17.30—For Women.
 18.00—Homeland. 19.00—News
 (Eng.). 19.15—Germany To-day;
 Orchestra. 21.00—News (Ger.,
 Eng.); 22.05—For Women; Eco-
 nomics; News. 23.00—See 19.30.
 00.15—See 19.15. 00.30—See 18.00.
 01.15—News (Eng.); Review.
 02.00—News; Music. 03.30—See
 17.00.

ZEESEN (DJN, DJA), 22.00—An-
 nouncements (Ger., Span., Port.).
 22.05—For Women; Economics;
 News. 23.00—Berlin Philharmonic.
 00.15—News; Folk Music. 01.15—
 Topical; Review. 02.00—News.
 02.15 (DJN)—Light Music; (DJA)
 —Announcements (Ger., Port.).
 03.30 (DJN)—News (Span.).

SATURDAY, Dec. 28

EMPIRE
 Transmission 1 (GSF, GSB), 08.30—
 Big Ben. "Christmas Cabaret."*
 09.15—Talk.* 09.35—Chamber
 Music. 10.15—News. 10.30—
 Close.

Transmission 2 (GSG, GSF), 11.00—
 Big Ben. Orchestra; "Dorothy
 Pearce (Soprano). 12.15—Talk.*
 12.35—Dance Music.† 12.45—
 Children's Hour. 13.30—News.
 13.45—Close.

Transmission 3 (14.00-15.30 GSF,
 GSE; 15.30-17.00 GSE, GSB), 14.00—
 Big Ben. Orchestra. 14.45—"Land's End to John o'

Groat's."† 15.15—"High Spots."
 (10).* 15.30—Recital. 16.15—
 Orchestra; Gladys Palmer (Contra-
 lto). 16.30—News. 16.45—
 Orchestra. 17.00—Close.

Transmission 4 (17.15-19.15 GSI,
 GSD, GSB; 19.15-21.30 GSI,
 GSD, GSB; 21.30-22.45 GSC,
 GSB), 17.15—Big Ben. Dance
 Music. 18.00—News. 18.20—
 Pianoforte Solos.† 18.30—Old
 Time Songs (Phyllis Scott, John
 Rorke). 19.00—Saturday Maga-
 zine. 19.45—Military Band. 20.30
 —Music Hall. 21.15—Close.
 21.30—Balaika Orchestra. 22.00—
 News. 22.45—Gracie Fields.†
 22.30—Dance Music. 22.45—Close.

Transmission 5 (GSC, GSA), 23.00—
 Big Ben. Variety. 00.00—"High
 Spots." (10).* 00.15—Christmas
 Cabaret.* 01.00—News. 01.20—Close.
 Transmission 6 (GSC, GSI), 03.00—
 Big Ben. Variety. 03.45—News.
 04.05—Close.

CARACAS, 16.00-18.30—Records;
 Songs. 21.00—Music; Songs. 22.15—
 For Children. 22.30—Dance
 Music; Songs. 23.00—News;
 Music. 00.00—Humour;
 Songs. 00.45-02.30—Talks; Dance
 Music.

HUIZEN (PHI), 13.00 Announce-
 ments; Violin; News. 13.45—
 Troubadours. 14.10—News; Trouba-
 dours. 14.50—Newcomers, Trouba-
 dours. 15.15-16.00—News; Dance
 Music.

MADRID (EAQ), 22.15—News; Music.
 23.20—Songs; Music. 23.34—News
 (Span., Eng., Fr.); Music. 00.00—
 For Eng. Listeners. 00.35-02.30—
 Music; News.

MOSCOW, 17.30—Concert. 20.00—
 Programme in German. 21.05—
 Programme in French. 22.00—
 Programme in Swedish.

PARIS (Radio-Colonial), (b) 23.15—
 Music. 00.15—News (Fr., Span.).
 01.00—News (Eng.); Books; Re-
 cords. 04.00—News. 04.20—News
 (Eng.); Records. 05.30—News
 (Span., Ger.).

PITTSBURGH, (a, b) 22.00—Pfte.
 22.15—Bill and Alex. 22.30—Plough
 Boys. 22.45—News; Sports. 23.00—
 Rhythm. (b) 00.00—Dr. Clausen.
 00.15—Talk; Orchestra. Revue.
 01.15—Boston Symphony Orchestra.
 (b, c) 02.15—Russian Choir; Barn
 Dance. 03.30—Orchestra. 04.00—
 News; Sports. 04.15—Behind the
 Law; Orchestra. 05.00—Messages to
 Far North. 05.30-06.00—
 Orchestras.

RIO DE JANEIRO (PRFS), 22.30—
 News (Port.). 23.30—Talks (Various
 Languages).

ROME, (a) 17.00-18.00 and 18.45-
 19.30—From Rome (420.8 m.).
 (b) 23.20—News (It., Span., Port.).
 Augusteo Concert. Talk. Records.

RUYSELEDE, 19.30—News (Flem.,
 Fr.). 20.00—From Brussels (1).

SCHENECTAD

SUNDAY December 22

10 a.m.

BERLIN, Literary and Musical. 10.30—See Leipzig. BEROMÜNSTER, Chamber Music, Reading. BRESLAU, 10.10—Talk. 10.30—See Leipzig. BRUSSELS (1), Orchestra, Songs, Pfte. BRUSSELS (2), Records. BUCHAREST, 10.10—Choirs, Announcements, Orchestra.
COLOGNE, Folk Songs. 10.30—String Quartet (Beethoven). DEUTSCHLANDSENDER, Recitation, Organ.
FRANKFURT, Choir, Reading, Sequence.
HAMBURG, Report. 10.30—See Leipzig. HILVERSUM (1,875 m.), Records. HILVERSUM (301.5 m.), 10.10—Service.
KÖNIGSBERG, For Mothers, Announcements. 10.30—Christmas Music.
LEIPZIG, 10.30—Cantata (Bach). MUNICH, Folk Music. 10.40—Peasants—Radio Picture.
PARIS (PTT), 10.15—Orchestra, Songs. POSTE PARISIEN, Records. 10.35—Debussy Recital.
RADIO-NORMANDIE, Waltzes, Records, Orchestra, Records. RADIO-PARIS, Book-keeping, Spanish.
SOTTENS, 10.15—Records. STUTTGART, Talk, Readings. 10.30—See Leipzig.
TURIN, Mass.

11 a.m.

BERLIN and GERMAN STATIONS, Bands. BEROMÜNSTER, Orchestra, News, Viennese Waltzes. BRUSSELS (1), Records. "Car-men," News. BRUSSELS (2), Orchestra, Songs, Saxophone. BUCHAREST, Orchestra.
COLOGNE, Orchestra. DEUTSCHLANDSENDER, See Cologne.
HILVERSUM (1,875 m.), Records. 11.55—Orchestra. HILVERSUM (301.5 m.), Service, Talk.
KALUNDBORG, Ensemble.
MUNICH, Band, Announcements.
PARIS (PTT), Orchestra. POSTE PARISIEN, Recital (contd.), Records. PRAGUE, News. 11.20—Guessing Competition, Orchestra from Bratislava.
RADIO-NORMANDIE, Records. 11.30—Orchestra. RADIO-PARIS, Poullet Concert Orchestra.
SOTTENS, Carillon, Records, News.
STRASBOURG, Wagner Records. 11.30—Service in German.
TURIN, Reading, Records.
WARSAW, Review, Orchestra, Songs.

12 noon

BERLIN and GERMAN STATIONS, Bands (contd.). BEROMÜNSTER, Viennese Waltzes, Folk Music. BRUSSELS (1), Records. Monologues. BRUSSELS (2), Orchestra. BUCHAREST, Orchestra.
COLOGNE, Orchestra. DEUTSCHLANDSENDER, See Cologne.
HILVERSUM (1,875 m.), Orchestra, Review. HILVERSUM (301.5 m.), Talk, Light Music.
KALUNDBORG, English and German Talks, French Poems.
MUNICH, Light Orchestral Music.
PARIS (PTT), Songs, Jazz. POSTE PARISIEN, Records for Children, Variety, Interview, Songs. PRAGUE, Orchestra from Bratislava, For Farmers, Talk.
RADIO-NORMANDIE, Revue, Sacred Music, Address. RADIO-PARIS, Organ Recital. 12.30—Religious Address, News. ROME, News. 12.10—Famous Italian Singers (Records), Musical Parody.
SOTTENS, Records. STRASBOURG, Records, News.
TOULOUSE, Light Music, News, Operetta Songs, Markets, Amusements. TURIN, News. 12.10—See Rome.
WARSAW, Play (Tolstoy), Orchestra.

1 p.m.

BERLIN, Talk, Band, Songs. BEROMÜNSTER, Ulrich Bräker Bicentenary Commemoration. BRESLAU, News, Talks, Variety.
BRUSSELS (1), News, Radio Orchestra. BRUSSELS (2), News, Records of Light Music. BUCHAREST, News.
COLOGNE, Play for Children, Humorous Guessing Competition.
DEUTSCHLANDSENDER, Play, Records.
FRANKFURT, Punch helps Santa Claus—Play for Children, Story.

HAMBURG, For Children: Readings, Recitations, Songs to the Lute, Play. HILVERSUM (1,875 m.), Orchestra, Address. HILVERSUM (301.5 m.), Light Music, Records, Talk.
KALUNDBORG, Records, Children's Choir. KÖNIGSBERG, Chess, Christmas—Literary and Musical Sequence.
LEIPZIG, Weather, Reading. 1.30—Leipzig Symphony Orchestra.
MOSCOW, Swedish Programme. MUNICH, For Children. 1.15—Weihnacht den Müttern—Sequence, Songs to the Lute.
PARIS (PTT), Sports Notes, News, Jazz. POSTE PARISIEN, Songs, Records, Medrano Circus. PRAGUE, For Farmers.
RADIO-NORMANDIE, Concert. RADIO-PARIS, Poullet Concert Orchestra. ROME, Parody (contd.). 1.15—Mediterranean Relay.
STRASBOURG, Alsatian and Swiss Music. STUTTGART, See Frankfurt, Talk.
TOULOUSE, Band, Songs, Film Music, News, Exchange. TURIN, See Rome.
WARSAW, Orchestra, Reading, Records.

2 p.m.

BERLIN, Band, Songs, For Peasants. BRESLAU, Variety. 2.30—Play. BRUSSELS (1), Records. 2.30—Lecture Recital: The Classical Song BRUSSELS (2), Records (contd.). COLOGNE, Competition (contd.), Reading.
DEUTSCHLANDSENDER, Talk, Records, Pftes.
FRANKFURT, For Farmers.
HAMBURG, Light Music. 2.30—Christmas—Dialogue. HILVERSUM (1,875 m.), Orchestra, Talks, Records. HILVERSUM (301.5 m.), Talk. 2.10—Opera Concert.
KALUNDBORG, Orchestra, Reading. KÖNIGSBERG, Book Review. 2.15—The Sleeping Beauty—Fairy Play with Music.
LEIPZIG, Orchestra (contd.), Talk.
MOSCOW, Swedish Programme, For Children. MUNICH, Fiddle Trio, Tenor and Recorder Solos, Review.
PARIS (PTT), Two Comedies. POSTE PARISIEN, Records.
RADIO-NORMANDIE, Records. RADIO-PARIS, Bilboquet, Songs Plucked String Orchestra.
STRASBOURG, Alsatian and Swiss Music. 2.20—Conservatoire Concert. STUTTGART, Chamber Music.
TOULOUSE, Service.
WARSAW, For Farmers.

3 p.m.

ATHLONE, Records.
BERLIN, See Cologne. BRESLAU, See Cologne. BRUSSELS (1), De Lassus Society Concert, with Soprano, Tenor and Bass Solos. BRUSSELS (2), 3.30—Cantata (Defosse). BUCHAREST, For Peasants.
COLOGNE, Orchestra, Chamber Choir, Bassoon Quartet and Songs.
DEUTSCHLANDSENDER, Band, Readings.
FRANKFURT, See Cologne.
HAMBURG, See Cologne. HILVERSUM (1,875 m.), Records, For Invalids. HILVERSUM (301.5 m.), Opera Music. 3.50—Pfte. Solos.
KALUNDBORG, Orchestra. KÖNIGSBERG, See Cologne.
LEIPZIG, A Trip into Toyland—Variety for Children.
MOSCOW, News, Records. MUNICH, See Cologne.
PARIS (PTT), Concert. PRAGUE, Orchestra from Kosice.
RADIO-NORMANDIE, Orchestra, Military Band, Light Music.
RADIO-PARIS, Variety Concert and Comedy. ROME, Records, Sports, Experimental Relay from Asmara.
SOTTENS, 3.30—Records. STRASBOURG, Concert (contd.). STUTTGART, See Cologne.
TURIN, Records, Sports, Experimental Relay from Asmara.
WARSAW, For Children, Orchestra Songs.

4 p.m.

ATHLONE, Records.
BERLIN, See Cologne. BEROMÜNSTER, Christmas Stories for Children, Spanish Music Records. BRESLAU, See Cologne. BRNO, 4.50—German Programme. Red Cross Concert. BRUSSELS (1), Concert (contd.), Records in the interval. BRUSSELS (2), Cantata (contd.). BUCHAREST, Orchestra.

COLOGNE, Concert (contd.). DEUTSCHLANDSENDER, Band. FRANKFURT, See Cologne.
HAMBURG, Play. 4.50—German Christmas Music. HILVERSUM (1,875 m.), For Invalids, Choir, Organ. HILVERSUM (301.5 m.), Pfte. 4.10—Carols, News, Orchestra.
KALUNDBORG, Service. KÖNIGSBERG, See Cologne.
LEIPZIG, Variety (contd.), Road-Workers' Christmas on Records.
MUNICH, See Cologne.
PARIS (PTT), Concert. 4.30—Comedy. POSTE PARISIEN, Records. PRAGUE, Orchestra (contd.), Reading, Records, German Play with Music.
RADIO-NORMANDIE, Tea Time Hour. RADIO-PARIS, Two Comedies. ROME, Augusteo Symphony Concert, News.
SOTTENS, Mandolines and Jodeling. STRASBOURG, Concert (contd.). STUTTGART, See Cologne.
TURIN, See Rome.
VIENNA, 4.5—Felix Weingartner in a Programme of his own Music. 4.30—Hansel and Gretel (Humperdinck), on Records.
WARSAW, Dance Music, Local Snapshots.

5 p.m.

BERLIN, Sports, Songs, Instrumental. BEROMÜNSTER, Christmas Sketch, Records. BRESLAU, Talk, Pfte. BRNO, Concert (contd.). BRUSSELS (1), Concert (contd.). 5.15—Concert. BRUSSELS (2), Dance Music, Sports. BUCHAREST, Talk, Orchestra.
COLOGNE, For Ex-Servicemen, Play. DEUTSCHLANDSENDER, Carols. FRANKFURT, The Winter Solstice—Play, Talk.
HAMBURG, German Christmas Music, News. HILVERSUM (1,875 m.), Choir, Organ, Service. HILVERSUM (301.5 m.), Orchestra, Talk, News, Records, Orchestra.
KALUNDBORG, Service (contd.), 5.30—A Visit to Hans Andersen's House. KÖNIGSBERG, Report, Play.
LEIPZIG, Records (contd.). 5.15—Old Dutch Christmas Music.
MOSCOW, 5.20—Koval Concert, Soviet Poetry. MUNICH, Sequence with Music.
PARIS (PTT), Variety Concert. POSTE PARISIEN, Records. PRAGUE, Play (contd.), News, Records.
RADIO-NORMANDIE, Light Music, Records, Dance Music. RADIO-PARIS, "Messiah." ROME, Concert (contd.).
SOTTENS, Records, Christmas Story, Records. STRASBOURG, 5.15—Sacred Music, Reading and Address. STUTTGART, Report, Variety.
TURIN, See Rome.
VIENNA, Hansel and Gretel (contd.), 5.30—Light Music.
WARSAW, Pfte. Trio. 5.30—Dramatic Relay.

6 p.m.

BERLIN, Christmas Festival of the N.S.D.A.P. Address by Dr. Goebbels. BEROMÜNSTER, News, Talk. 6.45—Carols. BRESLAU, Music. 6.45—Play. BRUSSELS (1), Light Music. BRUSSELS (2), Two Pftes, Song Recital, Address. BUCHAREST, News, Records, Talk. BUDAPEST (1), 6.25—Magda Rigo (Songs).
COLOGNE, Quintet, Sports.
DEUTSCHLANDSENDER, See Berlin. 6.30—Christmas Oratorio (Bach).
EIFFEL TOWER, 6.45—News, Review.
FRANKFURT, See Berlin.
HAMBURG, See Berlin. HILVERSUM (1,875 m.), Service, Sacred Music. HILVERSUM (301.5 m.), Orchestra, Dramatic Programme, Variety.
KALUNDBORG, News. Talk. KÖNIGSBERG, See Berlin.
LEIPZIG, See Berlin.
MOSCOW, Poetry (contd.). MUNICH, Sports, 6.20—Concert, Talk. OSLO, Songs, Harp, News. 6.30—Orchestra.
PARIS (PTT), Variety, Review. POSTE PARISIEN, Records. PRAGUE, News. 6.10—Operetta.
RADIO-NORMANDIE, Records, Light Music, Records. RADIO-PARIS, "Messiah" (contd.). ROME, Football Report. 6.30—News.
SOTTENS, Records, Address, Sports. STOCKHOLM, 6.15—News. 6.30—Play. STRASBOURG, Sacred Music (contd.), Talk, Dance Records. STUTTGART, Variety, Talk.
TOULOUSE, Variety, News. TURIN, 6.30—Announcements.
VIENNA, News, Light Music (contd.). WARSAW, News, Book Review.

7 p.m.

BERLIN, Light Music. BEROMÜNSTER, Carols (contd.). BRESLAU, Play (contd.). BRNO, 7.30—Reading. BRUSSELS (1), Address, Songs, Reviews. BRUSSELS (2), Records, Talk. BUCHAREST, Talk, Bratianu Commemoration, Sports. BUDAPEST (1), Sports 7.10—Comedy.
COLOGNE, See Munich.
DEUTSCHLANDSENDER, Oratorio (contd.).
EIFFEL TOWER, Review, News. Review.
FRANKFURT, Advent Concert.
HAMBURG, See Berlin. HILVERSUM (1,875 m.), Sacred Music. 7.25—News, Talk. 7.55—Orchestra. HILVERSUM (301.5 m.), Variety, News, Revue.
KALUNDBORG, Opera Music. KÖNIGSBERG, See Berlin.
LEIPZIG, Christmas Legend. LILLE, Review, Records, Sports.
MONTE CENERI, Opera Music.
MOSCOW, Operetta Music.
MUNICH, Jochum Christmas Music. OSLO, Orchestra, Reading.
PARIS (PTT), Review, Variety. POSTE PARISIEN, News, Records. 7.50—"Carmen" Records. PRAGUE, Operetta (contd.), Talk. 7.45—Recital.
RADIO-NORMANDIE, Concert, News. RADIO-PARIS, Songs, Guignol, Polichinelle. ROME, Music, Lesson, News, Talk. 7.35—Italian Opera Music.
SOTTENS, Excerpts from the Christmas Liturgy. 7.25—Noël dans la famille de Mistral. 7.55—Orchestra.
STOCKHOLM, Orchestra, Songs. STRASBOURG, Dance Records, News. STUTTGART, Folk Plays.
TOULOUSE, Concert, News. TURIN, Music Lesson, News, Talk, Comedy.
VIENNA, Light Music Talk, Reading, Talk.
WARSAW, Popular Orchestral Concert, Reading, News.

8 p.m.

ATHLONE, 8.30—The Virgin and Child Nativity Play.
BERLIN, See Stuttgart. BEROMÜNSTER, News. 8.10—Italian Songs. BRESLAU, See Stuttgart. BRUSSELS (1), Franco-Belgian Concert from Paris. BRUSSELS (2), Relay from the Flemish Royal Opera, Antwerp. BUCHAREST, Aca de Barbu, Orchestra, News. 8.45—Romanian Music. BUDAPEST (1), Comedy (contd.).
COLOGNE, See Stuttgart.
DEUTSCHLANDSENDER, Variety. EIFFEL TOWER, News. 8.30—Burgundy Folk Songs.
FRANKFURT, See Stuttgart.
HAMBURG, See Stuttgart. HILVERSUM (1,875 m.), Orchestra, Recitations. HILVERSUM (301.5 m.), Revue.
KALUNDBORG, Opera Music, Sketch, Pfte. Records, Pictures from Daily Life. KÖNIGSBERG, See Stuttgart.
LEIPZIG, See Stuttgart. LILLE, Variety Records, Orchestra.
MONTE CENERI, Talk. 8.15—French Music. MOSCOW—German Talk. MUNICH, See Stuttgart.
OSLO, Orchestra, Talk, News.
PARIS (PTT), Variety. 8.15—Sports Notes. 8.30—"Chilperic"—Opera (Hervé). POSTE PARISIEN, "Carmen" Records, Sketch. PRAGUE, Recital, Variety.
RADIO-NORMANDIE, Operetta and Opera Music, Sports, Opera Music.
RADIO-PARIS, Franco-Belgian Programme. ROME, Concert (contd.), Film Notes. 8.45—Organ, Choir.
SOTTENS, Orchestra, News. STOCKHOLM, Orchestra, News, Reading. STRASBOURG, News. 8.15—Orchestra, Violin, Pfte. STUTTGART, Trunk Music.
TOULOUSE, Variety. TURIN, Comedy (contd.). 8.15—Violin and Pfte., News, Talks, Reading in the intervals.
VIENNA, Gmünd Christmas Play. WARSAW, Variety, Talk, Sports Notes.

9 p.m.

ATHLONE, Ceilidhe Music, Variety. BERLIN, News. 9.30—See Munich. BEROMÜNSTER, Italian Songs, Sports. BRESLAU, News. 9.30—See Munich. BRUSSELS (1), Franco-Belgian Programme (contd.). BRUSSELS (2), Opera Relay (contd.). BUCHAREST, Romanian Music News. BUDAPEST (1), News. 9.20—Jazz Band.
COLOGNE, News. 9.30—See Munich.
DEUTSCHLANDSENDER, News, Dances.

EIFFEL TOWER, Records.
FRANKFURT, News, Sports Report. HAMBURG, News, 9.30—See Munich. HILVERSUM (1,875 m.), Orchestra. 9.45—Soprano Pfte., Records. HILVERSUM (301.5 m.) Revue News. 9.40—Orchestra Pfte.
KALUNDBORG, Pictures from Daily Life News. 9.20—Waltz, Songs. 9.40—Violin Music. KÖNIGSBERG, News. 9.40—Light Music. LEIPZIG, News. 9.30—Orchestra. LILLE, Orchestra.
MONTE CENERI, Sports Report. MOSCOW, Weekly Review (Eng.). Questions and Answers (Eng.). MUNICH, News. 9.30—Dance Music.
OSLO, Talk, News. 9.30—Classical Music in Jazz Rhythm.
PARIS (PTT), "Chilperic" (contd.). POSTE PARISIEN, One-Act Comedies. PRAGUE, News, Records, News, Records. 9.35—Dance Band.
RADIO-NORMANDIE, Opera Music, Interview, Organ, Music. RADIO-PARIS, Franco-Belgian Programme (contd.). ROME, Organ, Songs, News.
STOCKHOLM, Orchestra. STRASBOURG, Orchestra, Violin and Pfte. STUTTGART, News. 9.30—See Munich.
TOULOUSE, Fantasy, Orchestra. 9.45—"Toi c'est moi." TURIN, Violin and Pfte., Dance Music, News.
VIENNA, News, 9.20—Arias. WARSAW, Chopin Pfte. Contest.

10 p.m.

ATHLONE, Variety, News, Light Music.
BERLIN, See Munich. BRESLAU, See Munich. BRUSSELS (1), News, 10.10—Café Concert. BRUSSELS (2), Opera Relay (contd.), News. BUDAPEST (1), Jazz Band, Cigany Band.
COLOGNE, See Munich.
DEUTSCHLANDSENDER, Dance Music.
FRANKFURT, See Deutschlandsender.
HAMBURG, See Munich. HILVERSUM (1,875 m.), Records, News, Epilogue. HILVERSUM (301.5 m.), Orchestra, 1935 Melodies, News, Records. 10.55—Dance Band.
KALUNDBORG, Dance Band. KÖNIGSBERG, Orchestra.
LEIPZIG, Orchestra. LILLE, Orchestra.
MOSCOW, Literary Programme (German). MUNICH, Dance Music.
PARIS (PTT), "Chilperic" (contd.), News. 10.45—Dance Band. POSTE PARISIEN, Comedies (contd.). 10.30—Light Music Records. PRAGUE, Dance Band.
RADIO-NORMANDIE, Light Music Records. RADIO-PARIS, To be announced. 10.45—Dance Music. STRASBOURG, Orchestra, Violin and Pfte. 10.45—See Paris (PTT). STUTTGART, See Munich.
TOULOUSE, "Toi c'est moi" (contd.) Orchestra, Songs, News, Light Music.
VIENNA, News, Jazz Band. WARSAW, Weather, Dance Records.

11 p.m.

BERLIN, Jahn Band. BRUSSELS (1), Café Concert. BRUSSELS (2), Records. BUDAPEST (1), Report. DEUTSCHLANDSENDER, Dance Music.
FRANKFURT, See Stuttgart. HILVERSUM (301.5 m.), Dance Band.
KALUNDBORG, Dance Band. PARIS (PTT), Dance Band. POSTE PARISIEN, Light Music Records. RADIO-NORMANDIE, Christmas Music, Light Music. RADIO-PARIS, Dance Music, Light Music. STRASBOURG, See Paris (PTT). STUTTGART, Schubert Music. TOULOUSE, Chansonnettes. VIENNA, Jazz Band.

12 midnight

FRANKFURT, See Stuttgart. RADIO-NORMANDIE, Dance Music. RADIO-PARIS, Light Music.
STUTTGART, Schubert Music. TOULOUSE, Light Music, News, Orchestra.

1 a.m. (Monday)

RADIO-NORMANDIE, Dance Music.

NATIONAL

Time Signals : Big Ben, 12.30 p.m. Greenwich, 10.30 a.m., 4.30 p.m., 9.0 p.m. **D = Droitwich.**
9.30-10.5 a.m. (D)—Service.
10.30-10.45 (D)—Weather Forecast.
12.30 p.m. (D)—Marie Hall (Violin).
1.0 (D)—Eugene Pini and his Tango Orchestra, with Diana Clare.
1.45 (D)—N. Ireland Orchestra ; Kathleen Daunt (Mezzo-Soprano).
2.45 (D)—Records.
3.15 (D)—Hebden Bridge Band.
4.0 (D)—Serge Krish Septet.
4.30 — Children's Christmas Service, Rev. Canon T. Guy Rogers, M.C.
5.0—"The Prince of Peace," arranged from the Apocryphal Gospels by Mona Swann.
5.30—The International-String Quartet ; George Parker (Baritone).
6.45—Short Story, by T. W. Coghlin.
6.55—Olga Haley (Mezzo-Soprano) ; Pouishnoff (Pianoforte).
8.0—Methodist Service.
3.45—Appeal. The Mediterranean Mission to Seamen, by the Rt. Rev. The Lord Bishop of Gibraltar.
8.50—"The News."
9.0—Bournemouth Municipal Orchestra. Conductor : Richard Austin. George Baker (Baritone).
10.0—Leslie Bridgewater Harp Quintet ; Olive Groves (Soprano). Bourrée and Gigue (Handel). Melody (Paradies). Tarantella (Reynolds). Songs : I Know a Bank (Martin Shaw) ; Scythe Song, Lane o' the Thrushes (Harty) ; Melody (Stojowsky). Ballet Music, Salammbô (Arends). Songs : Madonna and Child (Thiman) ; My Dearest Heart (Sullivan) ; Dance of the Chinese Dolls (Rebikov). Romance (Widor). Gigue (Lully).
10.45—Epilogue.

REGIONAL

Time Signals : Big Ben, 12.30 p.m. Greenwich, 4.30 p.m., 9.0 p.m.
11.0 a.m. (Western)—Welsh Service.
12.30-4.30 p.m. (ex. Midland ; Scottish till 3.30)—Droitwich.
3.30 (Scottish)—Children's Service.
4.30 (ex. Midland and Northern)—The Celebrity Trio.
4.30 (Midland)—Jan Berenska.
4.30 (Northern)—Northern Orchestra.
5.0 (Regional, N. Ireland, Scottish)—BBC Orchestra (Section C) ; Antonia Butler (Cello).
5.0 (Western) — Recital ; Contralto, Pianoforte.
5.30 (Midland)—"Candida" (Bernard Shaw) ; Coventry Repertory Company.
5.30 (Northern)—"The Adventures of Mr. Pickwick" ; Manchester Repertory Theatre.
5.30 (Western)—"The Masque of Lob." Eleanor and Herbert Farjeon.
6.0 (Regional, Scottish)—Leila Megane (Mezzo-Soprano), Ben Davies (Tenor).
6.0 (Western)—Records.
6.0 (Northern) — Archie Armstrong (Tenor), in Tyneside Songs.
6.0 (N. Ireland)—"Irish Tour"—Songs.
6.30 (Regional, Western, Northern)—BBC Theatre Orchestra ; The Templars.
6.30 (Scottish)—BBC Scottish Orchestra ; Marie Thompson (Soprano).
6.45 (N. Ireland)—Constabulary Band ; S. Weir McCormick (Baritone).
7.0 (Midland)—Kettering Band.
7.30 (Scottish)—Seeking and Finding the Way. "In Old Age."
7.35 (N. Ireland)—Story Reading.
7.45 (Northern)—Announcements.
7.55—Services.
8.45—Appeal—see National.
8.50—"The News."
9.0—Melodies of Christendom—21. Sir Walford Davies.
9.30—BBC Orchestra (Section B) ; Adrian Boulton ; Lionel Tertis (Viola).
10.45—Epilogue.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)
 565 kc/s (531 m.) ; 60 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.) ; and Cork, 1,240 kc/s (241.9 m.).
3.0-5.0 p.m.—Records.
8.30—"The Virgin and Child" (Leon O'Broin), produced by The Marian Arts Guild. 9.0—Ceilidhe Music. 9.30—Variety. 10.30—News. 10.45-11.0—Sports News by Sean O'Ceallachain ; Music.
BERLIN (Germany)
 841 kc/s (356.7 m.) ; 100 kW.
5.0 a.m.—Greetings ; Hymn ; Motto. 5.10—Gym. 5.30—Concert from Hamburg. 7.0—Gym. 7.20—Serenade in D (Beethoven). 7.55—Chimes. 8.0—Service from Potsdam Garrison Church. 8.55—Cathedral Chimes. 9.0—Michael Band. 10.0—Literary and Musical Programme. 10.30—See Leipzig. 11.0—Police Band. Conductor : Eduard Wagner, Freun-

8.30 a.m.—Concert. 9.0—Roman Catholic Address ; Organ Music. 9.45 — Chamber Music by Erwin Gilbert and Max Haase (Violins), Walter Zeller (Viola), Bächli (Cello) and Strauss (Pfte.). 10.30—Jakob Job reads. 11.0—Radio Orchestra. Conductor : Hofmann. 11.30—News. 11.40—Viennese Waltzes by the Radio Orchestra and the "Original Vienna Street Singers." Conductor : Hofmann. 12.30 p.m.—Folk Music. 1.0-2.0—Ulrich Bräker Bi-Centenary Programme by Dr. Völlmy, Willy Fries and the Wattwil Yodel Club. 4.0—Christmas Stories for Children. 4.30—Records : Spanish Music. 5.0—Christmas Sketch. 5.45—Records. 6.0—Weather ; Sports. 6.5—Records. 6.15—Talk : Ulrich von Hutten. 6.45—Christmas Carols by Children's Choirs, from St. John's Church, Schaffhausen. 8.0—News. 8.10—Italian Songs by Salvatore Salvati (Tenor), and Franco Rosati (Bari-

SUNDAY (December 22)

4.0 a.m.—Folk Music. 5.0—See Hamburg. 7.0—Greetings ; Music. 7.50—News. 8.0—Reading. 8.15—Advent Songs. Plüddemann Ladies' Choir. Conductor : Paul Plüddemann. Helene Plüddemann (Mezzo-Soprano).
9.0—See Königsberg. 9.30—Christmas Carols from Hindenburg. Choirs. Conductor : Elisabeth Fister. 10.10—Talk : Christmas. 10.30—See Leipzig. 11.0—See Berlin. 1.0 p.m.—News. 1.10—For Women. 1.30—Call of Youth. 1.45—Greetings. 1.50—Variety. 2.30—Play for Children (Menzel), by Children. 3.0—See Cologne. 5.0—Talk : Toy-making. 5.25—Beethoven's Sonatas by Georg Dohrn (Pfte.). Sonata in E. Sonata in F sharp. 6.0—Light Music. 6.45—"Das Apostelspiel"—Play (Meil) with Music by Bialas. 8.0—See Stuttgart. 9.0—News. 9.30-11.0—See Munich.

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

P.M.
 12.30 Radio-Paris : Address.
 4.10 Hilversum (301.5 m.) : Carols.
 5.0 Radio-Paris : "Messiah."
 6.30 Deutschlandsender : Christmas Oratorio (Bach).
 6.45 Beromünster : Church concert.
 7.0 Munich, etc. : Christmas music.
 7.0 Sottens : Sacred music.
 9.0 Regional : "Melodies of Christendom."

SYMPHONY CONCERTS

3.30 Brussels 2 : Cantata (Defossez).
 4.0 Italian Stations : Augsteo.
 8.0 German Stations : Rich. Trunk.
 9.30 Regional : Boult, Tertis.

LIGHT CONCERTS

2.0 Kalundborg : Radio orchestra.
 2.10 Hilversum (301.5 m.) : Opera concert.
 5.30 Vienna : Light music.
 6.30 Oslo : Orchestral.
 7.0 Kalundborg : Opera music.
 7.0 Stockholm : Orchestra, songs.
 7.0 Warsaw : Popular orchestral.
 7.35 Rome : Operetta music.
 7.55 Hilversum (1,875 m.) : Orchestra, songs.

8.0 Brussels 1, Radio-Paris : Franco-Belgian concert.

8.0 Brussels 2 : Opera music.
 8.15 Strasbourg : Popular orchestral.
 9.0 National : Bournemouth.
 9.30 Leipzig : Orchestral dances.
 9.40 Hilversum (301.5 m.) : Orchestra, pfte.

10.10 Brussels 1 : Deltour Orchestra.
 10.10 Budapest 1 : Cigány band.

OPERETTA

8.30 Paris (PTT) : "Chilperic" (Hervé).

dorfer (Zither) and his Band, and the Station Orchestra. Conductor : Frick-hoeffler. 1.0 p.m.—Talk : Christmas.
 1.15—Jahn Band, Thalau (Soprano), and Müller-Gärtner (Contralto). 2.15-2.30—For Peasants.
 3.0—See Cologne. 5.0—Sports Notes.
 5.15—Gertrud Baumann (Songs), Käthe Grandt (Violin), Ricardo Boadella (Cello), and Helmut Hidegheti (Pfte.). Old Christmas Carols. Concerto in E (Telemann). Trio (Mozart). 6.0—Christmas Festival of the NSDAP. Address by Dr. Goebbels. 7.0—Light Music. Station Orchestra. Conductor : Steiner.
 8.0—See Stuttgart. 9.0—News.
 9.30—See Munich.
 11.0-12.0 m't—Jahn Band.

BEROMÜNSTER (Switzerland)

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

CHAMBER MUSIC

5.0 Warsaw : Pianoforte trio.
 5.30 National : Quartets, songs.
 8.15 Monte Ceneri : French music.
 8.15 Turin : Violin and pfte.

RECITALS

3.50 Hilversum (301.5 m.) : La Volpe (pfte.).
 6.0 Brussels 2 : Two pftes., songs.
 6.25 Budapest 1 : Magda Rigo—arias, songs.
 6.55 National : Pouishnoff (pfte.), songs.

8.10 Beromünster : Italian songs.
 8.30 Eiffel Tower : Burgundy folk song.

8.45 Rome : Organ, songs.
 9.0 Warsaw : Chopin.

9.20 Kalundborg : Waltz songs ; 9.40, Violin.

9.20 Vienna : Anne Roselle (songs).

PLAYS

4.0 Radio-Paris : Two plays.
 7.25 Sottens : A Christmas play.
 8.0 Vienna : Nativity play.
 8.15 Poste Parisien : Sketch and comedies.

8.30 Athlone : Nativity Play.

TALKS

5.30 Kalundborg and Columbia (U.S.A.) : A visit to Hans Andersen's House.
 6.0 German Stations : Dr. Goebbels.

DANCE MUSIC

9.20 Budapest 1 ; 9.35, Prague ; 10.0, Kalundborg ; 10.5, Warsaw ; 10.45, Paris (PTT), Radio-Paris, Strasbourg ; 10.55, Hilversum (301.5 m.) ; 12.0, Radio-Normandie.

tone), with the Radio Orchestra. Conductor : Hofmann. 9.15—Sports.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.) ; 13.5 kW. Transmits at intervals from 5.30 a.m.
11.30 a.m.—Station Orchestra. Conductor : Schimpl. Peterka (Baritone). 12.20 p.m.—For Farmers. 12.50—See Prague. 1.5—Record. 1.10—For Workers. 1.25-1.30—Water Level. 3.0—See Prague. 4.30—Play. 4.55—Hungarian Transmission : Talk ; Variety. 5.40—Talk. 5.50—See Prague. 6.10—Operetta (Plichta) from Moravská-Ostrava. 7.30—Talk. 7.45—Sports. 7.50—Songs ; Accordion. 8.10—See Prague. 9.20—News (Hungarian). 9.35-10.0—See Prague.

BRESLAU (Germany)

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

BRNO (Czechoslovakia)

922 kc/s (325.4 m.) ; 32 kW. Transmits at intervals from 5.30 a.m.
4.50 p.m.—German Transmission: Red Cross Appeal : Ella Kremser-Fischer (Songs), Perl Salon Orchestra. Overture, "Orpheus in the Underworld" (Offenbach). Song, "Tales of Hoffmann" (Offenbach). Aria, "La Bohème" (Puccini). Selection, "Die Puppenfee" (Bayer). Aria, "Der Freischütz" (Weber). Czardas, "Die Fledermaus" (Strauss) (Strauss).
5.50—See Prague.
6.10—Operetta (Plichta) from Moravská-Ostrava. 7.30—Reading. 7.45-10.30—See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.) ; 15 kW.
6.37 a.m.—Record. 6.40—Weather ; Gym. 7.0—Time ; Records. 7.25—News. 7.40—Gym. 8.0—Time ; Record. 8.5—Announcements. 8.15—Records. 8.25—News. 8.40—Records. 9.0—Records.
10.0—Orchestra. Conductor : Dejoncker. Mme. Dorian-Bornstein (Songs) and Seger's (Pfte.). March (Eenhacs). Overture, "Le grand Mogol" (Audran). Tout Paris (Waldteufel). Potpourri, Fortissimo (Kálmán). A Cypres (de Taeye). Kitten on the Keys (Confrey).
11.0—Records : "Carmen"—Opera (Bizet). In the interval at 11.55 : Announcements. 12.20 p.m.—Monologues. 12.30—Carmen (contd.). 1.0—News.

1.10—Radio Orchestra. Conductor : Gason. Two Spanish Dances (Fallá). Transaktionen - Walzer (Strauss). Nocturne, "Cocorico" (Ganne). Selection, "Show-Boat" (Kern). Study in Blue (Savino). Selection, "Tales of Hoffmann" (Offenbach). La danza (Rossini). Old French Songs (Broustet).

2.0—Records. Caprice futuriste (Malneck). Automne (Chaminade). Ballad Potpourri. Humoresque (Tchaikovsky-Kreisler). Le petit quinquin (Desrousseaux). Selection, "Eldorado" (Rutland-Clapham).
2.30—Lecture Recital by Georges Rency, with Georges Villier (Songs)—The Classical Song. (Illustrations from Caccini, Salvator Rosa, Legrenzi, Lully, Scarlatti, Purcell, Handel and Bach). 3.0—Concert by the Roland de Lassus Society, from Mons. Conductor : Weynandt. Berthe Serwir (Soprano), Jules Daems (Tenor) and Maurice de Groot (Bass). Lacrymosa from "Requiem" (Mozart). "The Seasons"—Oratorio (Haydn). In the interval at 4.7 : Records : Organ Concerto in D (Handel). 5.15—

SUNDAY (December 22)

"Forty Years of Song"—Recital by Willy Maury and Mme. Gilberte Legrand, with the Radio Orchestra. Conductor: Gason. In the interval at 5.30: Football Notes.

6.0—Orchestra. Conductor: Dejoncker. Derissen (Cello), Durand (Songs) and Gilman (Flute). Son p'tit chapeau d'paille annamite (Grillaert). Overture, "Tancred" (Rossini). Cello. Chanson Louis XIII et Pavane (Couperin). La plus belle (Waldteufel). Songs: (a) Pour t'avour au clair de lune (Scotto), (b) La dernière valse (Laigne), (c) Je te parle d'amour (Chwat). Serenade (Bruch). Grand'maman (Langer). Flute Solo (Pessard). Black Eyes. Three Light Pieces (Fletcher). 7.0—Address by the Rev. Father Draime, O.P.: God's Hour.

7.15—Mlle. Houbas (Songs). Cavatina, "The Pearl Fishers" (Bizet). Aria, "Hérodiade" (Massenet). Still wie die Nacht (Bohm).

7.30—Music Review. 7.45—For Book Collectors.

8.0—Franco-Belgian Concert from Paris. Part I, Sixteenth Century a-cappella Music by the Félix Raugel Choir. Mille regrets (des Pres). La bataille de Marignan (Jannequin). Ma mère, hélas (de la Rue). Bonjour mon cœur (de Lassus). La, la, l'oisillon (Mouton). Part II, Excerpts, "Joseph"—Oratorio (Méhul), by Planel, Lovano, Maria Branèze and the Raugel Choir. Part III, "Deux couverts"—One-Act Play (Sacha Guitry). Part IV, Modern Belgian Music. Symphony (Poot). Symphony for Fourteen Solo Instru-

ments (Chevreulle). In the interval: Talk: The Accession of King Albert. 10.0—News.

10.10-12.0 m't—Deltour Orchestra, from the Ancienne Belgique.

BRUSSELS (No. 2) (Belgium)
932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.

6.37 a.m.—Records. 6.40—Gym. 7.0—Records. 7.25—News. 7.40—Gym. 8.0—Records. 8.10—Review. 8.20—Records. 8.25—News. 8.40—Records.

9.0—Records: If you were the only girl (Ager). Waltz, Down the river of golden dreams (Klenner-Shikret). Potpourri (Hall). Danse ibérique (Nin). Potpourri, It's a lovely war (Somers). Habanera (de Sarasate). Selection, "Words and Music" (Coward). Idylle bretonne (Gennin). Hungarian Rhapsody (Liszt). Si-boney (Lecuona). March (J. F. Wagner). 10.0—Request Records.

11.0—Orchestra. Conductor: Dejoncker. Mme. Dorian-Bornstein (Songs). Berners (Saxophone). Overture, "Piccolini" (Guiraud). Meditation, "Thais" (Massenet). The Bouncing Ball, for Saxophone and Orchestra (Bauer). Marche funèbre d'un hanneton (Dubois). Songs. Intermezzo, Ananas (Siede). Berceuse de Jocelyn (Godard). Souvenir (Drdla). Song (Stolz). Week-end (Caludi).

12.0 noon—Radio Orchestra. Conductor: Gason. Brenders and Gras (Pftes.). Misson (Flute) and Graindorge (Pipes). Descriptive Piece, Boxe (Schoemaker). Caprice viennois (Kreisler). Three Waltzes for Two Pftes. (Chabrier). Dolce menuetto (Drdla). Tarantella for Flute and Pfte. (Wieniawsky). Excerpts, Scènes

écossaises (Godard). March, Pomp and Circumstance (Elgar). 1.0—News.

1.10—Records. Bullfighter March (Volpatti). Ain't misbehavin' (Waller). Tondeleye (Gay). Sphärenklänge (Strauss). Sporting Love (Mayerl). The Girl Friend (Rodgers). Hoppes (Lauwerijns). Theme with Variations, Folies d'Espagne (Ponce). Excerpt, "Gretna Green" (Guiraud). Aldershot Command Searchlight Tattoo. Hymn Medley. Excerpts, "Rigoletto" (Verdi). Arab Dance, "Peer Gynt" (Grieg). Zigeunerweisen (Sarasate). Selection for Clarinet, "Le Préaux clerics" (Wettge). Lyric Suite (Grieg). The Storm (Pattman). A ti utcatokba fenyesebb a csillag (Nador). Carnival in Paris (Svendsen).

3.30—Cantata (Defossez), from the Palais des Académies. 5.0—Mickey's Club Dance Band. In the interval at 5.30: Sports Notes.

6.0—Simone Ackermans and Marthe Baumann (Pftes.). Ronde brillant (Chopin). Andante and Variations (Schumann). Scherzo (Saint-Saëns).

6.30—Bogaers (Baritone). Wolfram's Aria, "Tannhäuser" (Wagner). The Dream, "Othello" (Verdi). Drinking Song, "Der Freischütz" (Weber); 6.45—Religious Address.

7.0—Records: Cantabile for Organ (Frank). Symphony in C (Atterberg). 7.30—Music Talk.

8.0—Programme from the Royal Flemish Opera, Antwerp: (a) Ballet (Daneau), (b) "Mater Dolorosa"—Opera (Sternefeld). "Aurora"—Ballet (Van Durme). In the interval: Alice Willemse recites. After the Programme, News. 11.0 (approx.)-12.0 m't—Records.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW.
9.30 a.m.—Address. 9.50—Hymn. 9.55—Religious Talk. 10.10—Choirs. 10.40—Time; Water Level; Amusement Guide. 10.45—Grigoras Dinicu Orchestra. 11.15—Sports Notes. 11.30—Orchestra (contd.). 12.15 p.m.—Time; Weather; News. 12.30—Orchestra (contd.). 1.0—News. 3.0—For Peasants. 4.0—Iancu Constantinescu Orchestra. 5.0—Talk. 5.15—Orchestra (contd.). 6.0—News. 6.15—Records. 6.55—Talk. 7.15—Vintila Bratianu Commemoration Programme. 7.45—Sports Notes. 8.0—Aca de Barbu and the Radio Orchestra. 8.30—News. 8.45—Romanian Music (Cuclin). Radio Orchestra. 9.55—News.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW.
8.15 a.m.—News. 9.0—Roman Catholic Service. 10.15—Protestant Service. 11.20—Time; Weather. 11.30—Opera Orchestra. Conductor: Rajter. 1.0 p.m.—Records. 2.0—For Farmers. 2.50—Rác Cigány Band. 3.30—Dezso Rexa. 4.0—Bertha Orchestra. 5.10—Programme by Arpad. 5.35—Lugossy (Tároगतó). 5.55—Talk: Tchaikovsky. 6.25—Magda Rigó (Arias, Songs). 7.0—Sports. 7.10—"The Three Guardsmen"—Comedy (Herczeg). 9.0—News. 9.20—Guttenberg Jazz Band. 10.10—Farkas Cigány Band. 11.5—Report.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW.
5.0 a.m.—See Hamburg. 7.0—Time; Weather; Water Level; For Farmers. 7.30—Fassbender Trio. 8.15—Address and Sacred Music. 8.45—Newspaper Review.

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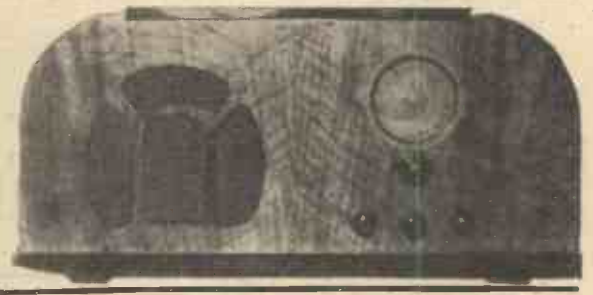
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9.0—See Königsberg. 9.30—Reading.
9.50—German Folk Songs. Station
Choir. Conductor: Breuer. Walter
Schneiderhan (Violin) and Grape
(Pfte.).
10.30—String Quartet in E flat (Beet-
hoven), by the Station Quartet.
Introductory Talk by Gehly.
11.0—Light Music. Station Orchestra.
Conductor: Eysoldt.
12.0 noon—Greetings.
12.5 p.m.—Orchestra (contd.).
1.0—Play for Children. 1.45—Humor-
ous Guessing Competition. 2.10—
Reading. 3.0—Station Orchestra and
Chamber Choir. Conductors: Kühn
and Breuer, Bassoon Quartet and
Soloists.
5.0—For Ex-Servicemen. 5.20—
"Kunstkrach in Kalduweit"—Play
(Vollmer).
6.0—Chamber Quintet. 6.45—Sports
Report.
7.0—See Munich.
8.0—See Stuttgart. 9.0—Time; News.
9.30-11.0—See Munich.

DEUTSCHLANDSENDER (Germany)
191 kc/s (1,571 m.); 60 kW.
5.0 a.m.—See Hamburg. 7.0—For Pea-
sants. 8.0—Freundorfer Band, Yodels,
Variety. 9.0—Talk. 10.0—Recitation.
10.30—Christoph (Wurlitzer Organ).
11.0—See Cologne. 1.0 p.m.—"The
Fir Tree"—Play after Andersen (Müller-
Hennig). 1.30—Records. 2.0—Talk;
Genealogy. 2.15—Records: Cigány
Music. 2.45—Two Pftes.
3.0—Rooz Band, from the Hotel Bristol,
Berlin. In the interval at 3.50: Read-
ings (von Kleist). 5.0—Old German
Christmas Carols (arr. Clauberg);
Station Chamber Choir and Berlin
Orchestra. Conductor: Görner. 6.0
—See Berlin.
6.30—"Christmas Oratorio" (Bach),
from the Singakademie, Berlin. Phil-
harmonic Orchestra and the Singakade-
mie. Conductor: Georg Schumann.
Neusitzer-Thoenissen (Soprano), Leis-
ner (Contralto), Walter (Tenor), Ditt-
mer (Bass), and Heitmann (Organ).
8.0—Barnabas von Gecky Band. Werner
Brink (Entertainer). 9.0—News.
9.30—"From Minuet to Viennese
Waltz." Rolf Ermeler (Flute), and Her-
bert Jäger (Pfte. and Harpsichord).
10.0-11.55—Dance Music. Barnabas
von Gecky and Lutter Bands.

FRANKFURT (Germany)
1,195 kc/s (251 m.); 25 kW. Relayed
by Cassel, Coblenz, Freiburg, Kaisers-
lautern, and Trier, 1,195 kc/s (251 m.).
5.0 a.m.—See Hamburg. 7.0—Time;
Water Level; Weather. 7.5—Gym.
7.45—Wind Band. 8.0—Protestant
Service. 8.45—Talk: Self-Criticism.
9.0—See Königsberg. 9.30—Choir.
10.15—Reading. 10.30—"Das Weih-
nachtsmysterium Matthias Grünewalds"
—Sequence (Fraenger).
11.0—See Berlin. 1.0 p.m.—Play for
Children (Alberti). 1.45—A Story. 2.0
—For Farmers.
3.0—See Cologne. 5.0—Play. 5.30—
Talk: Duty.
6.0—See Berlin.
7.0—Advent Concert. Station Choir and
Orchestra. Conductor: Belker. Hoepfel
(Soprano), Knoll (Tenor) and Johannes
Willy (Baritone).
8.0—See Stuttgart. 9.0—Time; News;
Sports Report.
10.0—See Deutschlandsender. 11.0-1.0
a.m.—See Stuttgart.

HAMBURG (Germany)
904 kc/s (331.9 m.); 100 kW. Re-
layed by Bremen, Flensburg, Hanover,
Magdeburg and Stettin, 1,330 kc/s
(225.6 m.).
5.0 a.m.—Harbour Concert. 7.0—

Time; News. 7.20—Gym. 7.45—Art
Notes. 8.0-9.15 (from Hanover)—
Symphony Orchestra. Conductor: von
Sosen. 9.30—Meditation. 10.0—
Report: Glassblowers (on Records).
10.30—See Leipzig.
11.0—See Berlin. 1.0 p.m.—For Child-
ren: Readings, Recitation, Songs to
the Lute and Christmas Play (Woll-
mann).
2.0 (from Hanover)—Orchestra. Con-
ductor: von Sosen. 2.30-2.50—
"Christmas"—Dialogue.
3.0—See Cologne. 4.0—"Christa and
the Pit Ponies"—Play (Maass-Sidow).
4.50—German Christmas Music from
Kiel. Kiel Orchestra. Conductor:
Döring. Overture, "The Messiah"
(Handel). Mariä Wiegenlied (Reger).
Hirtenmusik zur Weihnacht (Nie-
mann). Christmas Pastorale (Müller).



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this week

Frieden der Nacht (Reinecke). Weih-
nachtsabend (Reinecke). Overture,
"Die Königskinder" (Humperdinck).
5.35—Sports; Weather.
6.0—See Berlin.
8.0—See Stuttgart. 9.0—News.
9.30-11.0—See Munich.

HILVERSUM (1,875 m.) (Holland)
160 kc/s; 10 kW until 2.40 p.m.;
100 kW from 2.40 p.m.
8.10 a.m.—N.C.R.V. Programme.
Sacred Music for Baritone and Organ.
9.10-4.40 p.m.—K.R.O. Programme.
9.10—Missa Cantata. 9.25—Records.
11.55—K.R.O. Orchestra. Conductor:
van 't Woud. In the interval at 12.40:
Book Review, and at 1.40: Religious
Address. 2.40—Talks; Records. 3.40—
Records; For Invalids.
4.40-7.25—N.C.R.V. Programme. 4.40
—Sacred Music. Choir and Organ.
5.10—Service; Sacred Music.
7.25 till Close Down—K.R.O. Pro-
gramme. 7.25—News; Talk.
7.55—K.R.O. Symphony Orchestra.
Conductor: van Goudoever. Jo Vincent
(Soprano). In the interval at 8.40:
Recitations. 9.45—Jo Vincent (Soprano)
and Boshart (Pfte.). 9.55—Records;
News. 10.20-10.40—Epilogue.

HILVERSUM (301.5 m.) (Holland)
995 kc/s; 15 kW until 2.40 p.m. and
60 kW from 2.40 p.m.
8.35-9.40 a.m.—V.A.R.A. Programme.
8.35—Jong (Organ). 8.40—Football
Report; Talk. 9.10—Organ (contd.).
9.25—Talk.
9.40-11.40—V.P.R.O. Programme. 9.40
—Religious Programme for Children.
10.10—Service.
11.40-4.40 p.m.—A.V.R.O. Programme.
11.40—Chimes. 11.41—Talk: The
Cinema. 12.10 p.m.—The "Octo-
phonikers." Conductor: Drukker.
1.10—Records. 1.40—Book Talk.
2.10—Opera Music. A.V.R.O. Orches-

tra and Soloists. Conductor: van
Raalte. 3.50—La Volpe (Pfte.). 4.10—
Carols. 4.30—Sports.
4.40-7.40—V.A.R.A. Programme. 4.40
—V.A.R.A. Orchestra. Conductor:
de Groot. 5.10—Talk; News; Re-
cords. 5.40—Orchestra (contd.). 6.10
—Dramatic Programme.
6.40—Variety. Conductor: Walis.
Lisette Stevens and Dongen (Songs),
Rossican (Pfte.).
7.40-11.40—A.V.R.O. Programme. 7.40
—News. 7.55—"Winter Folly"—
Revue (de Haas), Music by Tak. 9.25—
News.
9.40—A.V.R.O. Orchestra. Conduc-
tor: van Raalte. Bosmans (Pfte.).
10.10—"Popular Melodies of 1935"—
Kovacs Lajos Orchestra and Soloists.
10.40—News; Sports. 10.50—Records.
10.55-11.40—Meenk Dance Band.

KALUNDBORG (Denmark)
238 kc/s (1,261 m.); 60 kW. Re-
layed by Copenhagen, 1,176 kc/s
(255.1 m.).
7.0 a.m.—Gym. 7.30—Weather. 8.15-
8.45—For Gardeners. 9.0—Service
from Copenhagen Cathedral. 10.30—
Weather. 10.40—News.

11.0—Rydahl Instrumental Ensemble.
March (Lincke). Pesther-Walze
(Lanner). Suite in Old Style (Rydahl).
Selection, "Paganini" (Lehár).
Mattinata (Leoncavallo). Mélodie
d'amour (Schröder). Mélodie mélan-
colique (Schröder). Czardas (Kál-
mán).
12.0 noon—English Talk: On Christ-
mas Day in the Morning. 12.20 p.m.—
German Talk: A German Nativity
Play. 12.40—Reading of French
Poems.
1.0—Records. Aria, "Czar and Carpen-
ter" (Lortzing). O Rouxinol (Coelho).
Shepherds hey (Grainger). Country
Gardens (Grainger). Finale, Act II,
"The Gipsy Baron" (Strauss).
Sailors' Waltz (Lindberg). D'Halter-
buam (Michalky). Neapolitan Song.
Varca Napuletana (Frustaci).
1.30—Children's Choir. Conductor:
Kirstine Friis-Hjorth.
2.0—Radio Orchestra. Conductor:
Reesen. Overture, "Alceste" (Gluck).
Le tombeau de Couperin (Ravel).
Sphärenklänge (Strauss). Slav Dance
(Dvořák). Overture, "The Merry
Wives of Windsor" (Nicolai). Waltz,
"Der Rosenkavalier" (Richard
Strauss). Suite champêtre (Sibelius).
Intermezzo, "Tiefland" (d'Albert).
Slav March (Tchaikovsky). In the
interval at 2.50: Knud Andersen
reads.
4.0—Service from Christiansborg Castle
Church. 5.20—Weather. 5.30—A
Visit to Hans Andersen's House in
Odense (for the Columbia System,
U.S.A.). 6.0—News; Sports. 6.30—
Talk.

SUNDAY (December 22)

7.0—Opera Music. Radio Orchestra.
Conductor: Gröndahl. Bruusgaard
(Songs). Overture, "Fidelio"
(Beethoven). Two Arias, "The Magic
Flute" (Mozart). Ballet Music,
"Idomeneo" (Mozart). Overture,
"Euryanthe" (Weber). Aria, "The
Force of Destiny" (Verdi). Bac-
chanal from "Samson and Delilah"
(Saint-Saëns).

8.10—"The Hansen Family"—Sketch
(Locher).

8.25—Records of Rachmaninov (Pfte.).
Polka (Rachmaninov). Man lebt
nur einmal (Strauss-Tausig).

8.40—Pictures from Daily Life. 9.10—
News.

9.20—Waltz Songs by Karin Munk.
Liebeswalzer (Strauss). Dorf-
schwalben aus Oesterreich (Strauss).
Songs from "Ihr grösster Erfolg"
(Grothe).

9.40—Italian Music by Esbensen (Violin).
Sonata in G minor—Trillo del
Diavolo (Tartini). Canto amoroso
(Sammartini). Variations on a
Theme of Corelli (Tartini).

10.0-11.30—Petersen Dance Band from
the Nimb.

KÖNIGSBERG (Heilsberg) (Germany)
1,031 kc/s (291 m.); 100 kW. Re-
layed by Danzig, 1,303 kc/s
(230.2 m.).

5.0-7.0 a.m.—See Hamburg. 7.20—
Hunting—Sequence with Music. 8.0-
8.45—Protestant Service. 9.0-9.30—
"Sterne über den Hütten"—Advent
Poem (Menzel) with Music by Henning.
10.0—For Mothers. 10.15—Announce-
ments. 10.30—Christmas Music (arr.
Knab). Lobeda Choir. Conductor:
Groke.

11.0—See Berlin. 1.0 p.m.—Chess
Lesson. 1.30 (from Danzig)—"Christ-
mas"—Literary and Musical Sequence.
2.0—Book Review. 2.15—"The Sleep-
ing Beauty"—Fairy Play (Vahlpahl-
Hufeld), with Music by Hufeld.
Station Orchestra. Conductor:
Wilcken.

3.0—See Cologne. 5.0—Report: Gin-
gerbread-Bakeries. 5.20—"O ns
Hundke"—Play in Dialect (Bink).
6.0-8.0—See Berlin.

8.0—See Stuttgart. 9.0—News. 9.20—
Sports Notes.

9.40-11.0—Station Orchestra. Con-
ductor: Wilcken. Overture, Pretoria
(Carste). Auf der Heide blühen die
letzten Rosen (Stolz). Tal ab (Kletzki).
Waltz, Ein Frühlingstag in Garmisch
(Löhrl). Novellette (Gebhardt). Can-
zonetta (d'Ambrosio). Selection,
"Das Fürstenkind" (Lehár). Argenti-
ne Tango (Garbo). Potpourri,
Wenn wir durch die Stadt marschieren
(Blume). Meine schönsten Lieder
(Lautenschläger). Ungarische Heimat
(Melichar). March, Old Soldiers
(Müller-Kraftsdorf).

LEIPZIG (Germany)
785 kc/s (382.2 m.); 120 kW. Re-
layed by Dresden, 1,285 kc/s
(233.5 m.).

5.0 a.m.—See Hamburg. 7.0—Service.
7.30—Strobach (Organ). 8.0—An-
nouncements. 8.25—Weida Male Voice
Choir. 9.0—Literary Programme.
9.45-10.15—Genzel Quartet and Carl
Bartuzat (Flute).

10.30—"Dazu ist erschienen der Sohn
Gottes"—Cantata (Bach). Soloists,
Gewandhaus Orchestra and St. Thomas'
Choir. Conductor: Straube.

11.0—See Berlin. 1.0 p.m.—Time;
Weather. 1.5—Reading.

SUNDAY (December 22)

1.30—Light Music. Leipzig Symphony Orchestra. Conductor: Kretzschmar.

2.30—Talk: Old Christmas Festivals. 3.0—"A Trip into Toyland"—Variety for Children. 4.30—Reich Motor-Road Workers' Christmas—Programme on Records.

5.15—Old Dutch Christmas Music—Vocal and Instrumental with Commentary. 6.0—See Berlin. 7.0—"Christmas Legend"—Sequence (Raschke), with Music by Rosenberger. 8.0—See Stuttgart. 9.0—News.

9.30-11.0—Leipzig Symphony Orchestra. Conductor: Hilmar Weber. Polonaise in E (Svendsen). Courante, Sarabande, Minuet and Bourrée (Ambrosius). Ballet Music, "Faust" (Gounod). Excerpts from a Ballet Suite (Reger). Rhapsody in B minor (Hartung). Waltz and Caprice (Blumer). Waltz, Künstlerleben (Strauss). Minuet and Farandole (Bizet).

LILLE (Radio PTT Nord) (France)
1,213 kc/s (247.3 m.); 60 kW.

Transmits at intervals from 6.50 a.m. 12.0 noon—Station Orchestra, Conductor: Soret. Soloist: Edgard Deraut.

1.0-2.0 p.m.—See Paris (PTT). 2.0—Concert from the Cirque Théâtre, Angers. 6.30—Topical. 7.30—Tango Records. 7.45—Sports. 8.0—Variety (on Records).

3.30—"Winter"—Station Orchestra, Conductor: Soret. Lemoine (Recitations) and Sellose. Promenade en traineau (Matt). Waltz Suite, A Winter Tale (Czibulka). Recitation: La retraite de Russie (Hugo). Winter (Granados). Sellose and Orchestra: (a) Le Givre (Dupont), (b) Il a neigé (Marinier). Am Kamin (Schumann). The Snow is dancing (Debussy). Talk: Winter. Piece (Jessel). En Hiver (Fiévet). Recitations. Winter Moonlight (Meyer-Helmund). Sellose and Orchestra: L'hiver a ses beaux jours (Chabroux). Excerpts, The Seasons (Tchaikovsky). Winter (Verdi).

10.0—Station Orchestra. Conductor: Soret. Selection, "Elle est à vous" (Yvain). March-Intermezzo, Heintzelmännchens Wachtparade (Noack-Weninger). The Squirrel (Elliot Smith). Chanson du Gave (Fauchey). Intermezzo (Capri). Bonne maman (Gillet).

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 10.0 a.m. 11.0—Italian Song Records. 11.29—Weather.

11.33—Radio Orchestra. Conductor: Casella.

11.55—News. 12.5 p.m.—Orchestra (contd.). 12.25—Talk. 12.30—Chiasso "Melodia" Male Voice Choir. Conductor: Rampoldi.

1.0-1.30—Songs of the Bernese Oberland by Gritli Wengen and the Cinque Villici. 4.0—Sports.

4.5—Radio Orchestra. March (Rosey). Waltz "The Merry Widow" (Lehár). Overture, "Aroldo" (Verdi). Hungarian Dance (Brahms). 4.25—Talk: Christmas Customs.

4.40—Orchestra (contd.). Potpourri, From Gluck to Wagner (Schreiner). Polka, Nasi rossi (Becucci).

4.55—Sports. 5.0—For Children. 5.15—Records: American Variety Stars. 6.0—Sports. 6.20—Johanne Rauch-Godot (Cello); Nino Herschel (Pfte.). 6.45—News; Sports. 7.0—Opera Evening. 8.0—Talk: The Italian Language in Lausanne.

8.15—French Music. La Ménestrandie Old Instruments Ensemble. Fantasia for four Violas (Du Caurroy). Dan-series de la Renaissance française—for Four Violas. Concert royal (Couperin). Sonata for Viola d'amore and Harpsichord (Marc). 9.0-9.15—Sports.

MOSCOW (No. 1) (Russia)

174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m. 11.0 a.m.—Concert. 12 noon—Music. 1.0 p.m.—Swedish Programme: Weekly Review and Talk on the Stakhanov Movement. 2.15—For Children. 3.0—News. 3.13—Records.

5.20—Koval Concert. Songs, "The Accursed Past," and "1905." Negro Songs. 5.45—Soviet Poetry.

7.0—French and Viennese Operetta Music. Excerpts, "Le coeur et la Main" (Lecocq) and "The Bird-Fancier" (Zeller).

8.0—Talk in German: The Moscow Barricades of 1905. 8.55—Chimes. 9.5—Weekly Review; Questions and Answers (in English). 10.0—Literary Programme in German: Henri Barbusse on Stalin.

MUNICH (Germany)

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

5.0-7.0 a.m.—See Hamburg. 7.45—Protestant Service. 8.15 (from Nürnberg)—Christmas Cantata (Knab). Choir, Soloists and Orchestra. 9.0—Literary and Musical Programme. 9.30—Folk Music. Choirs and the Detzer Wind Band. 10.40—"Peasants"—Radio Picture (Holz).

11.0—Military Band from the Feldherrnhalle. Conductor: Bunge. March (Blon). 1812 Overture (Tchaikovsky). Rhapsody No. 2 (Bunge). Invitation to the Dance (Weber). March, Am wunderschönen Rhein (Schwarz).

11.55—Time; Weather; Programme Announcements.

12.0 noon—Orchestra. Conductor: Rammelt. Polonaise in A (Chopin). Overture, "Die Loreley" (Bruch). Selection, "Tiefand" (d'Albert). Scènes pittoresques (Massenet). In a Clock Store (Orth). A Festival in Aranjuez (Demersseman).

1.0 p.m.—For Children. 1.15—"Weltnacht den Müttern"—Sequence in Verse and Song (Baumann).

1.45—Richard Mahn Songs to the Lute, relayed from Augsburg. Klötzer (Soprano), Angele (Tenor) and Hild (Lute).

2.5—Fiddle Trio, Hans Hoffmann (Tenor) and Konrad Lechner (Recorder and Fiddle). 2.40—Literature and Landscape—Review.

3.0—See Cologne. 5.0—"Children"—Sequence with Music (Kuhnert). Soloists, Ludwig Schmidmeier (Organ) and the Station Dance Band. 6.0—Sports Notes. 6.20—Vocal and Instrumental Concert. 6.45—Talk: Road-planning (on Records).

7.0—Otto Jochum Christmas Music from Augsburg. Children's Choirs and Orchestra. Conductor: the Composer. Karl Wunsch (Organ). Rorate coeli. Macht hoch die Tür. Die Lind' im Himmelreich. Ave Maria zart. Marientraum. Maria durch ein' Dornwald ging. Felsenharte Bethlehemiten. Es kam die gnadenvolle Nacht. Was muss denn wohl geschehen sein. Es blühen die Maien. Von Himmel hoch. Kommet, ihr Hirten. Et incarnatus est. Still, o Erden. Stille Nacht. O Jesulein zart. Josef, lieber Josef mein. Christ und die Welt.

8.0—See Stuttgart.

9.0—Time; News.

9.30-11.0—Station Dance Band and Schrammel Ensemble. Conductor: Aulich. Mimi Thoma (Contralto). Ludwig Schmidmeier (Pfte.).

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 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 Trøndelag, 629 kc/s (476.9 m.).

8.0 a.m.—News. 8.5—Schumann Records. 9.0—Talks. 9.30—Handel



Anne Roselle gives a recital at Vienna (9.20 p.m.)

Records. 9.55—Service. 11.45—News. 3.30 p.m.—Norwegian Folk Music. 4.0—Concert. 5.0—Talk. 5.30—Gunnar Norr (Songs), de Martens (Harp). 6.10—News. 6.15—Announcements.

6.30—Station Orchestra. Conductor: Kramm. Overture, "Abu Hassan" (Weber). Horn Concerto in E sharp (Mozart). Symphony in G (Haydn). Turkish March (Beethoven). 7.20—Reading.

7.40—Orchestra (contd.). Selection, "Cavalleria rusticana" (Mascagni). Intermezzo (Kodaly). Cherry Ripe (Scott). Norwegian Folk Tunes (arr. Haaland). 8.20—Talk. 8.40—News. 9.0—Topical. 9.15—Sports.

9.30-10.0—Classical Music in Jazz Rhythm. Song on a Theme from the Pathetic Sonata (Beethoven-Weston). Liebestraum (Liszt). Hungaria et Isoldine (Doucet). Chant hindou (Rimsky-Korsakov). Melody (Rubinstein). Chopinata (Doucet). Barcarolle (Offenbach).

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 20 kW. Transmits at intervals from 8.0 a.m. 6.45 p.m.—News. 6.55—Topical Reviews. 7.10—Weather; Racing Results. 7.20—Topical Reviews. 8.15—News. 8.30—Folk Songs of Burgundy. Soloists: Mlle Pifteau and Georges Petit.

9.0-10.0—Records. Part I. Schubert. Overture, "Rosamunde." Songs by Mme. Martinelli: Die schöne Müllerin. Part II. Light Music. La Feria (Lacôme). Noël (Lacôme). Mascarade (Lacôme). Pensée tyrolienne (Blangy-Marchais). Waltz (Saint-Servan-Marchais). Elle, rien qu'elle (Scott). La vie en rose (Andrieu). Angelus du soir (Andrieu). Part III. Dance Music.

PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW. 8.0 a.m.—News. 8.33—Records. 8.55—Talk: Ski-ing. 8.59—Cookery. 9.0—News. 9.23—Records. 9.30—Records. 10.35—Debussy Recital with Commentary by Maurice Rostand. 11.18—"Soldiers—Records." 11.33—"In the Café"—Records. 11.48—Tango. Re-

ords. 12.5 p.m.—Records for Children. 12.15—Variety. 12.45—An Interview. 12.50—Olga Valery and Jysor (Songs).

1.30-2.15—Records. The Blue Danube (Strauss). Jeunesse. Selection, "The Land of Smiles" (Lehár). Aria, "Werther" (Massenet). In the interval at 1.45: The Medrano Circus..

4.0—Records: Light Music. 7.0—News. 7.10—Sports. 7.20—Amusements. 7.24—Records.

7.50—Records: "Carmen" (Bizet). Alice Raveau and the Paris Philharmonic Orchestra. Conductor: Cloez. 8.15—"Simone in Russia"—Sketch. Marguerite Moreno and the Sibirtzev Ensemble.

9.0—One-Act Comedies: (a) "Choc en retour" (Menuau), (b) "Fausse monnaie" (Cléray-d'Hervilliez). 10.30-12.0 m't—Records: Light Music.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. 6.50 a.m.—Weather. 7.0—News. 7.40—Illustrated Press Review. 8.0—News. 8.40—Sports Notes. 9.0—News. 9.45—For Children.

10.15—Locatelli Orchestra. Malloire (Songs). Une fête à Aranjuez (Demersseman). Sérénade hongroise (de Joncières). Valse bluette (Drigo). Selection, "Un bon garçon" (Yvain). Berceuse (Locatelli). La Sorcière (Casadesus). Russian Suite (Doyen). Japanese Screen (Ketelbey). Romance (Gingold). Ballet Music, "Manon" (Massenet). Songs: (a) Il est une maison (Cazes-Gold), (b) Obsession (Cazes-Alberty), (c) Les rêves de mon coeur, (d) Adieux (Durel). Canzonetta (d'Ambrosio). Scènes humoristiques (Léonard). The Cherry Festival (Niemann).

12.0 noon—Talba (Songs). Sur la tombe d'un enfant (Leroux). Le Rucher (de la Presle). Les gondoles sont là (Canat). Chanson des pêcheuses de nuit (Lenormand). Chanson orientale (d'Ollone).

12.15 p.m.—Derveaux Jazz Band. 1.0—Sports Notes. 1.10—News. 1.30—Band (contd.).

2.0—Two One-Act Comedies: (a) "Premier prix de Piano" (Labiche-Delacour), (b) "Histoire ancienne" (About-de Najac).

3.0—Concert. 4.30—"Il pleut des mensonges"—Comedy in One Act (de Mackiels).

5.0—Variety Concert. Mme. Roger Miclos (Pfte.). Charlotte Dauvia (Songs), André Pascal (Violin), Renée Gilly (Songs), and Jacques Cossin (Entertainer). Pfte.: French Suite (Bach). Andante and Finale from the Pfte. Sonata in E (Mozart). Songs: (a) Le long des berges grises (Laurent-Romans), (b) Bel amigo (Valmy-Ulry), (c) La petite maison de campagne (Zeppilli-Boyer), (d) Un corps sans âme (J. P. Ordner-H. Ordner). Violin: (a) Romance in F (Beethoven), (b) Liebesleid (Kreisler), (c) Une chasse au Loin (Gaubert). Songs: (a) Waltz Gounod, (b) Soir (Gounod), (c) Aria, "Werther," (d) Aria, "Don Quixote" (Massenet), (e) Arioso (Delibes). Two Sketches by Jacques Cossin.

6.30—Topical Reviews. 7.45—Gilles and Julien. 8.15—Sports Notes.

8.30—"Chilperic"—Operetta in Three Acts (Hervé). Conductor: Rosenthal. 10.30—News. 10.45—Goldy Dance Band.

PARIS (Radio-Cité) (France)

1,068 kc/s (280.9 m.); 0.8 kW. 7.0 a.m.—Records. 7.5—News. 7.15—Records. 7.45—Press Review. 8.0—Records. 8.15—Racing. 8.30—Records. 8.45-9.0—News.

12.0 noon—Topical. 12.15 p.m.—News. 12.30—Song Records. 12.45—

Rumbas. 1.0—Military Band Records. 1.15—Quintet, with Michel Warlop. 1.30—Topical. 1.45-2.0—Quintet, with Michel Warlop. 7.0—News. 7.15—Topical. 7.45—Records of the Ilja Livschakoff Band. 8.0—Music Hall. 8.30—Records of the Castilian Troubadours. 8.45—Records: Old French Successes. 9.0-9.15—Opera Records.

PARIS (Radio-Paris) (France)
182 kc/s (1,648 m.); 80 kW.

7.0 a.m.—Records. 7.15—Time; News. 7.45—Gym. 8.0—Records: Italian Opera Music. 8.30—French Music. 9.0—Italian Lesson. 9.20—English Lessons. 10.0—Book-keeping Lessons. 10.40—Spanish Lesson.

11.0—Poulet Concert Orchestra. Conductor: Tomasi.

12.0 noon—Duruffé (Organ). Pour l'amour de Marie (Le Bègue). Noël (Daquin). Sœur Monique (Cuperin). Communion sur un Noël (Huré). Pastorale (Franck). Noël (Daquin).

12.30 p.m.—Religious Address by the Reverend Father Dieux. 12.50—News. 1.0—Poulet Concert Orchestra. Conductor: Tomasi. Soloist: Hélène Baudry. 2.0—Bilboquet.

2.15—Janine Carlyse (Songs). J'aime à chanter au bord de l'eau (Schmitt-Neuville). Un soir, pas davantage (Richepin-Batell). D'une fenêtre (Carlyse-Valsien-Leary). Bas de laine... bas de soie (Pearly).

2.30 (approx.)—Paris Plucked String Orchestra. Conductor: Féret. Overture, "Joseph" (Méhul). Gavotte, "Armide" (Gluck). Selection, "A Night in May" (Rimsky-Korsakov). Minuet (Haydn). Slav Airs and

Dance (Dvořák). Sérénade florentine (Féret). Old Comrades (Teike). 3.0—Variety Concert with "Ils étaient trois petits enfants"—Two-Act Comedy (Suzanne de Sainte-Croix-Coarem). 4.0—Two One-Act Comedies: (a) "L'étincelle" (Pailleron), (b) "Je dine chez ma mère" (Decourcelle-Lambert-Thiboust). 5.0—"Messiah" (Handel) from the Opéra-Comique. Padeloup Concert Orchestra, Paris Philharmonic Choir and Soloists. Conductor: Ernest Lévy.

7.0—Jacques Leduc and Tina Sorel (Songs). L'amour qui passe (Gerard-Richepin). La dernière bergère (Sauvat-Siniavine). Sur l'eau (Dorly-Marquis). La lettre (Guitry-Hahn). Canzonetta (Scarlatti). Sérénade (Barelli). Ton sourire (Catherin). Myrrha (Dupont).

7.30—Radio-Paris Guignol by Bilboquet and his Troupe. In the interval: Polichinelle.

8.0—Franco-Belgian Programme. National Orchestra. Conductor: Inghelbrecht; Raugel Choir and Soloists. Choir: (a) Mille regrets (Joaquin des Prés), (b) La bataille de Marigna (Jannequin), (c) Ma mère, hélas (de la Rue), (d) Bonjour mon cœur (de Lassus). Selection, "Joseph" (Méhul). "Deux couverts"—One-Act Comedy (Sacha Guitry). Symphony (Marcel Poot). Symphony (Chevreuille). 10.0—To be announced. 10.45—Dance Music by the Chapelier Orchestra. 11.15-12.15 a.m. (Monday)—Light Music by the Chapelier Orchestra.

PRAGUE (Czechoslovakia)
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 5.30 a.m. 11.0 a.m.—Chimes. 11.5—Announce-

ments. 11.10—News. 11.20—Musical Guessing Competition. 11.30—See Bratislava. 12.20 p.m.—For Farmers. 12.50—Talks. 1.15-1.30—For Farmers (German). 3.0—Orchestra from Kosice. 4.30—Reading. 4.45—Record. 4.50—German Transmission: Play (W. Seidel), Music by Kurt Seidel. 5.50—News (German). 5.55—Record. 6.0—News. 6.5—Sports. 6.10—Operetta (Plichta), from Moravská-Ostrava. 7.30—Talk: Desert Lore. 7.45—Sroubek (Violin), Riha (Clarinet), Povolny (Horn), Maxian (Pfte.). Perpetuum mobile (Karbulka). Quasi ballata (Suk). Trio in F minor (Mendelssohn).

8.10—Paris—Variety (Records). 9.0—News; Sports. 9.20—Record. 9.25—News; Sports (German). 9.30—Record. 9.35-10.30—Osten Dance Band.

RADIO-NORMANDIE (France)
1,113 kc/s (269.5 m.); 15 kW.

7.0 a.m.—Records; News. 8.0—Records. 8.15—Time; News. 8.30—Sacred Music; Records. 9.0—Time; Records. 9.15—Music. 9.45—Records. 10.0—Waltzes. 10.15—Records. 10.30—Orchestra. 10.45—Records. 11.0—Time; Records.

11.30—Orchestra. 12.0 (noon)—Revue. 12.30 p.m.—Sacred Music; Roman Catholic Address. 12.45—News. 1.5—Concert. 2.0—Records. 3.0—Orchestra. 3.15—Military Band. 3.30—Music. 4.0—Tea-Time Hour. 5.0—Music. 5.15—Records. 5.45—Dance Music. 6.0—Records. 6.30—Music. 6.45—Records. 7.0—Concert. 7.45—News. 8.0—Operetta and Opera Music. 8.35—Sports. 8.45—Opera Music. 9.20—Interview. 9.30—Organ. 9.45—Music. 10.15—Records. 11.0—Christmas Music. 11.30—Music. 12.0 m't-2.0

SUNDAY (December 22)

a.m. (Monday)—Dance Music. In the interval at 12.30: Time.

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.).

Transmits at intervals from 7.35 a.m. 12.0 noon—News. 12.10 p.m.—Records: Famous Italian Singers. 12.40—Musical Parody. 1.15-2.0—Mediterranean Programme. 3.0—Records; Sports. 3.30—Experimental Relay from Asmara.

4.0 p.m.—Symphony Concert from the Augusteo. Conductor: Bossi. Adolf Busch (Violin). In the interval: Sports Notes; Weather. After the Concert: Football Report. 6.30—Announcements. 7.0—Music Lesson. 7.25—News; Talk.

7.30—Italian Operetta Music. Overture, "I granatieri" (Valente). Chorus and Introduction, "Cin-ci-là" (Ranzato). Duet, "La Regina del fonografo" (Lombardo). Waltz, "La reginetta delle rose" (Leoncavallo). Duet, "Il paese dei campanelli" (Ranzato). Sextet, "Calandrino" (Cuscinà). Tenor Song, "Il Re di Chez Maxim" (Costa). Duet, "E' arrivato l'Ambasciatore" (Bellini). Duet, "Il Capitan Fracassa" (Costa). Soprano, "Addio giovinezza" (Pietri). Duet, "La duchessa del Bal Tabarin" (Lombardo). Finale "Addio giovinezza" (Pietri). In the interval: Film Notes.

8.45—"Cantatrici Italiane" Choir, Conductor: Pacifico. Forti (Organ). Organ: (a) Toccata (Renzi), (b)

STRIKING TESTIMONY

CHURCHILL DRIVE,
JORDANHILL,
GLASGOW, W.I.
The Manager,
Messrs. British Belmont Radio Ltd.

Dear Sir,
While listening to a broadcast from Schenectady, New York, on Monday the 11th inst., about 10 p.m., on a 7-valve Belmont Receiver, I distinctly heard the Broadcast from the Balloonists who had reached the Stratosphere an hour or so previously. They were then descending and were about 30,000 feet from the earth. Their report to Schenectady came through very clearly, every word being heard quite distinctly. I also heard the conversation between a Reporter in London who was also in touch with the Balloonists via Schenectady, which means I heard London via Schenectady. I consider the reception was exceptionally good, and I am very satisfied with the Receiver.
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SUNDAY (December 22)

Scherzo (Schumann), (c) Pezzo eroico (Bossi). Choir: Canzone alla Vergine (Durante), (b) L'anello rapito (Scarlatti), (c) Canzoni corali mantovane (Massarani), (d) Invocazione alla notte (Spontini), (e) La pastorella (Montanaro), (f) Che passione (Albanese), (g) Tarantella abruzzese (Tancredi). Organ: Two Pieces (Dich): (a) Waltz (Forti), (b) Selection, "Mitizi" (Allegra). 9.45—News.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 25 kW. Relayed by Geneva, 401 kc/s (748 m.). 8.55—11.30 a.m.—Programme from Geneva. 8.55—Chimes. 9.0—Protestant Service. 10.15—Records. 11.0—Roger Wuataz (Carillon) from St. Peter's Cathedral, Geneva. 11.20—Records. 11.30—News. 11.40—1.0 p.m. (from Geneva)—Records. 3.30—Records. 4.0 till Close Down: Programme from Geneva. 4.0—Geneva Mandoline Band and the "Alp-Echo" Jodel Club. 5.0—Records. 5.15—Christmas Story for Children. 5.40—Records. 6.10—Religious Address. 6.40—Sports Notes. 7.0—Excerpts from the Christmas Liturgy by the "Schola de Sainte-Croix." Conductor: Carraz. 7.25—"Noël dans la famille de Mistral"—Christmas Play (Rousset). Children's Choir. Conductor: Rudhardt. 7.55—9.0—Radio Suisse Romande Orchestra. Conductor: Baud-Bovy. In the interval: News.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.). Transmits at intervals from 8.0 a.m. 10.0 a.m.—Service, from St. Hedwig's Church, Norrköping. 11.40—News. 2.0 p.m.—Temperance Talk. 2.30—Harry Sanger (Songs), and Otto Kyndel (Violin). Songs (Widén). Violin: (a) Grave (Friedemann-Bach-Kreisler), (b) La précieuse (Couperin-Kreisler), (c) Andantino (Martini-Kreisler). Songs (Nordqvist). 3.0—For Young People. 3.30—Records. 4.0—Weather. 4.5—Records. 4.30—Reading. 5.0—Baptist Service from Luleå. 6.15—News. 6.30—"Christmas Eve"—One-Act Play (Fastbom). 7.0—Radio Orchestra. Conductor: Grevillius. Marianne Mörnér (Songs). Suite (Jonsson). Songs (Peterson-Berger). O dear, what can the matter be? (Cyril Scott). Country Gardens (Grainger). Rhapsody in D (Liszt). Turandot Suite (Atterberg). Midsommarafton (Alfvén). In the interval: Reading, En julgäst (Selma Lagerlöf). 8.45—News. 9.0—10.0—Ender Orchestra. Overture, "Orpheus in the Underworld" (Offenbach). Flower Waltz, "Naïla" (Delibes). Selection, "Samson and Delilah" (Saint-Saëns). Song, "White Horse Inn" (Stolz-Benatzky). Potpourri (Taube). Drunt in der Lobau (Strecker). Selection, "White Horse Inn" (Stolz-Benatzky).

STRASBOURG (France)

859 kc/s (349.2 m.); 120 kW. 6.30 a.m.—Orchestra. Conductor: de Villers. Roskam (Cello). Marche grecque (Ganne). Scènes alsaciennes (Massenet). Ballet Music, "Isoline" (Messenger). Le pas des fleurs (Delibes). Cello and Orchestra: Chants russes (Lalo). Selection, "Samson and Delilah" (Saint-Saëns).

7.30—News (in German). 7.40—Gym. 8.0—News.

9.45—Protestant Service from the "Temple Neuf."

11.0—"Tristan and Isolde" (Wagner) on Records. 11.30—Roman Catholic Service (in German). 12.0 noon—Records. 12.45 p.m.—News.

1.0—Alsation and Swiss Music. "Les Cigales de Haguenau" Choral Society. Conductor: Bruyer. Frühlingswandern (Geiger). The Pyrenées (Kritter). Wünsche des Verliebten (Simon). Chant de noce (Bovet). Unterm Haselbusch (Geiger). Adieu, petite Rose (Jaques-Dalcroze). Marinette (Jaques-Dalcroze). Mein Schätzchen ist fein (Reysz). Wenn die Linde blüht (Reysz). La bergère d'Orbe (Bovet). Le chagrin de Madeleine (Bovet). Mein Elsass (Kritter).

2.30—Conservatoire Concert from the Salle Poiré, Nancy. Soloists, Choir and Orchestra. Conductor: Bachelet. Mme. Marcelli-Herson (Cello). Excerpts, "Manfred" (Schumann). Cello Concerto (Lalo). Noël (Cortele). Noël (Bachelet). Excerpts, "Parsifal" (Wagner).

5.15—Sacred Music, Reading, and Address from St. Paul's Church. Rupp (Organ). Gillig (Songs). Grégoire (Violin). Offertory on Carols (Guilmant). Reading. Aria, "The Messiah" (Handel). Adagio from the Violin Sonata in E (Handel). Address. Organ: Carol. Carol (Fauré). Violin: Pastorale (Rheinberger). Prayer. Finale from the Second Symphony (Widor).

6.30—Medical Talk (in German). 6.45—Dance Records. 7.30—Time; News.

7.40—Sports Notes. 7.55—News and Announcements (in German).

8.15—Orchestra. Grégoire (Violin) and Pogoda (Pfte.). Overture, "Oberon" (Weber). Selection, "Tannhäuser" (Wagner). Dance of the Hours (Ponchielli). Songs. Nutcracker Suite (Tchaikovsky). Violin and Orchestra: Meditation, "Thais" (Massenet). Songs. Pfte. Music. Danse Macabre (Saint-Saëns). Second Hungarian Rhapsody (Liszt).

10.45—See Paris (PTT).

STUTT GART (Germany)

574 kc/s (522.6 m.); 100 kW.

5.0 a.m.—See Hamburg. 7.0—Time; Weather; Gym. 7.25—German Carols.

7.45—Roman Catholic Service. 8.15—Records. 9.15—"German Christmas"—Sequence. 10.0—Talk and Readings.

10.30—See Leipzig.

11.0—See Berlin. In the interval at 12.0 noon: Topical Programme. 12.50 p.m.—Announcements.

1.0—See Frankfurt. 1.45—For Artisans.

2.0—Chamber Music.

3.0—See Cologne. 5.0—A Visit to the Oldest German Champagne Cellar.

5.30—Variety. The Lang Trio, Franz Baumann, and Others. 6.45—Talk: Gym and Sport.

7.0—Two Folk Plays: (a) "Christmas in the Rocky Mountains" (Schwerla), (b) "Im Wasgenwald im Sappenkopf" (Althaus).

8.0—Richard Trunk conducts his own Music. Male Voice Choir and Station Orchestra. Maria Trunk (Soprano), and Bruno Müller (Baritone). 9.0—Time; News.

9.30—See Munich.

11.0—1.0 a.m. (Monday)—Schubert Concert. Wendling Quartet, Emma Mayer (Contralto), Müller (Baritone), Hans Münch-Holland (Cello), and Haagen (Pfte.). Quintet in C. Songs. String Quartet in A minor.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW.

Transmits at intervals from 11.0 a.m. 12.5 p.m.—Light Music. 12.20—News.

12.35—Operetta Songs.

12.50—Markets; Amusement Guide. 1.0—Band. 1.25—Songs. 1.50—Film Music. 1.55—News; Exchange. 2.0—2.15—Protestant Service. 6.0—Soloists.

6.15—Chansonnettes. 6.30—Operetta Music. 6.45—News. 6.50—Film Music. 7.5—Viennese Orchestra.

7.25—Cinema Organ. 7.30—News.

7.45—Opera Music. 8.15—Humorous Sketches. 8.30—Film Music. 8.50—Hawaiian Guitar Music.

9.0—"Mon Beau Quercy"—a Fantasy.

9.35—Orchestra.

9.45—Concert Version, "Toi c'est moi"—Operetta (Simons).

10.20—Russian Orchestra and Songs.

10.30—News. 10.45—Light Music.

11.0—Chansonnettes. 1.1.20—Marches.

11.30—Argentine Band from "La Casa de Pepe." 11.45—Duets.

12.0 m't—Light Music. 12.15 a.m. (Monday)—News. 12.20—12.30—Orchestra.



Kurt Atterberg, whose music contributes to Stockholm's Concert at 7 p.m.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.).

7.35 a.m.—News. 8.0—Announcements. 8.20—8.40—French Lesson.

9.0—Rural Programme. 10.0—Mass from the Church of the Annunciation, Florence. 11.0—11.15—Bible Reading.

11.30—Records. 12.0 noon—News.

12.10—1.15 p.m.—See Rome. 3.0—Records; Sports Notes. 3.30—Relay from Asmara.

4.0—See Rome. 6.30—Announcements.

7.0—Music Lesson. 7.25—News; Talk.

7.35—"Al pianoforte"—One-Act Comedy (Giacosa).

8.15—Remy Principe (Violin) and Sandro Fuga (Pfte.). Allegro and Minuet (Mozart). Rondo (Mozart-Principe).

Chaconne (Bach). Adagio (Principe). Canti siciliani (Principe). In the intervals: News in German; Announcements; Talks; Reading. After the Programme: Dance Music. 9.45—News.

9.45—News.

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9.45—News.

Choir. Dr. Tittel (Organ). 10.0—Talk: Christmas in the Peasant's Home. 10.40—Announcements.

10.45—Symphony Concert. Vienna Symphony Orchestra. Conductor: Erwin Stein. Walter Kerschbaumer (Pfte.). Overture, "Iphigenia in Aulis" (Gluck). Pfte. Concerto in C minor (Beethoven). The Jupiter Symphony (Mozart).

11.55—Light Music by the Vienna Symphony Orchestra. Conductor: Holzer. 2.0 p.m.—News. 2.15—Book Review.

2.40—Mozart's String Quartets by the Kamper-Kvarda Quartet. String Quartet in D. String Quartet in B flat.

3.15—Talk: From Jerusalem to Nazareth. 3.40—Talk: The Christmas of the Lonely.

4.5—Felix Weingartner in a Programme of his own Music. 4.30—"Hansel and Gretel"—Opera (Humperdinck), on Records.

5.30—Light Music. Vienna Symphony Orchestra and Soloists. 6.0—News.

6.10—Light Music (cont'd.). 7.30—Talk: The Christmas Radio Programmes.

7.40—Dezemberlied (Grillparzer). 7.45—Topical Talk.

8.0—The Seventeenth Century Gmünd Christmas Play in Four Acts and a Prelude (arr. Dr. Georg Graber). Set to Old Melodies by Andreas Klockner and Sepp Moser. 9.0—News.

9.20—Songs and Arias by Anne Roselle (Soprano). Gretchen am Spinnrade (Schubert). Wenn du nur zuweilen lächelst (Brahms). Nachtigall (Brahms). Extasy (Kienzl). Auf ein altes Bild (Wolf). Lebe wohl (Wolf). Nimmersatte Liebe (Wolf). Liebste du um Schönheit (Mahler). Hat dich die Liebe berührt (Marx). Waldseligkeit (Marx). Vöglein Schermet (Zador). Aria, "The Magic Flute" (Mozart). Leonora's Aria, "Fidelio" (Beethoven). 10.0—Announcements.

10.15—12.0 m't—Fritz Brunner Jazz Band. Ernst Schön (Songs).

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10.15—12.0 m't—Fritz Brunner Jazz Band. Ernst Schön (Songs).

December 23 MONDAY

3 p.m.
 BERLIN, Stories, Talk. **BRESLAU**, Carols, Reading, Talks.
 COLOGNE, Talk, Violins, Pfte. 3.40—Experiences of a Punch and Judy Showman.
 DEUTSCHLANDSENDER, Orchestra. 3.50—Sketch.
 FRANKFURT, Songs, Pfte.
 HAMBURG, See Deutschlandsender.
 KÖNIGSBERG, Orchestra, Talk.
 LEIPZIG, Cycle: Carols, Books, Exchange.
 MUNICH, Markets, Pfte., Books.
 STUTTGART, Orchestra, Sketch.

4 p.m.
 BERLIN, See Stuttgart. **BEROMÜNSTER**, Czech Carols, Buglehorn. 4.35—Overture and Bach-chorale from "Tannhäuser."
 BRATISLAVA. 4.15—Harp, Records, Readings. **BRESLAU**, Orchestra. **BRUSSELS (1)**. 4.55—Announcements. **BRUSSELS (2)** 4.55—Announcements. **BUCHAREST**, Radio Orchestra.
 COLOGNE, See Stuttgart.
 DEUTSCHLANDSENDER, Orchestra.

EIFEL TOWER, Concert from Rennes, French Lesson.
 FRANKFURT, See Stuttgart.
 HAMBURG, See Deutschlandsender. 4.30—"Christmas in Hamburg"—Sequence. **HILVERSUM (1,875 m.)**, Bible Reading, For Children. **HILVERSUM (301.5 m.)**, Records, For Children.
 KALUNDBORG, Reading, Exchange. Markets, Poem, **KÖNIGSBERG**, See Stuttgart.
 LEIPZIG, See Stuttgart. **LILLE**, Concert from Rennes.
 MOSCOW, 4.30—Music by Soviet Composers for Voice and Quartet.
 MUNICH, Orchestra and Soloists.
 OSLO, Radio Ensemble, Conductor: Holst.
 PARIS (PTT), Television, Organ Recital. **POSTE PARISIEN**, 4.35—Exchange.
 RADIO-NORMANDIE, Tea-Time Hour, Children's Corner. **RADIO-PARIS**, See Strasbourg.
 SOTTENS, See Beromünster. **STOCKHOLM**, Weather, Folk Programme, Records. **STRASBOURG**, French Music. **STUTTGART**, Fairy Tale Music.
 WARSAW, Talk, Poems. 4.20—Song Recital, Talk.

5 p.m.
 ATHLONE, 5.30—For Children.
 BERLIN, See Stuttgart. 5.30—Sequence, Music. **BEROMÜNSTER**, Children visit the Basilic Radio Station, Report. **BRATISLAVA**, Readings, Slovak Lesson, Records. **BRESLAU**, Orchestra, Radio Picture, Announcements. **BRUSSELS (1)**, Tea-Time Concert. **BRUSSELS (2)**, Records, For Children. **BUCHAREST**, Talk, 5.15—Radio Orchestra.
 COLOGNE, See Stuttgart, Reading, Weather, Exchange, Sports.
 DEUTSCHLANDSENDER, Sequence, Play.
 EIFFEL TOWER, Exchange.
 FRANKFURT, See Stuttgart, 5.30—For Hitler Youth.
 HAMBURG, Talk, Winter Solstice Festival—Report, Exchange, Weather. **HILVERSUM (1,875 m.)**, For Children, Records. **HILVERSUM (301.5 m.)**, For Children, Orchestra, Music Talk.
 KALUNDBORG, Poem. 5.15—Reading, Weather, Wireless Notes. **KÖNIGSBERG**, Reading, Markets, For Children, Talk.
 LEIPZIG, See Stuttgart. 5.30—Talk, Call of Youth. **LILLE**, Exchange.
 MOSCOW, Soviet Music (contd.). 5.20—Orchestra, Choir and Soloists.
 MUNICH, Orchestra, Soloists, For Hitler Youth Leaders, Weather, Markets.
 OSLO, For Women. 5.20—Swedish and Finnish Music, Announcements.
 PARIS (PTT), Poullet Concert Orchestra, For Gardeners, Report, Talks.
 RADIO-NORMANDIE, Time, Light Music, Orchestra. **RADIO-PARIS**, Weekly Review, Flemish Poems, Film Review, Poullet Concert Orchestra.
 SOTTENS, For Women, Esperanto Lesson, Bridge, Talk. **STOCKHOLM**, Records, Report. **STRASBOURG**, Exchange, Classical Records. **STUTTGART**, Orchestra, Sequence.

TURIN, For Farmers, Announcements, Talk.
 WARSAW, Records, Christmas Relay, Art Notes, News, Letters.

6 p.m.
 ATHLONE, For Children, Records, Mirror of Gaeldom, News.
 BERLIN, Music, Evening Echoes. **BEROMÜNSTER**, Weather, Tourist Notes, Wireless Notes, Records, Talk. **BRESLAU**, See Leipzig. Dialect Programme.
 BRUSSELS (1), Song Recital, Talk. 6.30—Louis Delune Recital by the Composer and others.
 BRUSSELS (2), For Children, Orchestra, Accordion and Flute.
 BUCHAREST, News. 6.15—Christmas Madrigals. **BUDAPEST (1)**, Liszt Pfte. Music, Talk.
 COLOGNE, Quintet, Snapshots.
 DEUTSCHLANDSENDER, Records. Topical.
 EIFFEL TOWER, 6.30—Talk, Theatre Talk.
 FRANKFURT, See Deutschlandsender. 6.45—News.
 HAMBURG, See Deutschlandsender. 6.45—Talk. **HILVERSUM (1,875 m.)**, Records, Announcements. **HILVERSUM (301.5 m.)**, Music Talk (contd.), Talk.
 KALUNDBORG, News, Talk.
 KÖNIGSBERG, Announcements, Mysteries (Biber), Report.

COLOGNE, News, Review, Pfte. **DEUTSCHLANDSENDER**, News. 7.10—See Hamburg.
EIFEL TOWER, News, Weather, Racing, Review, Records.
FRANKFURT, 7.10—See Hamburg.
HAMBURG, News. 7.10—"The Christmas Fairy"—Opera (Pfitzner). **HILVERSUM (1,875 m.)**, Announcements, Letters, News. 7.45—Christmas Oratorio (Bach). **HILVERSUM (301.5 m.)**, Flute and Pfte., Talk, News, 7.50—Rotterdam Philharmonic, Choir, Soloists.
KALUNDBORG, Chamber Music, Talk: The League of Nations. **KÖNIGSBERG**, News, Orchestra.
LEIPZIG, News. 7.10—German Folk Songs, for Soprano, Baritone and Violin. **LILLE**, 7.30—Song Records, Talk.
MONTE CENERI, Play in Dialect.
MUNICH, News. 7.10—Christmas Music, Talk.
OSLO, Saxophone, Quartet, Book Review, 7.40—Pfte. Solos.
PARIS (PTT), 7.20—Radio Press Review, Weather. 7.38—Orchestra (contd.). **POSTE PARISIEN**, Sports Talk, News, Gardening Talk, Amusements, Records,

LEIPZIG, EmDe Orchestra, Review. **LILLE**, See Radio-Paris, News.
MONTE CENERI, March Records, Parliamentary Review, Records, News. **MOSCOW**, Orchestra (contd.). **MUNICH**, Motto, Reports. **OSLO**, News, Talk.
PARIS (PTT), Orchestra, News, Topical. **POSTE PARISIEN**, 6.15—Exchange, Talk, Russian Folk Song Records, Talk, Record, Talk.
RADIO-NORMANDIE, For Children, News. **RADIO-PARIS**, Economics. 6.30—Orchestra (contd.). **ROME**, Announcements, Tourist Notes (French). 6.20—Talk in English. 6.43—News (Fr.).
SOTTENS, Talk, Records, Music Notes and Review, Records, Wireless Review, News. **STOCKHOLM**, News. 6.30—Naval Band. **STRASBOURG**, Literary Review, Talk. 6.30—Soprano, 'Cello and Pfte. Music. **STUTTGART**, Orchestra, Sketch.
TOULOUSE, Exchange, Viennese Orchestra, Songs, Orchestra, News, Arias. **TURIN**, News in Foreign Languages.
WARSAW, Letters, Announcements, Holiday Hints, Sports Notes, Topical Talk.

ATHLONE, Station Orchestra, Talk with Illustrations: Carol Singers.
 BERLIN, News Sequence. **BEROMÜNSTER**, "La Bohème"—Opera, on Records. **BRATISLAVA**, 7.30—Talk. 7.45—Marsik Concert. **BRESLAU**, Announcements, Sequence. **BRUSSELS (1)**, Recital (contd.). Review of Reviues. **BRUSSELS (2)**, Talk, Records, Theatre Notes. **BUCHAREST**, Talk, Songs, Book Review, 7.55—Pfte. Quintet (Pfitzner). **BUDAPEST (1)**, Opera Orchestra.

COLOGNE, News, Review, Pfte. **DEUTSCHLANDSENDER**, News. 7.10—See Hamburg.
EIFEL TOWER, News, Weather, Racing, Review, Records.
FRANKFURT, 7.10—See Hamburg.
HAMBURG, News. 7.10—"The Christmas Fairy"—Opera (Pfitzner). **HILVERSUM (1,875 m.)**, Announcements, Letters, News. 7.45—Christmas Oratorio (Bach). **HILVERSUM (301.5 m.)**, Flute and Pfte., Talk, News, 7.50—Rotterdam Philharmonic, Choir, Soloists.
KALUNDBORG, Chamber Music, Talk: The League of Nations. **KÖNIGSBERG**, News, Orchestra.
LEIPZIG, News. 7.10—German Folk Songs, for Soprano, Baritone and Violin. **LILLE**, 7.30—Song Records, Talk.
MONTE CENERI, Play in Dialect.
MUNICH, News. 7.10—Christmas Music, Talk.
OSLO, Saxophone, Quartet, Book Review, 7.40—Pfte. Solos.
PARIS (PTT), 7.20—Radio Press Review, Weather. 7.38—Orchestra (contd.). **POSTE PARISIEN**, Sports Talk, News, Gardening Talk, Amusements, Records,

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

P.M.
 7.45 Hilversum (1,875 m.); Bach's Christmas Oratorio.
 8.0 Regional: Carols from other Countries.
 8.0 Vienna: "Christnacht" (Haas).
 8.10 Strasbourg: Organ (Christmas music).
SYMPHONY CONCERTS
 7.25 Rome: Haydn, Petrassi.
 7.50 Hilversum (301.5 m.): Rotterdam Phil.
 9.0 Warsaw: Station orchestra, 'cello.
LIGHT CONCERTS
 12.15 Radio-Paris: Orchestra, songs.
 4.0 Strasbourg, Radio-Paris: French music.
 4.0 Stuttgart, etc.: Fairy-tale music.
 6.30 Stockholm: Naval band.
 7.0 Athlone: Light orchestral.
 7.0 Warsaw: Orchestra, light music.
 7.5 Budapest 1: Opera House Orchestra.
 7.10 Leipzig: German folk-songs.
 7.55 Sottens: Swiss choral music.
 8.0 Brussels 2: Radio orchestra.
 8.30 Eiffel Tower: Charpentier programme.
 8.30 Sottens: Military band.
 9.0 Stockholm: Light programme.
 10.5 Munich: Light music.
 11.15 Radio-Paris: Light orchestral.
OPERAS
 7.0 Beromünster: "La Bohème" (records).

7.10 Hamburg: "Christelflein."
OPERETTAS
 9.0 Strasbourg: Two new operettas.
CHAMBER MUSIC
 6.30 Strasbourg: 'Cello, pfte., song.
 7.0 Kalundborg: Quartets (Haydn, Bentzon).
 7.10 Munich: "Eve of Christmas" music.
 7.55 Bucharest: Quintet (Pfitzner).
 8.45 Radio - Paris: Wind quintets, etc.
 9.15 Oslo: Trio (Beethoven).
 10.0 National: Quartets, songs.
RECITALS
 6.0 Budapest 1: Margit Lázlóffy (pfte.).
 6.30 Brussels 1: Delune programme.
 7.0 Sottens: Bach organ music.
 7.40 Oslo: Pianoforte.
 8.0 Radio-Paris: Songs.
 8.0 Stockholm: Organ, song.
 9.20 Munich: Christmas Carols.
PLAYS
 7.30 Prague: "Christmas Carol."
 8.30 Paris (PTT): "Les pattes de mouche" (Sardou).
 9.15 Poste Parisien: Sketch, Messenger music.
TALKS
 9.40 Budapest 1: "The Crisis in Central Europe and France" (in French).
 10.5 Kalundborg: Christmas Greetings.
DANCE MUSIC
 9.0 (app.), Rome.; 10.5, Warsaw; 10.10, Regional; 10.45, Radio-Paris, Vienna; 11.15, National; 12.0, Radio-Normandie.

LEIPZIG, EmDe Orchestra, Review. **LILLE**, See Radio-Paris, News.
MONTE CENERI, March Records, Parliamentary Review, Records, News. **MOSCOW**, Orchestra (contd.). **MUNICH**, Motto, Reports. **OSLO**, News, Talk.
PARIS (PTT), Orchestra, News, Topical. **POSTE PARISIEN**, 6.15—Exchange, Talk, Russian Folk Song Records, Talk, Record, Talk.
RADIO-NORMANDIE, For Children, News. **RADIO-PARIS**, Economics. 6.30—Orchestra (contd.). **ROME**, Announcements, Tourist Notes (French). 6.20—Talk in English. 6.43—News (Fr.).
SOTTENS, Talk, Records, Music Notes and Review, Records, Wireless Review, News. **STOCKHOLM**, News. 6.30—Naval Band. **STRASBOURG**, Literary Review, Talk. 6.30—Soprano, 'Cello and Pfte. Music. **STUTTGART**, Orchestra, Sketch.
TOULOUSE, Exchange, Viennese Orchestra, Songs, Orchestra, News, Arias. **TURIN**, News in Foreign Languages.
WARSAW, Letters, Announcements, Holiday Hints, Sports Notes, Topical Talk.

ATHLONE, Station Orchestra, Talk with Illustrations: Carol Singers.
 BERLIN, News Sequence. **BEROMÜNSTER**, "La Bohème"—Opera, on Records. **BRATISLAVA**, 7.30—Talk. 7.45—Marsik Concert. **BRESLAU**, Announcements, Sequence. **BRUSSELS (1)**, Recital (contd.). Review of Reviues. **BRUSSELS (2)**, Talk, Records, Theatre Notes. **BUCHAREST**, Talk, Songs, Book Review, 7.55—Pfte. Quintet (Pfitzner). **BUDAPEST (1)**, Opera Orchestra.

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

ATHLONE, Talk (contd.). 8.15—Irish Play, Vocal Solos.
 BERLIN, Sequence (contd.). **BEROMÜNSTER**, "La Bohème" (contd.), News in the interval. 8.50—Zürich Pictures. **BRATISLAVA**, Concert (contd.). 8.25—Sketch. **BRESLAU**, Sequence (contd.). **BRUSSELS (1)**, Records. 8.30—Horace Bi-Millenary Relay. **BRUSSELS (2)**, Radio Orchestra, Talk, and Sketch. **BUCHAREST**, Quintet (contd.), News, Sports Notes. 8.45—Two Pftes. **BUDAPEST**, Orchestra, News, Jazz Band.
 COLOGNE, Farce in Dialect.
 DEUTSCHLANDSENDER, See Hamburg.
 EIFFEL TOWER, Review. 8.30—Charpentier Concert. Conductor: The Composer.
 FRANKFURT, See Hamburg.
 HAMBURG, Opera (contd.). **HILVERSUM (1,875 m.)**, Oratorio (contd.). In the interval: Recita-

10 p.m.

ATHLONE, Variety Programme, News, Light Music.
 BERLIN, Violin, Songs, Pfte. **BRESLAU**, Music. **BRUSSELS (1)**, News. 10.10—Dance Music from the Cabaret Gaiety Dancing. **BRUSSELS (2)**, News. 10.10—Request Records. **BUDAPEST (1)**, Records.
 COLOGNE, See Breslau.
 DEUTSCHLANDSENDER, See Breslau.
 FRANKFURT, See Breslau.
 HAMBURG, Stettin Concert Orchestra. **HILVERSUM (1,875 m.)**, News, Records. **HILVERSUM (301.5 m.)**, Light Music.
 KALUNDBORG, Report (contd.). 10.5—Christmas Greetings to the Fairies. **KÖNIGSBERG**, See Breslau.
 LEIPZIG, See Breslau. **LILLE**, Orchestra, News.
 MOSCOW, Talks in Hungarian.
 MUNICH, 10.5—Renate Timm and Orchestra, Light Music.
 PARIS (PTT), Play (contd.). News. **POSTE PARISIEN**, 10.5—Chamber Music. 10.30—Records of Light Music.
 RADIO - NORMANDIE, Variety. **RADIO-PARIS**, Concert (contd.). 10.45—Dance Music.
 STRASBOURG, Operettas (contd.). **STUTTGART**, Carols. 10.15—Music from Breslau.
 TOULOUSE, Music Hall, Orchestra, News, Argentine Orchestra.
 VIENNA, Books, Announcements, Orchestra, Jazz Band.
 WARSAW, Weather, Dance Records.

11 p.m.

BUDAPEST (1), 11.5—Report. **FRANKFURT**, Records.
HILVERSUM (1,875 m.), Records. **HILVERSUM (301.5 m.)**, Light Music.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Dance Music. 11.15—Light Music by the Mangeret Orchestra.
STUTTGART, See Frankfurt.
TOULOUSE, Opera and Operetta Music, Marches, Operetta Music, Orchestra.
 VIENNA, Jazz Band.
 WARSAW, Weather, Dance Records.

12 midnight

FRANKFURT, 12.0—Records. **RADIO-NORMANDIE**, Dance Music. In the interval at 12.30: Time. **RADIO-PARIS**, Light Music (contd.).
STUTTGART, See Frankfurt.
TOULOUSE, Orchestra, News, Orchestra.

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MONDAY (December 23)

NATIONAL

Time Signals: Big Ben, 10.15 a.m., 5.15 p.m., 6.30 p.m., 12 midnight. Greenwich: 10.30 a.m., 2.0 p.m., 6.0 p.m., 10.0 p.m., 11.30 p.m. 10.15 a.m. (Droitwich)—Service. 10.30 (Droitwich)—Weather Forecast. 10.45—Parliament as Your Member Sees It.—Capt. A. Cunningham Reid, M.P. 11.0—Records. 11.45—Scottish Studio Orchestra. 12.45 p.m.—Miscellaneous Records. 1.30—G. Thalben-Ball (Organ). 2.0—The Forty-Second Banquet to Little Londoners, relayed from The Guildhall. 2.30—Records. 3.0—Jack Wilson and his Versatile Five, with Jack Ford (Tenor). 4.0—Bessie Rawlins (Violin), Reginald Paul (Piano/forte). 4.30—Glasgow Corporation Gas Department Band. 5.15—BBC Dance Orchestra. 6.0—"The First News." 6.25—Interlude. 6.30—Foundations of Music. Braams Pianoforte Trios, The Grinke Trio: Trio in B (concl. on Tues.). 6.50—Men Talking—13; Maurice Healy. 7.10—The Cinema—Alistair Cooke. 7.30—Fred Hartley and his Novelty Quintet, with Brian Lawrence; Sylvia (Speaks), Sweet Nothings (Rattenberg), Love is Everywhere (Parr-Davies), Drink to me only (trad.), Molly Brannigan (Stanford), If you were the only Girl in the World (Ayer), Waltz, Vanité (Wiedosft), Souvenirs of Song (9). 8.0—"The Stranger at St. Hilary"—A Vision of Christmas by Bernard Walke, produced by the Author. 9.0—BBC Orchestra (Section C), conducted by Clarence Raybould; Stanley Riley (Baritone): March, Pomp and Circumstance (Elgar), The Londonderry Air, Mock Morris (Grainger), Fantasy on Christmas Carols (Vaughan Williams). 9.30—"The Second News." 10.0—Catterall String Quartet; Tatiana Makushina (Soprano), Quartet (Emperor) (Haydn); Songs: Berceuse (Mussorgsky), The Wood of Flowers (Collingwood), Pannyré aux Talons d'or (Poldowski), Le Mirage (Aubert), Coplas de Curro Dulce (Obadors). Quartet (Voces Intimas) (Sibelius). 11.15-12.0 (Droitwich)—Dance Music.

REGIONAL

Time Signals: Big Ben, 10.15 a.m., 5.15 p.m., 6.30 p.m., 12 midnight. Greenwich, 10.30 a.m., 2.0 p.m., 6.0 p.m., 10.0 p.m., 11.30 p.m. 10.15-10.45 a.m. (except Midland)—Droitwich. 10.45—Cinema Organ. 11.15—Haydn Heard and his Band. 12.30 p.m.—BBC Welsh Orchestra. 1.30—Records. 2.0—Arthur Salisbury. 3.0—BBC N. Ireland Orchestra. 4.0—Hungaria Gipsy Band. 4.45 (ex. Midland)—Dorothy Jennings (Soprano), Burdon Harper (Baritone). 4.45 (Midland)—Recital. 5.15—Children's Hour. 6.0—"The First News." 6.30 (Regional, Midland)—Midland Orchestra; Jack Wilson (Pfte.). 6.30 (Western)—Microphone Revue. 6.30 (Northern)—Cinema Organ. 6.30 (N. Ireland)—BBC N. Ireland Orchestra; Frederick Stone (Pfte.). 6.30 (Scottish)—Band; Jean Craig (Soprano). 7.0 (Northern)—"London Log." 7.10 (Western)—The Round Table Singers. Madrigals, Part Songs. 7.15 (ex. Midland, Western)—"Aladdin"—A Potted Pantomime, presented by Frank A. Terry, music arranged by Frank Parker. 7.15 (Midland)—Cinema Organ. 7.40 (Western)—Welsh Story Reading. 7.45 (Midland)—"Carol Contrasts" Collected and arranged by E. M. Leather and R. Vaughan Williams; Joe Guttridge's Carol Party. 8.0 (ex. Midland)—Carols from Other Countries; BBC Singers conducted by Sir Richard Runciman Terry. 8.30—"Tones of the Year." 9.30 (Regional, Midland)—Vario Trio. 9.30 (Western)—Plymouth Guildhall Organ (Harry Moreton). 9.30 (Northern)—BBC Northern Orchestra. 9.30 (N. Ireland)—"The Doctor's Bottle" by Thomas Kelly. 9.30 (Scottish)—Maud Kerr (Soprano). 9.50 (N. Ireland)—"Evidence"—Story Reading by Richard Rowley. 10.0—News Summary. 10.10-12.0 (Scottish from 10.40; Midland till 11.15)—Dance Music. Casani Club Orchestra. 10.10 (Scottish)—The Reel Players.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland) 565 kc/s (531 m.); 60 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.). 1.30-2.30 p.m.—Records. 5.30—For Children. 6.15—Records. 6.30—Mirror of Gaelic. 6.45—News. 7.0—Station Orchestra. Selection, "La Poupée" (Audran). Three Dances (Wood). Cinderella Suite (Eric Coates). Pastoral Suite (Ansell). 7.45—Talk with Illustrations by the Rev. Fr. Burke; Carol Singers. 8.15—Irish Play presented by P. O'Sionait. 8.45—Vocal. 9.0—Talk: Christmas in the Mission Fields. 9.30—Variety. 10.30-11.0—News; Music.

BERLIN (Germany) 841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 11.20—See Hamburg. 1.0 p.m.—News. 1.15—Orchestra. 2.0—Markets. 3.0—Fairly Story with Music. 3.30—Stories. 3.45—Talk: Ski-ing. 4.0—See Stuttgart. 5.30—"Our Mothers"—Sequence (Baumann). 5.50—Christmas Music. Berlin Solo Ensemble. 6.40—Evening Echoes. 7.0—News; Topical. 7.10—"The First Railway"—Humorous Sequence (Seitz) (Records). 9.0—News. 9.25—"The Crib"—Sequence (Paesler). 10.0-11.0—Durigo (Violin), Gunderloh (Soprano), Geess (Baritone), and Thöne and Liebrecht (Pfte. Duets). Sonata in F (Handel). Songs (Franz). Variations in G (Mozart). Songs. Fantasia in F minor (Mozart). Sonata in G minor (Schubert).

BEROMÜNSTER (Switzerland) 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 11.0 a.m. (from Basle)—Records. 11.29—News. 11.40—Records. 11.55—Dramatic Programme. 12.25 p.m.—Weather; Exchange. 3.0 (from Basle)—Records. 3.30—Christmas Concert by the Rheinfeind Children's Choir. Conductor: Kammerer. 4.0—Czech Carols (Records). 4.5—Hans Hubler (Buglehorn). 4.35—Overture and Bacchanal, "Tannhäuser" (Wagner), conducted by Toscanini (Records). 5.0—Children visit Basle Radio Station. 5.30—"The Christmas Tree Market"—Report. 6.0—Weather; Tourist Notes. 6.5—For Wireless Enthusiasts. 6.15—Records. 6.30—Health Talk. 7.0 (from Berne)—"La Bohème"—Opera (Puccini) on Records. In the interval at 8.10 (approx.): News. 8.50 (from Berne)—A Zürich Picture Book. 9.0—Ballet Music (Mozart) by the Radio Orchestra. Conductor: Reinschagen (on Records). 9.15—Weather.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.0 a.m. 11.0 a.m.—Band. 1.0 p.m.—News. 2.10—Book Review. 2.30—Reading. 2.50—Carols. 3.10—Reading. 3.30—Talk. 3.50—Report: Presents for the Poor. 4.0—Orchestra and Songs. 5.30—"The German Worker" (Woitas). 5.50—Announcements. 6.0—See Leipzig. 6.30—Dialect Programme. 7.0—News. 7.10—"Blue Monday"—Humorous Sequence with Music. 9.0—News. 9.30-11.0—Serenade.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37 a.m.—Records. 6.40—Weather; Gym. 7.0—Time; Records. 7.25—News. 7.40—Gym. 8.0—Time; Record. 8.5—Announcements. 8.15—Records. 8.25—News. 8.40-9.0—Records. 11.55—Announcements. 12.0 noon—Records. 12.30 p.m.—Orchestra. Conductor: Walpot. Jane Smile (Musical Monologues). 1.0—News. 1.10—Orchestra (contd.). 1.30—Records. 2.0-2.45—For Schools: (a) Record; (b) Talk: Christmas in England, (c) Dutch Lesson. 4.55—Announcements. 5.0—Tea-Time Concert by the Constantin Orchestra. Conductor: Maetens. 6.0—Suzanne Bouchez (Songs). 6.15—Talk: Belgian Law. 6.30—Louis Delune Recital by the Composer (Pfte.), Marthe Bailloux (Songs) and Jeanne Fromon-Delune (Cello). Poème for Cello and Pfte. Songs: (a) La délaissée, (b) La rebelle, (c) Lola, (d) Air à danser. Pfte. Sonatina, Les carillons. Song

Cycle, Le collier des offrandes. 'Cello: Chaconne. Songs: (a) Prelude to La Chanson d'Ève, (b) Les chimères, (c) Les heures claires. Les cygnes for Songs, 'Cello and Pfte. 7.30—Review of Revues. 8.0—Records. 8.30—Horace Bi-Millenary Programme. Introductory Talk by M. Herrmann. Old Settings of Horace Poems by the University Choir. Conductor: Ledent. Reading. Choir. 9.10—Wind Instrument Society Concert. 10.0—News. 10.10-11.0—Dance Music. Andriani Gerrebos and his Boys, from the Cabaret Gaity Dancing.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.37-9.0 a.m.—Records, Gym; News. 11.30—For Schools. 12.0 noon—Records. 12.31 p.m.—Radio Orchestra. Conductor: Gason. In the interval at 1.0—News. 1.30—Records. 2.0—Shipping. 4.55—Announcements. 5.0—Records. 5.30—For Children. 6.15—Orchestra. Conductor: Walpot. Segers (Accordion), Gilman (Flute), Marche de l'industrie (Van Oost), Murrures de bal (Grieg), Sérénade for Accordion (Voss). In Capri (Sudesti), Clochettes d'argent, for Xylophone (Ramthor). Record: Rhapsody in Blue (Gershwin). Selection, "Cocoricó" (Ganne). Echoes des bois, for Flute (Damare), Suite (zigane mauresque (Anduaya). 7.0—Talk: The Knocke Education Congress. 7.15—Records. 7.30—Theatre Notes. 8.0—Radio Orchestra. Conductor: Doulier. L'arrivé des masques (Hirschman), A Musical Snuff-box (Laidov), Le rêve de Colombine (Popy), Sifflez Pierrette (Popy), Sérénade de Pierrot (Gillet), Suite, At the Circus (Armandola). In the interval: Sketch. 8.45—Talk. 9.0—Radio Orchestra. Conductor: Doulier. Sortie militaire (Faulx), Selection, "Rose Marie" (Friml), Selection, "Hallelujah" (Youmans), Concerto for Pfte. and Jazz Band (Gebhardt), Selection, "No, no, Nanette" (Youmans), Paraphrase on "La Paloma" (Yradier-Weininger), Le tour du monde en Zeppelin (Mannecke). 10.0—News. 10.10-11.0—Request Records.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. 10.30 a.m.—Time; Water Level; Amusement Guide. 10.35—Records. 11.15—Exchange; Sports Notes. 11.30—Records. 12.15 p.m.—Time; Weather; News. 12.30—Records. 1.0—News. 4.0—Radio Orchestra. 5.0—Talk. 5.15—Radio Orchestra. 6.0—News. 6.15—Christmas Madrigals. Octet. Conductor: Schmidt. 7.0—Talk. 7.20—Songs by the Olténic Choral Society. 7.45—Book Review. 7.55—Quintet (Pfitzner) by Rogalski (Pfte.) and a Quartet. 8.30—Time; Weather; News; Sports Notes. 8.45—Villnon and Hackmayer (Pftes.). 9.10—Concert from a Restaurant. 9.45—News in French, German and Romanian.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m. 6.0 p.m.—Liszt Music. Margit Laszloffy (Pfte.). 6.45—Talk: Petöfi. 7.55—Opera Orchestra. Conductor: Fridl. 8.30—News. 8.50—Pärtos Jazz Band. 9.40—Talk in French: The Crisis in Central Europe and France. 10.0—Records. 11.5—Report.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 11.20-1.0 p.m.—See Hamburg. 1.0—News. 1.15—Schrammel Quartet. 1.45—Exchange; Markets. 2.0—Christmas Songs. 2.30—Markets. 3.0—Talk: A Ski-ing Christmas in West Germany. 3.10—Isabel Schmitz and Margarete Klatt (Violins) and Ilse Mühlen (Pfte.). 3.40—Experiences of a Punch and Judy Showman. 4.0—See Stuttgart. 5.30—Reading. 5.50—Weather; Exchange; Sports. 6.0—Station Quintet. 6.50—Snapshots. 7.0—News. 7.10—Weekly Review. 7.45—Hans Haass (Pfte.). Star of Eve (Wagner-Liszt), Mephisto-Walzer (Gounod-Liszt). 8.0—"Dr. Bevvah"—Farce in Dialect (Schneider-Clauss); Music by Fritsche. 9.0—News. 9.20—Hermann Zilcher Songs by Gerda Schüller-Rehm (Soprano) and the Station String Quartet. O Maria, meine Liebe, Maria ging hinaus. Ach wie hübsch und fein. Die Hirten in der Weihnacht. Ein gar alt

fröhlich auch andächtig Weihnachtliedlein. 9.35—Reading: "Frau Regula Amrain und ihr Jüngster" (Gottfried Keller). 10.0-11.0—Concert from Breslau.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 12.45 p.m.—News. 1.0—Variety. 2.0—Announcements. 2.15—"A Thuringian Toy"—Four Christmas Pictures (Möbus). 2.45—"Sternsingen"—A Poem (Hein). 3.0—Barnabas von Gecky Orchestra; Christmas Sketch. 5.0—"The Shortest Day"—Sequence. 5.30—"Midwinter Play" (Scheller). 6.0—Records: Christmas Carols. 6.45—Topical. 7.0—Motto; News. 7.10—See Hamburg. 9.0—News. 9.30—Choir, Orchestra and Soloists. Marienlegenden (Knab). "Es ist ein Schnee gefallen"—Cantata (Donisch). 10.0-11.0—Concert from Breslau.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg, Kaiserslautern, and Trier, 1,195 kc/s (251 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 11.20-1.0 p.m.—See Hamburg. 1.0—News. 1.10—Variety from Deutschlandsender. 2.0—Industrial Reports. 2.15—For Children. 2.45—Songs and Pfte. 4.0—See Stuttgart. 5.30—For Hitler Youth. 6.0—See Deutschlandsender. 6.45—News. 7.10—See Hamburg. 9.0—News. 9.25—"Christmas on the High Road"—Play (Brossmer). 10.0—Concert from Breslau. 11.0-1.0 a.m. (Tuesday)—Records. Part I. Beethoven. Part II, Berlin Cathedral Choir.

HAMBURG (Germany)

904 kc/s (331.9 m.) 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg, and Stettin, 1,330 kc/s (225.6 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—Shipping. 11.10—For Farmers. 11.20—Concert from Hanover Castle. 1.0 p.m.—News. 1.20—Light Music. 2.0—Exchange. 2.40—Shipping. 3.0—See Deutschlandsender. 4.30—"Christmas in Hamburg"—Sequence (Meyer-Marwitz); Music by Otto Tenne. 5.0—Talk. 5.15—Winter Solstice Festival Report. 5.45—Exchange; Markets. 5.55—Weather. 6.0—See Deutschlandsender. 6.45—Talk: The Timber Trade. 7.0—News. 7.10—"The Christmas Fairy"—Opera in Two Acts (Pfitzner). 9.0—News. 9.25—Light Music. 10.0-11.0—Stettin Concert Orchestra. Conductor: Plato. Prelude, "The Sleeping Beauty" (Langer). Selection, "Il Seraglio" (Mozart). Scandinavian Sketches (Amadei), Minuet (Seeger), Flattergeist (Strauss), Christmas Bells (Simon), Coronation March (Kretschmer).

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 2.40 p.m.; 100 kW from 2.40 p.m. N.C.R.V. Programme. 7.40-9.10 a.m.—Bible Reading. Records. 10.10—Religious Programme. 10.40—Reading. 11.10—Records. 11.40—Police Messages; Records. 12.10 p.m.—Zwart (Organ). 1.40—Records. 2.15-2.55—Talk. 3.10—Dressmaking Lesson. 3.40—Bible Reading. 4.40—For Children. 5.40-6.10—Records. 6.40—Announcements; Report; Letter-box. 7.40—News. 7.45—Christmas Oratorio (Bach). Conductor: Booda. In the interval at 8.10—Recitations. 10.0—News. 10.5-11.10—Records.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 2.40 p.m. and 60 kW from 2.40 p.m. V.A.R.A. Programme. 7.40 a.m.—Records. 9.40—V.P.R.O. Religious Programme. 9.55—Recitations. 10.15—Records. 10.40—Recitations. 11.0—Steyn Band. 11.40—Music. 12.25 p.m.—Records. 12.40-1.25—Music; Songs. 1.40—Violin, Pfte. 2.10—For Women. 2.40—Organ. 3.20—Songs. 3.40—Records. 4.10—For Children. 5.10—Orchestra. 5.50—Music Talk with Pfte. Illustrations. 6.40—Talk. 7.0—Flute, Pfte. 7.25—Talk; News. 7.50—Rotterdam Philharmonic, "Stem des Volks" Choir, Flipse (Organ), To v. d. Stuyts (Soprano), Maartje Ollers

(Contra)lto). 8.55—Recitations. 9.10—Steyn (Organ). 9.40—News; Music. Conductor: Walis. 10.40-11.40—Music. Conductor: v. d. Horst.

KALUNDBORG (Denmark)

238 kc/s (1,261 m.); 60 kW. Relayed by Copenhagen, 1,176 kc/s (255.1 m.). 11.0 a.m.—1.0 p.m.—Magnussen String Ensemble from the Hotel d'Angleterre. 2.0—Radio Orchestra. Conductor: Gröndahl. Agnete Zacharias (Songs). In the interval at 2.45: Talk: Christian Life and Church-going. 4.0—Reading for Boys. 4.30—Exchange; Markets. 4.42—Poem. 5.15—Reading (Herman Bang). 5.45—Weather; Wireless Notes. 6.0—News. 6.30—Talk: The Origin of Life. 7.0—Chamber Music. Erling Bloch and Knud Pedersen (Violins), Ludvig Gunder (Viola) and Torben Svendsen (Cello). Quartet in D minor (Haydn). Music for String Quartet (Bentzon). 7.30—Talk by Holger Andersen, President of the Greco-Turkish Commission: The League of Nations and Neutrality. 8.0—Students' Procession—Play (Clausen), with Incidental Music. 8.45—Folk Song Records. 8.55—News. 9.10—Reading (Kjærval). 9.30—French Songs by Ingeborg Schleich David. Le jet d'eau (Debussy), Fantoche (Debussy). Le manoir de Rosamunde (Duparc). Jazz dans la nuit (Roussel). 9.45—The Frederik VIII sails from Copenhagen to Jutland—Report from Langelinie Quay. 10.5—Christmas Greetings to the Faröe Isles.

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.). Transmits at intervals from 5.3 a.m. 11.0 a.m.—Orchestra. 11.20-1.0 p.m.—See Hamburg. 1.0—News. 1.20—For Farmers. 1.40—Review of Periodicals. 2.0—Markets. 2.10—Christmas Tales with Pfte. Accompaniment. 2.40—Danzig Provincial Orchestra. Conductor: Kallipke. 3.40—Talk: The Danzig Dialect. 4.0—See Stuttgart. 5.0—Reading. 5.20—Markets. 5.30—For Children. 5.50—Talk. 6.0—Announcements. 6.10—Three Pieces from "The Mysteries" (Biber) by Pogner (Viola) and Margarete Schuchmann (Harpisichord). The Annunciation. Mary's Visit to Elizabeth. The Birth of Christ. 6.30—Christmas in the Army—Report. 7.0—News. 7.10—Light Music. Station Orchestra. Conductor: Wilcken. 8.0—Station Choir and Soloists. Conductor: Firchow. Stille Nacht, heilige Nacht (Jölli), Pfte.: Weihnachtsmusik (Wetehy) (Hatzfeld). Songs: "Heilige Nacht" (Frodl). Songs (Wolf): (a) Nun wandre, Maria, (b) Sohn der Jungfrau, Contraalto and Pfte. Trio: Heilige Nacht (Frischenschlager). 9.0—News. 9.30-11.0—See Breslau.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). Transmits at intervals from 5.0 a.m.—11.0 a.m.—Band. Conductor: Roth. 12.0 noon—News. 12.15 p.m.—Concert from Hamburg. 1.0—News. Exchange. 1.15—Variety from Deutschlandsender. 1.45—Talk and Readings. 2.5—Musical Play for Children. 2.50—Exchange. 3.0—Cycle, Carols of Many Lands (Viktor Korda) by Elfriede Götzte (Soprano), Rümmler (Flute), Schrepfer (Violin), Winkler (Horn), Olbrich (Trumpet), Smole (Mandoline) and Götzte (Guitar). Conductor: Sammler. 3.30—Book Review. 3.50—Weather; Exchange. 4.0—See Stuttgart. 5.30—Talk: Christmas in the Mountains. 5.50—The Call of Youth. 6.0—Em De Orchestra. 6.55—Review. 7.0—News. 7.10—German Folk Songs. Station Chamber Choir. Käthe Brinkmann (Soprano), Göpelt (Baritone) and Luh (Violin). Conductor: Kretzschmar. 8.0—"The Mad Army"—Historical Sequence (Ball). 9.0—News. 9.30-11.0—See Breslau.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.50 a.m. 6.30 p.m.—News; Reviews. 7.30—Song Records. 7.45—Literary Talk. 8.0—Records.

8.30—Station Orchestra. Conductor: Soret. Jany Gérard and Paul Flament (Songs). 10.30—News.

MONTE CENERI (Switzerland)
1,167 kc/s (257.1 m.); 15 kW.
Transmits at intervals from 11.0 a.m. 6.0 p.m.—Records: Marches. 6.15—Weekly Parliamentary Review. 6.30—Records: Marches. 6.45—News. 7.0—Play in Dialect. In the interval: Recital by the Martinelli-Pizzagalli Duo.

MOSCOW (No. 1) (Russia)
174 kc/s (1,724 m.); 500 kW.
Transmits at intervals from 2.40 a.m. 2.15 p.m.—For Children. 3.0—News. 3.13—Records. 4.30—Music of Soviet Composers by Rodjstvenskaja (Soprano) and the Tancev Quartet. 5.20—L'Usine d'Ijere" (Scherbatychev), by the Station Orchestra, Choir and Soloists. Conductor: Gauck. 8.0—Talk in German: The History of the Russian Revolutionary Movement. 8.55—Chimes. 9.5—Programme in English: (a) Interview with an Oil Institute Student; (b) Talk by Lovett Fort-Whiteman on Anthropology in the U.S.S.R. 10.0—Talks in Hungarian: (a) Peace on Earth (b) Figures of the Past—the Patroness.

MUNICH (Germany)
740 kc/s (405.4 m.); 100 kW.
Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 5.0 a.m. 11.0 a.m.—Light Music. 1.0-1.20 p.m.—News. 2.20—Songs. 2.40—Christmas Sequence. 3.0—Markets. 3.10—Davidsbündlertänze (Schumann) by Adrian Aeschbacher (Pfte.). 3.40—Book Review. 4.0—Orchestra and Soloists. 5.30—For Hitler Youth Leaders. 5.50—Markets. 6.0—Motto. 6.5—Reports: (a) The Nürnberg Christmas Market, (b) The Swabian Goldbeaters, (c) The Nürnberg Gingerbread-Bakery. 7.0—News.

7.10—Eve of Christmas Music. Wutz (Soprano), Drummer (Contralto), Baentsch (Pfte.), Schödel (Organ) and the Stuhlfauth Quartet. Gloria in excelsis (Reger). Song Cycle (Baentsch). Slow Movement (Haydn) Four Carols (Haas). Minuet and Slow Movement (Mozart). Three Carols (Donisch). Weihnachts (Reger).
7.50—"Christmas in Distant Lands"—Talk by Sven Hedin (on Records).
8.5—"Peasant Legend"—Christmas Play (Bauer); Music by Rüdinger. 9.0—News.
9.20—Christmas Carols from Many Lands.
10.5-11.0—Renate Timm and the Nürnberg Light Orchestra. Conductor: Schwarz.

OSLO (Norway)
260 kc/s (1,153.8 m.); 60 kW.
Relayed by Fredrikstad, 776 kc/s (386.6 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.).
Transmits at intervals from 10.30 a.m. 4.0 p.m.—Radio Ensemble. Conductor: Holst. 5.0—For Women. 5.20—Swedish and Finnish Music—Mimi Thorsen (Songs), Rustad (Cello). 5.55—Announcements. 6.15—News. 6.30—Talk. 7.0—Saxophone Quartet. 7.20—Book Review. 7.40—Berit Cleve (Pfte.). 8.10—Foreign Affairs. 8.40—News. 9.0—Topical Talk. 9.15-9.55—Pfte. Trio in B flat (Beethoven).

PARIS (Eiffel Tower) (France)
1,456 kc/s (206 m.); 20 kW.
Transmits at intervals from 8.0 a.m. 1.0 p.m.—Exchange. 1.15—News. 1.30—For Farmers. 1.40—Report of the International Labour Bureau. 1.50—Economics Review. 2.0—Talk. 2.10—Aviation. 2.20—Exchange. 2.30—Variety. 3.45—Exchange. 4.0—Concert from Rennes. 4.30—French Lesson. 5.0-5.10—Exchange. 6.30—Talk by Pierre Benoit: How I wrote "La Dame de l'Ouest." 6.45—Theatre Talk. 7.0—News. 7.20—Reviews. 7.45—Records. 8.0—Reviews.
8.30-10.0—Charpentier Concert. Station Orchestra. Conductor: The Composer (Violin). Felix Raugel Choir and Mme. Hérald-Harlé, Maria Branéze, Lovano and Planel (Songs). Songs: (a) La veillée rouge, (b) La ronde des compagnons. Violin: (a) Le pavé du faubourg, (b) Amour, champagne et fêtes. (c) Derrière les vitres du monde. Songs: (a) Allégorie, (b) Chanson d'automne, (c) Prière, (d) La chanson du chemin. Violin: (a) Noëly, (b) Soliloque, (c) Le marchand de rubans. "Didon"—Cantata.

PARIS (Radio-Paris) (France)
182 kc/s (1,648 m.); 80 kW.
6.45 a.m.—Gym. 7.0—Records. 7.15—News. 7.45—Gym.
8.0—Records.
11.0—Pasdeloup Concert Orchestra. Conductor: Fouresterie. 12.0 noon—For Farmers.
12.15 p.m.—Pasdeloup Concert Orchestra (cont'd.). Soloist: Mlle. Tenneval. In the interval at 12.45: News; Review by Pierre Scize. 2.0—Review of Women's Periodicals. 2.15—Talk: Poets of other Days. 2.30—Records. 3.30—Reading; La Maternelle (Léon Frapié).
3.50—Music Review by Wanda Landowska.
4.0—See Strasbourg. 5.0—Weekly Review. 5.10—Flemish Poems. 5.20—Film Review.
5.30—Poulet Concert Orchestra. Conductor: Tomasi. Maurice Amour (Pfte.). 6.0—Economics. 6.30—Pasdeloup Concert (cont'd.).
7.30—Book Review. 7.45—Talk: Eighteenth-century Correspondence. 7.55—Review by Christophe. 8.0—Marcelle Samson, Alex Jouvin

PARIS (Poste Parisien) (France)
959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Records. 12.25—An Interview. 12.35—For Children. 12.50—Station Orchestra. In the interval at 1.15: Exchange. 2.0, 3.15, 3.45, 4.35 and 6.15—Exchange.
6.20—Talk: Economics. 6.27—Records: Eight Russian Folk Songs (Liadov). Philadelphia Symphony Orchestra. Conductor: Stokowski. 6.42—Topical. 6.49—Record: Polonaise in E flat (Chopin) by Arthur Rubinstein (Pfte.). 6.57—Talk: The French Language. 7.4—News. 7.25—Gardening. 7.32—Amusement. 7.35—"In Brittany"—Records. 7.50—Weekly Review. 7.55—Records. 8.15—Exchange. 8.20—Humorous Programme by Max Régner and Company. 9.15—"Le Messager des Graces"—Sketch in Verse (de Saix) with Messenger Music. 9.45—Talk. 10.5—



The opening of the first German Railway is recalled in Berlin's programme (7.10 p.m.)

Chamber Music. 10.30-11.0—Records: Light Music.

PARIS (PTT) (France)
695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.50 a.m. 12.0 noon—Tourist Notes. 12.15 p.m.—Concert from Toulouse (PTT). 12.45—Variety. 1.0—Exchange. 1.10—Weather; News. 1.25—Exchange. 1.30—Concert from Toulouse (PTT). 2.0—Grammar Lesson. 2.5—Science Talk. 2.10—For Women. 2.20—History. 2.30—Variety from Paris (Radio-Colonial). 4.0—Television. 4.30—Pierre Revel (Organ) from the Schola Cantorum. 5.0—Poulet Concert Orchestra. Conductor: Tomasi. 5.30—For Gardeners. 5.37—Report of the International Labour Bureau. 5.45—Talk on Art. 5.52—Talk. 6.0—Orchestra (cont'd.). Maurice Amour (Pfte.). 6.30—News; Topical. 7.20—Radio Press Review. 7.30—Weather. 7.38—Orchestra (cont'd.). Overture, "Mozart" (Hahn). Ballet, "Hérodiade" (Massenet). Overture, "Les cent vierges" (Lecocq). 8.0—Economics Talk. 8.15—Review of International Politics. 8.23—Marie Simon (Songs). L'hiron-delle est partie (Pourny). Chanson de l'automne (Journet). Noël (Lacôme). 8.30—"Les pattes de mouche"—Three-Act Play (Sardou). 10.30—News.

PARIS (Radio-Paris) (France)
182 kc/s (1,648 m.); 80 kW.
6.45 a.m.—Gym. 7.0—Records. 7.15—News. 7.45—Gym.
8.0—Records.
11.0—Pasdeloup Concert Orchestra. Conductor: Fouresterie. 12.0 noon—For Farmers.
12.15 p.m.—Pasdeloup Concert Orchestra (cont'd.). Soloist: Mlle. Tenneval. In the interval at 12.45: News; Review by Pierre Scize. 2.0—Review of Women's Periodicals. 2.15—Talk: Poets of other Days. 2.30—Records. 3.30—Reading; La Maternelle (Léon Frapié).
3.50—Music Review by Wanda Landowska.
4.0—See Strasbourg. 5.0—Weekly Review. 5.10—Flemish Poems. 5.20—Film Review.
5.30—Poulet Concert Orchestra. Conductor: Tomasi. Maurice Amour (Pfte.). 6.0—Economics. 6.30—Pasdeloup Concert (cont'd.).
7.30—Book Review. 7.45—Talk: Eighteenth-century Correspondence. 7.55—Review by Christophe. 8.0—Marcelle Samson, Alex Jouvin

bal (Sully-Prudhomme), (d) La trace humaine (Sully-Prudhomme), (e) Sonnet (Sully-Prudhomme). Divertissement (Roussel).
10.45—Dance Music by the Mangeret Orchestra.
11.15-12.15 a.m. (Tuesday)—Light Music by the Mangeret Orchestra.

PRAGUE (Czechoslovakia)
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 5.15 a.m. 7.30 p.m.—"A Christmas Carol"—Play after Dickens (Kares). 8.35—Mansard Songs by Zelinka. 9.0—News; Sports; Records. 9.20—Russian Lesson. 9.35—Records. 9.40-10.0—News (German).

RADIO-NORMANDIE (France)
1,113 kc/s (269.5 m.); 15 kW.
7.0 a.m.—Records. News. 8.0—Records. 8.15—Time; Records. 9.0—Time; Marches. 9.15—Music. 9.30—Film Music. 9.45-10.0—Music. 10.0-3.30—Variety. 3.30—Music. 4.0—Tea-Time Hour. 4.45—Children's Corner. 5.0—Time; Music. 5.30—Orchestra. 6.0—For Children. 6.45—News.
7.0-12.0 m't—Variety. 12.0 m't-2.0 a.m. (Tuesday)—Dance Music.

ROME (Italy)
713 kc/s (420.8 m.); 50 kW.
Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.).
Transmits at intervals from 6.45 a.m. 6.0 p.m.—Announcements; Tourist Notes (French). 6.20—Talk in English: Spring in Sicily. 6.43—News (French). 7.5—News.
7.30—Symphony Concert. Conductor: Petrassi. Puliti-Santoliquido (Pfte.). Symphony in D (Haydn). Overture da Concerto (Petrassi). Caprica (Nielsen). Partita (Petrassi). In the interval, Talk: Conductors of To-day.
9.0 (approx.)—Dance Music. 9.30—News.

SOTTENS (Switzerland)
677 kc/s (443.1 m.); 25 kW.
Relayed by Geneva, 401 kc/s (748 m.). 11.29 a.m.—Time; News. 11.40-1.0 p.m.—Programme from Geneva. 11.40—Records. 12.0 noon—Announcements. 12.3-1.0 p.m.—Records. 3.29—Time.
3.30-5.0—See Beromünster.
5.0-6.25—Programme from Geneva. 5.0—For Women. 5.30—Esperanto Lesson. 5.40—Bridge Lesson. 5.55—Talk: Films. 6.10—Records. 6.15—

Music Notes. 6.25—Music Review. 6.35-8.20—Programme from Geneva. 6.35—Records. 6.40—Wireless Review. 6.59—Weather.

7.0—Bach Recital by William Montillet (Organ) from St. Joseph's Church, Geneva. Nun komm' der Heiland, Gott, durch deine Güte. Pastorale in F. Allegretto in C. Andante in C minor. Presto in F minor.
7.20—One-Act Comedy.
7.55—Swiss Music from the "Temple de Genthod." Mixed Choir, Children's Choir and Organ. Christmas Cantata (Binet). Christmas Carols (Marescotti, Gagnebin, Doret and Choisy). Christmas Cantata (Faller). 8.20—News.

8.30 (from Geneva)—Military Band. Conductor: Hoogstoel. Jacob (Turine). Chant crépusculaire (Brusselmans). Excerpts, "Sigurd Jorsalfar" (Grieg). Berceuse, (Massenet). Colonel Bogey (Alford). 9.10—Weather.

STOCKHOLM (Sweden)
704 kc/s (426.1 m.); 55 kW.
Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.).
Transmits at intervals from 6.45 a.m. 12.0 noon—Anderson's String Orchestra, from Malmö. 1.0 p.m.—Talk: Christmas Customs. 1.30-2.0—Records. 4.5—Hälsingland Folk Programme, from Sundsvall. 4.45—Records. 5.40—Report. 6.0—News.
6.30—Naval Band. 7.30—Talk: John Bauer and Humpe.
8.0 (from Göteborg)—Asplöf (Organ) and Benktander (Songs), from the Cathedral. Prelude and Fugue in F minor (Handel). In dulci júbilo (Bach). Two Arias (Bach). Two Legends (Sjögren). Fantasia and Fugue on "Von Himmel hoch" (Asplöf). 8.45—News.
9.0-10.0 (from Göteborg)—Hi Levi Stenhammer and Thulstrup (Songs), Lundberg (Pfte.) and Ludde Gentzel (Reading). Light programme.
11.0-12.0—Records: Quartet in A minor (Beethoven). 6.0—Literary Review. 6.15—Talk: New Caledonia and its Dependencies. 6.30—Georgette Denys (Soprano), Roskam (Cello), Bour (Pfte.). 7.30—News (French, German).
8.10—Christmas Music by Fernand Rich (Organ), from the Church of St. Pierre-le-Vieux. Movement from an Organ Sonata (Bach). Choral (Bach). Carol (Daquin). Carol (Soretti). Où s'en vont ces gais bergers (de Bègue). Parvulus filius dei (Malingreau). Verbum supernum (Erb). Offertory on Christmas Carols (Boëllmann). Rhapsody No. 2 (Saint-Saëns).
9.0—New One-Act Operettas: (a) Vif-argent" (Zozza), (b) "Pas de fumée sans feu" (Chadal).

STRASBOURG (France)
859 kc/s (349.2 m.); 120 kW.
Transmits at intervals from 6.45 a.m. 11.0 p.m.—Orchestra. Conductor: de Villers. Pogoda (Pfte.). 5.0—Exchange.
5.15—Records: Quartet in A minor (Beethoven). 6.0—Literary Review. 6.15—Talk: New Caledonia and its Dependencies. 6.30—Georgette Denys (Soprano), Roskam (Cello), Bour (Pfte.). 7.30—News (French, German).
8.10—Christmas Music by Fernand Rich (Organ), from the Church of St. Pierre-le-Vieux. Movement from an Organ Sonata (Bach). Choral (Bach). Carol (Daquin). Carol (Soretti). Où s'en vont ces gais bergers (de Bègue). Parvulus filius dei (Malingreau). Verbum supernum (Erb). Offertory on Christmas Carols (Boëllmann). Rhapsody No. 2 (Saint-Saëns).
9.0—New One-Act Operettas: (a) Vif-argent" (Zozza), (b) "Pas de fumée sans feu" (Chadal).

STUTTGART (Germany)
574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra.
11.20—See Hamburg. 1.0 p.m.—See Deutschlandsender. 2.0—For Ex-Servicemen.
3.0—Orchestra; Christmas Sketch. 4.0—Fairly Tale Music. Conductor: Schröder. Wetter (Soprano). 5.30—For Hitler Youth.

MONDAY (December 23)

6.0—Wende Orchestra; Christmas Sketch. 7.0—News. 7.10—Talk. 7.20—"Nicholas and Company"—Report with Music (Hofmeier).
8.20—"Christnacht"—Cantata (Wolf). Station Choir and Orchestra. Conductor: Steffen. Banzhaf (Soprano) and Jautz (Tenor). 9.0—News. 9.15—Prize Singing Canaries. 9.30—Christmas Carols. 10.15—Concert from Breslau. 11.0-1.0 a.m. (Tuesday)—See Frankfurt.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m. 6.0 p.m.—Exchange. 6.5—Viennese Orchestra. 6.20—Songs. 6.30—Orchestra. 6.45—News. 6.50—Opera Arias. 7.5—Solos. 7.27—Orchestra. 7.30—News.
7.45—Concert. 8.15—Children's Songs. 8.30—Operetta Music. 8.50—Film Songs. 9.0—"Enfants terribles"—Fantasy. 9.35—Operetta Music.
9.45—Music Hall. 10.20—Orchestra. 10.30—North African News. 10.45—Argentine Orchestra. 11.0—Opera and Operetta Music. 11.20—Marches. 11.30—Operetta Music.
11.45—Orchestra. 12.15 a.m. (Tuesday)—News. 12.20-12.30—Orchestra.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW.
Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.).
Transmits at intervals from 6.45 a.m. 3.45 p.m.—Relay from Asmara. 4.0—News. 4.15—Records. 4.55-5.10—Weather; For Farmers. 5.35—Announcements. 5.45—Topical Talk. 6.0—News in Foreign Languages. 7.5—News.
7.30—"Il canto della sarta"—Play (Zambaldi). In the interval: Science Talk. 8.30—Ciampi (Violin), and Franchetti (Pfte). Sonata (Veracini). Arioso (Fiocco). Rondo (Mozart-Kreisler). Waltz (Brahms). 9.30—News (Italian, Spanish).

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW.
Relayed by Graz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Dornbirn, Klagenfurt, Linz and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.).
Transmits at intervals from 6.0 a.m. 8.0 p.m.—Choir: Christnacht (Haas). 9.0—News. 9.20—Light Music. 9.50—Book Review. 10.5—Announcements. 10.20—Light Music (cont'd.). 10.45—12.0 m't Gaudriot Jazz Band.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW.
Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Łódź, 1,339 kc/s (224 m.); Łwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Toruń, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.).
Transmits at intervals from 5.30 a.m. 11.0 a.m.—Fanfare. 11.3—News. 11.15—Small Station Orchestra. Conductor: Górzynski. 12.25-12.30 p.m.—For Housewives. 2.15—Announcements. 2.20—Exchange. 2.30—Records. 3.0—German Lesson. 3.15—Orchestra. 3.45—Sketch (Jeanson). 4.0—Talk. 4.15—Poems (Wierzyński). 4.20—Luba Lewicka (Songs). 4.50—Talk.
5.0—Records. 5.10—Christmas Programme for Children. 5.40—Art Notes. 5.45—Announcements. 5.55—Farmers' Letter-box. 6.5—Announcements. 6.35—Holiday Hints. 6.40—Sports. 6.50—Topical. 7.0—Light Music. Station Orchestra. Conductor: Górzynski. 7.30—Records. 7.45—News. 7.55—Poland To-day.
8.0—Czaplicki (Songs). Psalm No. 141 (Zarzycki). A travers champs (Karłowicz). Feuilles jaunies (Friedman). Mon âme est triste (Gadejski). Brise printannière (Malinowski). Tu n'est pas morte (Szymanowski). Je pleure (Szymanowski). 8.30—Choynowski Literary Programme.
9.0—Station Orchestra. Conductor: Nowowiejski. Lifan (Cello). Overture, A Midsummer Night's Dream (Mendelssohn). Cello Concerto (d'Albert). Symphonic Poem on a Pergolesi Theme, Nina (Nowowiejski).
10.0—Weather. 10.5—Dance Records.

TUESDAY December 24

4 p.m.

BERLIN, See Cologne. BERMÜNSTER, See Sottens. BRESLAU, See Cologne. BUCHAREST, 4.15—Radio Orchestra. COLOGNE, Orchestra. DEUTSCHLANDSENDER, Concert, Christmas Eve Programme. EIFFEL TOWER, 4.30—History Lesson. FRANKFURT, See Cologne. HAMBURG, See Cologne. HILVERSUM (1,875 m.), K.R.O. Boys, Records. 4.55—K.R.O. Orchestra. HILVERSUM (301.5 m.), Records, Children's Choir, For Children. KALUNDBORG, Service, Talk. KÖNIGSBERG, Christmas Eve Service. LEIPZIG, "The Shepherds' Night"—Play with Music. 4.30—Orchestra. MOSCOW, 4.30—Songs in Praise of Soviet Achievement by a Choir. MUNICH, "We decorate the Christmas Tree"—Variety. OSLO, Christmas Programme: Orchestra, Songs, Recitations. PARIS (PTT), Reading, Talk, Music Lesson. RADIO-NORMANDIE, Tea-Time Hour. 4.45—Children's Corner. RADIO-PARIS, Light Orchestral Records. SOTTENS, Christmas Music. 4.40—Oboe Concerto (de Grandval). STOCKHOLM, Christmas Eve Service from St. Christine's Church, Göteborg. STUTTART, See Cologne. TURIN, News. 4.15—Ambrosiana Orchestra, Weather. WARSAW, Recitations, Play for Children. 4.50—Carols.

5 p.m.

ATHLONE, 5.30—For Children. BERLIN, Concert. BERMÜNSTER, Records, For Children. BRESLAU, Talk, Christmas Music, Talk. BRUSSELS (1), Ego Orchestra. BRUSSELS (2), Spanish Music for Orchestra. 5.30—For Children. BUCHAREST, Talk, Radio Orchestra. BUDAPEST (1), Cello Recital. COLOGNE, Chimes. DEUTSCHLANDSENDER, Chimes, Carols, Stories. EIFFEL TOWER, Exchange. FRANKFURT, Reading. 5.30—Blind School Choir. HAMBURG, Talk. 5.45—Chimes. HILVERSUM (1,875 m.), K.R.O. Orchestra. HILVERSUM (301.5 m.), For Children, Dance Music, Records. KALUNDBORG, Talks, Weather, Wireless Notes. KÖNIGSBERG, Old Christmas Music, Christmas Address. LEIPZIG, Orchestra. 5.30—Christmas Carols. MOSCOW, Choir (contd.). 5.20—Request Concert. MUNICH, Variety (contd.). 5.40—Talk. OSLO, Christmas Programme (contd.). PARIS (PTT), Padeloup Concert Orchestra, Music Review, Art Review, Talk. RADIO-NORMANDIE, Time, Dance Music, Records. 5.30—Variety. RADIO-PARIS, Talks. 5.30—Padeloup Concert Orchestra. SOTTENS, For Women, Records. STOCKHOLM, Service (contd.). 5.30—Dances. STRASBOURG, Markets, Children at the Crib. 5.45—Carol Records. STUTTART, Play. TURIN, 5.10—For Farmers, Markets, For Women, Announcements, Talk. VIENNA, 5.10—Tyrolese Carols. WARSAW, Carols (contd.). 5.20—Service in Memory of Marshal Pilsudski, Announcements, Art Notes. 5.50—"A Christmas Carol"—Play (Dickens-Langfer).

6 p.m.

ATHLONE, For Children, Records News. BERLIN, Concert. BERMÜNSTER, Weather, Story, Records: Favourite Carols. 6.50—Nativity Play with Music. BRESLAU, Carols. BRUSSELS (1), Records, Talk, Songs, Wallon Literature. BRUSSELS (2), For Children, Records. BUCHAREST, News, Song Recital. 6.40—A Christmas Play. BUDAPEST (1), Chimes. 6.15—Liszt Organ Music. DEUTSCHLANDSENDER, Concert. EIFFEL TOWER, 6.30—Talks. FRANKFURT, Reading, Music. HAMBURG, Bremen Cathedral Choir, and Soprano. 6.45—A Christmas Talk. HILVERSUM (1,875 m.),

K.R.O. Orchestra. 6.40—Police Messages, Talk. HILVERSUM (301.5 m.), Records. 6.10—Lajos Orchestra. 6.55—Christmas Carols. KALUNDBORG, News. 6.30—Scandinavian Christmas Concert. KÖNIGSBERG, Christmas Oratorio (Bach). LEIPZIG, Carols by Massed Children's Choirs (Records). MONTE CENERI, Christmas Records, Talk, Records, News. MOSCOW, Concert (contd.). 6.30—Symphony Concert. MUNICH, Light Music. OSLO, Christmas Programme (contd.). News. 6.30—Scandinavian Christmas Inter-Relay. Part I: Sweden. PARIS (PTT), Padeloup Concert Orchestra (contd.). News. POSTE PARISIEN, 6.15—Exchange, Address, Talk, Records. PRAGUE, 6.30—Carol, Slovak Suite (Novak), Organ.

MONTE CENERI, Christmas Concert, Choir. 7.25—Scenes. MOSCOW, Concert (contd.). MUNICH, Light Music (contd.). OSLO, Concert (contd.). Parts II, III and IV—Denmark, Norway, Finland. PARIS (PTT), Reviews. 7.38—Padeloup Concert Orchestra (contd.). POSTE PARISIEN, News, Talks, Review, Records. 7.55—Paris Programme, PRAGUE, Greetings, Reading, Slav Rhapsody. 7.30—French Carols. 7.40—"Christmas Eve in the Barracks." RADIO-NORMANDIE, Concert, Interview, News. RADIO-PARIS, Concert (contd.). 7.30—Talk, Humorous Press Review. ROME, News. 7.25—Christmas Concert. SOTTENS, A Christmas Tale. 7.15—Christmas Concert. STOCKHOLM Concert (contd.). STRASBOURG, Concert (contd.). News. STUTTART, Concert (contd.). TOULOUSE, Music and News. TURIN, Announcements, News. 7.25—See Rome. VIENNA, Address by the Archbishop of Vienna. 7.10—Carols, Talk. 7.35—Orchestra. WARSAW, Orchestra (contd.), Pfte.

8.55—Slovak Programme: Carols, Poems. RADIO-NORMANDIE, Music, Records, Band, Records. RADIO-PARIS, Christmas Tales and Poems, Press Review. 8.45—French Carols. ROME, Christmas Concert (contd.). 8.30—Nativity Play. SOTTENS, Christmas Concert (contd.). News. 8.25—Organ. 8.35—See Monte Ceneri. STOCKHOLM, Christmas Greetings to Sailors, Weather, Records. STRASBOURG, Press Review. 8.10—Carols. 8.30—See Paris (PTT). STUTTART, See Deutschlandsender. 8.20—See Leipzig. TOULOUSE, Light Music. TURIN, See Rome. VIENNA, Orchestra (contd.). 8.15—Distribution of Presents, Chimes. WARSAW, Christmas Carols. 8.40—Christmas Eve Programme.

9 p.m.

ATHLONE, International Party, Talk. 9.30—Variety Programme. BERLIN, Orchestra, Soloists. BERMÜNSTER, "Ein Weihnachtssingen der Augsburgersinghule." BRESLAU, See Deutschlandsender. BRUSSELS (1), Orchestra. 9.30—

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

3.25 National: From King's College Chapel, Cambridge. 3.30 Kalundborg; Cathedral service. 6.30 Scandinavian Stations: Inter-relay. 6.55 Hilversum (301.5 m.): Carols. 7.25 Rome, Turin: Christmas music. 7.30 Prague, etc.: French carols. 8.0 Oslo: Service from Norwegian Sailors' Church, London. 8.0 Warsaw: Carols. 8.30 Paris (PTT), etc.: French Christmas music. 8.40 Warsaw: Christmas Eve programme. 8.45 Radio-Paris: French carols. 10.30 Munich: Christmas concert. 11.0 Beromünster, Budapest, Italian Stations, Prague, Radio-Normandie, Vienna, Warsaw: Midnight masses. 11.15 Paris (PTT): Carols. 11.50 Strasbourg, Radio-Paris: From Strasbourg Cathedral. SYMPHONY CONCERTS 9.50 Cologne: Bruckner's Fifth. 11.0 Brussels 1: "Récit de Noël" (Brussel-mans). LIGHT CONCERTS 12.10 Hilversum (301.5 m.): Orchestra.

5.30 Stockholm: Christmas dances. 6.10 Hilversum (301.5 m.): Lajos orchestra. 7.0 Athlone: Orchestra, songs. 7.15 Sottens: Christmas music. 7.50 Hilversum (301.5 m.): Orchestra. 8.0 Brussels 1: Radio orchestra, songs. 8.0 Brussels 2: Orchestra, play. 9.0 Beromünster: Choirs, orchestra. 9.0 Regional: Conductor, Adrian Boult. 9.50 Leipzig: Light music. 10.10 Brussels 1: Conservatoire concert.

RECITALS

5.5 Budapest 1: Jenö Kerpely (cello). 6.0 Leipzig: Carols (children's choirs). 6.15 Budapest 1: Liszt organ music. 7.25 Warsaw: Pianoforte. 8.30 Eiffel Tower: Pfte. sonata (Beethoven). 8.45 Bucharest: Pfte., Romanian Christmas music (Bartók). 9.20 Leipzig: Günther Ramin (organ). 10.50 Hilversum (301.5 m.): Reading, Bells.

PLAYS

6.50 Beromünster: Christmas play. 8.0 Athlone: Christmas play. 8.55 Hilversum (301.5 m.): Radio play. 9.0 Eiffel Tower: Two plays. 12.0 Poste Parisien: "Noël."

DANCE MUSIC

5.10 Hilversum (301.5 m.); 11.0, Poste Parisien; 12.0, Paris (PTT).

8 p.m.

RADIO-NORMANDIE, For Children. 6.45—News. RADIO-PARIS, Talk. 6.30—Padeloup Concert Orchestra. ROME, Announcements, Tourist Report and News (English). 6.43—News (French). SOTTENS, Records (contd.) Christmas Poems Records, Weather. STOCKHOLM, Dances (contd.). News. 6.30—Scandinavian Christmas Concert. STRASBOURG, "Christmas"—Sequence. 6.30—Christmas Concert. STUTTART, Concert. TOULOUSE, Exchange, Orchestra, News, Songs. TURIN, News in Foreign Languages. VIENNA, Announcements. 6.10—Christmas Oratorio. WARSAW, "A Christmas Carol" (contd.). 6.40—Station Orchestra.

7 p.m.

ATHLONE, Orchestra and Songs. BERLIN, Concert. BERMÜNSTER, Play (contd.). 7.30—17th Century Cantata. BRESLAU, Sequence. BRUSSELS (1), Recitations, Records, Science Review. BRUSSELS (2), Economics, Records of Tenor Songs, Science Review. BUCHAREST, Christmas Play (contd.). BUDAPEST (1), Liszt Music, Records. COLOGNE, Christmas Music. DEUTSCHLANDSENDER, Concert. EIFFEL TOWER, News, Records. FRANKFURT, See Berlin. HAMBURG, Variety. HILVERSUM (1,875 m.), Records. 7.25—Christmas Concert. HILVERSUM (301.5 m.), Carols (contd.). Talk, News. 7.50—A.V.R.O. Orchestra. KALUNDBORG, Scandinavian Concert (contd.). 7.50—Greetings to Danish Sailors afloat. KÖNIGSBERG, Play with Music. LEIPZIG, Dresden Soloist Ensemble.

ATHLONE, Christmas Play. 8.30—International Party. BERLIN, See Deutschlandsender. 8.20—Concert. BERMÜNSTER, News, Radio Orchestra, Christmas Address. BRESLAU, See Deutschlandsender. 8.20—See Berlin. BRUSSELS (1), Radio Orchestra, Songs. BRUSSELS (2), Orchestra, in the interval: Play. 8.45—Talk. BUCHAREST, Play (contd.). 8.30—News. 8.45—Romanian Christmas Music. BUDAPEST (1), Records. COLOGNE, See Deutschlandsender. 8.20—Christmas Carols. 8.40—Kinderszenen (Schumann). DEUTSCHLANDSENDER, Address by Rudolf Hess. 8.20—Orchestra. EIFFEL TOWER, Topical. 8.30—Pfte. Sonata (Beethoven). FRANKFURT, See Deutschlandsender. 8.20—See Leipzig. HAMBURG, See Deutschlandsender. HILVERSUM (1,875 m.), Christmas Concert (contd.). HILVERSUM (301.5 m.), A.V.R.O. Orchestra, Records. 8.55—A Play. KÖNIGSBERG, See Deutschlandsender. 8.20—Carols. LEIPZIG, See Deutschlandsender. 8.20—Christmas Chimes. MONTE CENERI, Scenes (contd.). 8.15—Organ Recital. 8.35—Orchestra. MOSCOW, Talk in German. MUNICH, See Deutschlandsender. 8.20—See Leipzig. OSLO, Service from St. Olaf's Church, London. 8.30—Christmas Greetings to Antarctic Whalers. PARIS (PTT), For Women, Letters. 8.30—Christmas Concert. POSTE PARISIEN, Paris Programme, Exchange, For Children. PRAGUE, Christmas Goodwill Message from Paris. 8.20—Carol, Christmas Poem, Polkas. 8.45—Czech Dances.

Behind the Scenes at the Reveillon. BRUSSELS (2), Orchestra. BUCHAREST, Christmas Songs (contd.). News. BUDAPEST (1), Records. COLOGNE, Reading of Old Letters. 9.50—Symphony No. 5 (Bruckner). DEUTSCHLANDSENDER, Quartet, Double Bass, Talk. EIFFEL TOWER, Drama. FRANKFURT, See Leipzig. News. 9.30—Christmas in the Alps. HAMBURG, Military Band. HILVERSUM (1,875 m.), Christmas Concert (contd.). HILVERSUM (301.5 m.), Play (contd.). KÖNIGSBERG, See Hamburg. LEIPZIG, Chimes (contd.). 9.20—Organ. 9.50—Light Music. MONTE CENERI, Orchestra. 9.25—Poems. 9.45—Records of French Carols. MOSCOW, Talk in French. MUNICH, See Leipzig. 9.20—Bavarian Legend with Music. PARIS (PTT), Concert (contd.). POSTE PARISIEN, For Children. 9.15—Gala Concert. PRAGUE, Slovak Programme (contd.). 9.20—"Christmas Eve in the Mountains" Scene (from Brno). 9.30—Records, Greetings, Orchestra. RADIO-NORMANDIE, Carols. RADIO-PARIS, Choir. 9.30—Christmas Tales. ROME, Christmas Concert (contd.). SOTTENS, See Monte Ceneri. 9.30—Sacred Concert. STOCKHOLM Records. STRASBOURG, See Paris (PTT). STUTTART, See Leipzig. 9.20—Sequence. TOULOUSE, "Christmas"—Fantasia. 9.35—Carols, Sacred Music. TURIN, See Rome. VIENNA, News, Organ, Announcements, Chamber Orchestra. WARSAW, For Poles Abroad (contd.). 9.15—Christmas Eve Relay. 9.30—Music and Recitations.

10 p.m.

ATHLONE, Variety; News, Music. BERLIN, Orchestra, Soloists. BRESLAU, See Berlin. BRUSSELS (1), News, Record. 10.10—Conservatoire Orchestra and Choir. BRUSSELS (2), News. 10.10—Records. BUDAPEST (1), Records. COLOGNE, Symphony (contd.). DEUTSCHLANDSENDER, Orchestra. EIFFEL TOWER, Drama. FRANKFURT, Carols. 10.20—Sequence. HAMBURG, See Leipzig. HILVERSUM (1,875 m.), Concert (contd.). 10.25—The Christmas Spirit. HILVERSUM (301.5 m.), Play (contd.). 10.25—Records, News. 10.50—Christmas Eve Programme. KÖNIGSBERG, See Deutschlandsender. LEIPZIG, Light Music (contd.). MONTE CENERI, Records. MOSCOW, Dutch Programme. MUNICH, Bavarian Legend (contd.). 10.30—Christmas Concert. PARIS (PTT), Concert (contd.). 10.45—Christmas Tales. POSTE PARISIEN, Gala Concert. 10.30—Variety. PRAGUE, Orchestra. 10.50—Talk. RADIO-NORMANDIE, Carols. RADIO-PARIS, "Christmas"—Literary and Musical Programme. ROME, Christmas Concert (contd.). News, Chimes. 10.40—See Turin. SOTTENS, Sacred Concert (contd.). STRASBOURG, See Paris (PTT). STUTTART, See Deutschlandsender. TOULOUSE, Carols, News, Orchestra. TURIN, See Rome, News. 10.40—Relay from the Franciscan Church, Assisi. VIENNA, Orchestra, Fanfare. WARSAW, Records.

11 p.m.

BERLIN, See Stuttgart. BERMÜNSTER, Midnight Mass. BRUSSELS (1), "Récit de Noël"—Oratorio (Brussel-mans). BRUSSELS (2), Opera and Dance Records. BUDAPEST (1), Mass. DEUTSCHLANDSENDER, See Stuttgart. FRANKFURT, See Stuttgart. HILVERSUM (1,875 m.), The Christmas Spirit. HILVERSUM (301.5 m.), Christmas Eve Programme (contd.). KÖNIGSBERG, See Stuttgart. MUNICH, Concert (contd.). PARIS (PTT), Christmas Tales. 11.15—Carols by a Children's Choir. 11.55—Midnight Mass. POSTE PARISIEN, Dance Music. PRAGUE, Midnight Mass. RADIO-NORMANDIE, Midnight Mass. RADIO-PARIS, Christmas Programme (contd.). 11.50—See Strasbourg. ROME, Midnight Mass. STRASBOURG, Service and Carols. 11.50—Midnight Mass. STUTTART, Christmas Sequence. TOULOUSE, Music, News. TURIN, Midnight Mass. VIENNA, Midnight Mass. WARSAW, Midnight Mass.

12 midnight

BRUSSELS (1), Midnight Mass. BRUSSELS (2), Opera and Dance Records. BUDAPEST (1), Mass (contd.). PARIS (PTT), Andolfi Dance Band. 12.35—Records. POSTE PARISIEN, "Christmas"—Play (Arnaud). PRAGUE, Mass (contd.). RADIO-NORMANDIE, Midnight Mass (contd.). RADIO-PARIS, See Strasbourg. STRASBOURG, Mass (contd.). TOULOUSE, Service. 12.30—Concert. WARSAW, Midnight Mass (contd.).

1 a.m. (Wednesday)

BRUSSELS (1), Mass (contd.). BRUSSELS (2), Records. PARIS (PTT), Dance Band (contd.). 1.30—Goldy Dance Band and Songs. POSTE PARISIEN, Play (contd.). Dance Music. RADIO-NORMANDIE, Orchestra, Dance Music. RADIO-PARIS, Dance Music. TOULOUSE, Concert.

2 a.m.

PARIS (PTT), Dance Band. 2.10—"Montparnasse"—Variety, Talk. RADIO-PARIS, Dance Band.

NATIONAL

For Time Signals, see Monday
10.15 a.m. (Droitwich)—Service.
10.30 (Droitwich)—Weather Forecast.
10.45—Records.
11.15—Cinema Organ (Sidney Torch).
11.40—Records.
12.30 p.m.—Leicester Opera House Orchestra.
1.30—Miscellaneous Records.
2.15—BBC Scottish Orchestra; Alexander Carmichael (Baritone).
3.5—To the Unemployed—"This and That"—John Hilton.
3.25—Festival of Nine Lessons and Carols in King's College Chapel, Cambridge.
4.45—John Reinders with his Orchestra.
5.15—The Cellini Trio: Polish Songs (Chopin), Minuet (Shield), Turkish March (Mozart), Melody (Gluck), Presto (Haydn), Song of Sorrow, Song of Ecstasy (Anthony Collins), Impromptu (Schubert), German Dances (Beethoven), Presto in F (Mendelssohn), Flemish Folk Song (trad.), Nocturne (Tchaikovsky), Ländler (Raff).
6.0—"The First News."
6.25—Interlude.
6.30—Foundations of Music. Brahms Piano Trios, played by the Glinka Trio: Trio in B (concl.), Trio in C (1st Movement).
6.55—From the Four Corners.
7.30—BBC Dance Orchestra.
8.0—Bransby Williams, Character Actor, in A Christmas Eve Fancy.
8.15—"All Girls Together" with Joy Jackley, Dorothy Monkman, Nellie Norway, Doris Palmer, Phyllis Robins, Elsie Sterndale, Alma Vane, Jean Melville, Evelyn Hardy and her Ladies' Band.
9.0—Carol Service: BBC Chorus—BBC Military Band; conducted by Leslie Woodgate: Christians, awake, salute the happy Morn' when Christ was born (A. H. Brown); 'Twas in the Winter cold (Barbny); In dulci Jubilo (arr. de Pearsall); The Manger Throne (Steggall); O Come, all ye faithful.
9.30—"The Second News."
10.0—The Little Show, with Freddy Dosh, Joan Carr, Effie Atherton, The Hon. Arthur Eliot, Michel Orisat, Jean Melville and Billy Thorburn. Produced by Bryan Michie and Archie Campbell.
10.30-12.0 (Droitwich)—Dance Music. Billy Cotton and his Band.

REGIONAL

For Time Signals, see Monday
10.15-10.45 a.m. (except Midland)—Droitwich.
10.45—BBC Welsh Orchestra.
11.45—The New Victoria Cinema Orchestra.
12.45 p.m.—Miscellaneous Records.
1.15—Manchester Cathedral Choir, Conductor A. W. Wilson.
2.0—Jan Berenska and his Orchestra.
3.0—Torquay Municipal Orchestra; Laurence Holmes (Baritone).
4.30—Records.
5.15—Children's Hour.
6.0—"The First News."
6.30 (ex. Midland and N. Ireland)—Cinema Organ (Reginald Dixon).
6.30 (Midland)—Variety—Records.
6.30 (N. Ireland)—Roland Powell's Quartet.
7.0 (Regional, N. Ireland)—Cambridge Heath Salvation Army Band.
7.0 (Western)—BBC Welsh Orchestra; Clifford Deri (Baritone). Christmas Programme.
8.0 (Northern)—Murton Colliery Prize Band.
7.0 (Scottish)—Anither Nicht at the Bursts.
7.30 (Midland)—"St. George and the Champions"—Christmas Mummung Play.
7.40 (Northern)—Short Story.
7.45 (Regional)—Records.
7.45 (Western)—G.W.R. (Cardiff) Male Voice Choir; Walter Glynn (Tenor).
7.45 (N. Ireland)—Christmas Eve at Mat Mulcahey's.
7.55 (Northern)—Nativity Play.
8.0 (Midland)—Norris Stanley Sextet.
8.0 (Scottish)—Erik Chisholm (Pfte.).
8.30 (ex. Midland)—"Reconnaisance." Drama by Geoffrey Askev and E. J. King Bull.
8.30—"A Christmas Story."
8.50 (Midland)—"I Remember." Christmas Eve Programme.
9.0 (Regional, Western)—BBC Orchestra (Section D), Conductor, Adrian Boulton.
9.0 (Northern)—Anthology of Dances.
9.0 (N. Ireland)—Records.
9.0 (Scottish)—Excerpts from "Babes in the Wood." Relayed from The Empire Theatre, Glasgow.
9.30 (N. Ireland)—Carols from St. Anne's Cathedral, Belfast.
10.0—News Summary.
10.10-12.0 (Scottish from 10.20; Midland till 10.30)—Dance Music.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 60 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.).
1.30-2.30 p.m.—Records. 5.30—For Children. 6.15—Records. 6.45—News.
7.0—Station Orchestra; Songs. Fantasia (Finck). Santa Claus Suite (Holland). Christmas Bells (Eilenberg).
8.0—"Candle and Crib"—Christmas Play after Purdon (Doak). 8.30—International Party led by Hubert Rooney. 9.15—Talk by Aodh de Blacam: Historic Irish Christmases. 9.30—Variety. 10.30-11.0—News; Music.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Breslau. In the interval at 12.0 noon: Talk. 1.0 p.m.—News. 1.15-2.15—Carols.
3.0—Pütt (Soprano), Hoyer (Contralto), Schauss (Accordion).
3.30—Concert from Cologne.
5.0—"The Christmas Tree"—Station Orchestra, Mozart Choir, Wind Band and Soloists. Poems and Reading in the interval.
7.0-9.0—Christmas Concert. Station Orchestra, Choir and Soloists. Conductors: Frickhoeffer and Weigel. In the interval at 8.0: See Deutschlandsender.
9.0—Jahn Orchestra and Soloists.
11.0-12.0 m't—See Stuttgart.

BEROMÜNSTER

(Switzerland)
556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).
11.0 a.m.—Song Records. 11.29—News. 11.40—Records. 12.25-12.35 p.m.—Weather; Exchange; Cookery Notes. 3.0—Small Radio Orchestra. Conductor: Gilbert.
3.30-5.0—See Sottens. 5.0—Records. 6.30—For Children. 6.0—Weather.
6.5—A Story. 6.20—Records: Old Favourite Carols.
6.50—"The Magi and their Star"—Nativity Play with Music (Duis).
7.30—"Odae Genethlicae ad Christum"—Seventeenth Century Cantata (Mollat). 8.0—News.
8.10—Radio Orchestra. Conductor: Reinshagen. 8.50 (from Berne)—Christmas Address.
9.0-10.0 (from Berne)—"Ein Weihnachtssingen der Augsburger Singschule"—for Soloists, Choirs, and Chamber Orchestra (Jochum) by the St. Cecilia Society of Berne. Conductor: Müller.
11.0-11.45—Midnight Mass.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.).
Transmits at intervals from 4.0 a.m.
11.0 a.m.—Dance Band. 1.0 p.m.—News. 1.10—Exchange. 1.15—Announcements. 2.10—Book Review. 2.25—Sonata in B flat (Mozart). 2.50—Talk.
3.0—See Cologne. 5.0—Talk.
5.20—Old Dutch Carols and Christmas Music. 5.50—Talk by Sven Hedin (on Records): Christmas in Distant Lands.
6.5—Christmas Carols. Children's Choir and the Station Orchestra. Conductor: Grüger. 6.55—Chimes. 7.0—"Es kumpt ein Schiff geladen"—Sequence of Old Carols and Proverbs (Wirth). Station Choir, Orchestra and Soloists. Conductor: Wirth.
8.0—See Deutschlandsender.
8.20-11.0—Programme from Berlin.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW.
6.37-9.0 a.m.—Records; News; Gym. 11.55—Weather; Shipping. 12.0 noon—Christmas in Many Lands—Records.
12.30 p.m.—Orchestra. Conductor: Dejoncker. Jeanne Visele (Pfte.). Pontius Pilate (Morena). Tango (De Puyseleer). Pfte: Venezia e Napoli (Liszt). Selection, "Lakmé" (Delibes). 1.0—News.
1.10—Orchestra. Selection, "The Chocolate Soldier" (O. Straus). Selection, "La Dame en Décolleté" (Yvain).
2.0—Interval. 4.55—Announcements. 5.0—Ego Orchestra from the "Concordia-Augustins."
6.0—Records. Choral Improvisation: O heiliger Geist (Karg-Elert). Choral Improvisation: In dulci jubilo (Karg-Elert). Basso ostinato (Arensky). Postlude in C (Smart). 6.15—Talk. 6.30—Mme. Croiza (Songs). 6.45—Walloon Literature. 7.0—Recitations.
7.15—Records. Ballad (Debussy).

Ballade des femmes de Paris (Debussy). Ballad (Jaubert).

7.30—Science Review.
8.0—Radio Orchestra. Conductor: Gason. Germaine Teugels (Soprano). Wayenberg (Horn). Scènes alsaciennes (Massenet). Ballet, "Sylvia" (Delibes). Berceuse (Faure). Soprano: (a) Aria, "Louise" (Charpentier), (b) Aria, "Carmen" (Bizet). Horn: Romance (Saint-Saëns). Suite pour mes petits amis (Pierné). Prelude and Intermezzo from "Cavalleria rusticana" (Mascagni). Soprano: Carols, (a) La Vierge à la crèche (Perihou), (b) Noël des jouets (Ravel), (c) Noël des enfants qui n'ont plus de maison (Debussy). La voix des cloches (Luigini). Petite Suite de Concert (Coleridge-Taylor).
9.30—Behind the Scenes at the "Reveillon" (Christmas Eve Festival).
10.0—News; Record.
10.10—Symphony Orchestra and Station Choir from the Conservatoire. Conductor: André. Jongen (Organ). Suite in G (Bach-Goossens). Organ Concerto (Handel). Ballet Suite, "The Good-humoured Ladies" (Scarlatti-Tomasini).
11.0—"Récit de Noël"—Oratorio (Bruselmans), relayed from the Conservatoire. Conductor: André.
12.0 m't—Roman Catholic Programme. Midnight Mass from the Benedictine Abbey of Saint-André-lez-Lophem.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
6.37-9.0 a.m.—Records; News; Gym. 12.0 noon—Records; Gipsy Band.
12.31 p.m.—Russian Music. Radio Orchestra. Conductor: Gason. Russian Rhapsody (Gretchaninov). Chant hindou, "Sadko" (Rimsky-Korsakov). Slav Festival (Glazunov). 1.0—News. 1.10—Orchestra (cont'd). Carmagnole et ca-ira, "Napoleon" (Honegger). Film Potpourri (Salabert). Selection, "The Love Parade" (Scherzinger). Who's afraid of the Big Bad Wolf? (Churchill).
1.30—Records: "Hansel and Gretel" (Humperdinck). 2.0—Shipping. 4.55—News.
5.0—Spanish Music. Radio Orchestra. Conductor: Gason. La feria (Turina). Spanish Dances (Granados). Suite, Juegos (Turina). Aragonese (Falla).
5.30—For Children. 6.15—Records. 7.0—Economics.
7.15—Records of Richard Crooks (Tenor). Songs (Hammerstein-Romberg): (a) I bring a love song, (b) You will remember, Goodbye (Tosti). Killarney (Balfé). 7.30—Science Review.
8.0—Orchestra. Conductor: Dejoncker. In the interval: "Peace on Earth"—Play (Suls). 8.45—Talk. 9.0—Orchestra (cont'd). 10.0—News. 10.10—Request Records. 11.0-1.30 a.m. (Wednesday)—Records: (a) "La Bohème" (Puccini), (b) Dance Records.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW.
10.30 a.m.—Time; Water Level; Amusement Guide. 10.35—Records. 11.15—Exchange; Sports Notes. 11.30—Records. 12.15 p.m.—Time; Weather. 12.30—Records. 1.0—News. 4.0—To be announced. 4.15—Radio Orchestra. In the interval at 5.0: Talk. 6.0—News.
6.15—Mihail Scheel (Songs). Aria, "The Messiah" (Handel). Am Wiege (Bach). The Shepherds (Cornelius). The Magi (Cornelius). Christmas Carols (Brediceanu).
6.40—A Christmas Party (Popa).
8.30—Time; Weather; News; Sports Notes. 8.45—Romanian Christmas Music (Bela Bartók) by Miron Schoarec (Pfte.). 9.55—News.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 9.20 a.m.
5.5—Jenő Kerpely (cello).
6.0 p.m.—Chimes. 6.15—Liszt Music (Organ). 7.10—Records.
11.0—Midnight Mass from the "Regnum Marianum Kapelle."

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Breslau. 1.0 p.m.—Announcements. 1.15—Variety from Deutschlandsender. 2.0—For Girls. 2.30—Round the Christmas Tree. 3.0—Orchestra. Conductor: Eysoldt. Wielsch (Pfte.). 5.0—Chimes. 6.0—"Old Christmas Carols"—Organ and Old Instruments.
6.55—Christmas Music by Old Masters. A Chamber Orchestra. Conductor: Kunkel (Violin). Hilde Wesselmann (Soprano), Kastert (Violin), Pilney (Harpischord). Christmas Symphony in G minor (Corelli). Harpischord Concert in F minor

(Bach). Pastorale, "The Messiah" (Handel). Exultate, jubilate (Mozart). 8.0—See Deutschlandsender. 8.20—Christmas Carols.
8.40—Kinderszenen (Schumann) by Delseit (Pfte.). 9.0—Reading of old Christmas Letters (Goethe, Jean Paul, Hebbel, Storm, Frommel, Carl Hauptmann and Rainer Maria Rilke), with Music by Hölcher (Cello) and Delseit (Pfte.).
9.50-11.0—Fifth Symphony (Bruckner) by the Augmented Station Orchestra. Conductor: Knapstein.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Munich. 12.30 p.m.—See Leipzig.
1.0—Variety. 2.0—For Children. 2.30—Barnabas von Gecky Orchestra and Kronburger (Comedian).
4.30—Christmas Eve Programme.
5.0—Christmas Chimes, Carols and Stories.
6.0—Christmas Greetings to Listeners, by the Station Director. Station Chamber Choir, Children's Choir, Wind Band, Lutz Quartet and Margarete Roll (Songs).
7.0—Christmas Concert by the Station Orchestra. Conductor: Debrindt.
8.0—Transmission for all German Stations: Christmas Address by Rudolf Hess, Herr Hitler's Deputy.
8.20—Dobrindt's Orchestra.
9.0—Bruinier Quartet and Mentl (Double Bass). Eine kleine Nachtmusik (Mozart). Emperor Quartet (Haydn).
9.40—Christmas on the High Seas. 9.45—Weather.
10.0—Barnabas von Gecky Orchestra. Jäger (Neo-Bechstein Pfte.) and Fricke (Speaker).
11.0-12.55 a.m. (Wednesday)—See Stuttgart.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg, Kaiserslautern, and Trier, 1,195 kc/s (251 m.).
Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Breslau. 12.0 noon—News. 12.15 p.m.—Variety.
12.30—See Leipzig. 1.15—For Children.
2.0—Hauck Band.
3.0—See Cologne. 5.0—Reading.
3.30—Blind School Choir. 6.0—Reading.
6.15—Popular Christmas Music.
7.0—See Berlin. 8.0—See Deutschlandsender.
8.20—See Leipzig. 9.15—News. 9.30—Christmas in the Alps.
10.0—Karl Erb (Carols). 10.20—"The Tree of Life"—Sequence (Therese Wagner).
11.0-12.0 m't—See Stuttgart.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg and Stettin, 1,330 kc/s (225.6 m.).
Transmits at intervals from 5.0 a.m.
11.0 a.m.—Shipping. 11.10—Light Music from Breslau. 12.0 noon—Variety. 12.30 p.m.—See Leipzig. 1.15—News. 1.30—Light Music.
2.0—The Bremen Stadtmusikanten and the "Embergher" Mandoline Quartet. 2.40—Talk.
3.0—Light Music from Deutschlandsender.
4.0—Light Music from Cologne.
5.0-5.30—Talk: The Giving of Presents.
5.45—Chimes from Hamburg, Kiel, Flensburg, Stettin, Magdeburg, Hanover and Bremen.
6.0 (from Bremen)—"Sing beneath the Christmas Tree"—Bremen Cathedral Choir. Conductor: Liesche. Maria Luterbach (Soprano). 6.45—A Christmas Story. 7.0—Variety.
8.0—See Deutschlandsender. 9.0—Military Band. 10.0-11.0—Concert from Leipzig.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 2.40 p.m.; 100 kW from 2.40 p.m.
K.R.O. Programme.
7.40-8.55 a.m.—Records. 9.40—Records. 10.10—Concert; Records. 11.10—Religious Address. 11.40—Police Messages; Records. 12.10 p.m.—K.R.O. Orchestra. Conductor: van 't Woud. In the intervals: Records. 12.55—K.R.O. Boys. Conductor: Lustenhouwer. 1.40—For Women. 2.40—Records.
3.55—K.R.O. Boys. Conductor: Lustenhouwer. In the intervals: Records. 4.55—K.R.O. Orchestra. Conductor: van 't Woud. In the intervals: Records. 6.40—Police Messages; Talk; Records.
7.25—Christmas Concert. Palestina Choir. Conductor: Vranken; Royal Marine Band. Conductor: Boer; and Soloists. Talks by Schneider and Fred Thomas. 10.25-11.40—"The Christmas Spirit throughout the World."

TUESDAY (December 24)

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 2.40 p.m. and 60 kW from 2.40 p.m.
A.V.R.O. Programme.
7.40 a.m.—Time. 7.41—Records. 9.40—Time. 9.41—Service. 9.55—Records. 10.10—Kovacs Lajos Orchestra. 10.40—Cookery Talk. 11.10—Piet van Egmond, Jr. (Organ), and Anna Ströncz-Kappel (Soprano).
12.10 p.m.—A.V.R.O. Orchestra. Conductor: Treep. 1.40—Egbert Veen (Pfte.). 2.0—Reading. 2.20—Boris Lensky (Violin) and Egbert Veen (Pfte.). 2.40-3.40—Records. 3.55—Records. 4.10—Children's Choir. Conductor: Hamel. 4.40—For Children.
5.10—Dance Music by the A.V.R.O. Decibels. Conductor: Meenk. 5.55—Records. 6.10—Kovacs Lajos Orchestra.
6.55—Christmas Carols. 7.10—Talk. 7.40—News.
7.50—A.V.R.O. Orchestra. Conductor: Treep. 8.40—Records. 8.55—A Play. 10.25—Records. 10.40—News.
10.50-11.40—Christmas Eve Programme. Reading and Chimes.

KALUNDBORG (Denmark)

238 kc/s (1,261 m.); 60 kW. Relayed by Copenhagen, 1,176 kc/s (255.1 m.).
11.0 a.m.—1.0 p.m.—Bendix String Ensemble from the Wivex.
1.30—Radio Orchestra. Conductor: Reesen. Hedwig Bus (Songs). Overture, "Anacreon" (Cherubini). Minuet and Ballet from "Petite Suite" (Debussy). Romanian Folk Dances (Bartók). Judex, from "Mors et Vita" (Gounod). The Three Bears (Eric Coates). Christmas Songs (Cornelius): (a) Juletrae, (b) Hyderne, (c) Kongerne, (d) Simeon, (e) Kristus, (f) Kristbarnet. Mariotta (Gade). Suite on Danish Folk Melodies (Riisager). Selection, "Hansel and Gretel" (Humperdinck). Christmas Fantasia (Reesen).
3.30—Christmas Eve Service from Copenhagen Cathedral. 4.30—Talk: An Old Christmas at Mors. 5.15—Talk. 5.45—Weather; Wireless Notes. 6.0—News.
6.30—Scandinavian Christmas Inter-Relay. Part I. Sweden. Part II. Denmark. Old Folk Songs and Carols. Members of the State Radio Choir. God Aften Mand, god Aften Kvind. Flugten till Aegypten. Rige Hr. Palles Bryllup. Christmas Rhyme. Motets, from "Pratum spirituale" (Pedersøn). Virgin Mary's Song from a Seventeenth Century Nativity Play. Hannem bør altid vi sjunge. Julien har brag velsignet. Bud (Weyse). Højt fra Tractets grønne Top (Horneman). Part III. Norway. Part IV. Finland.
7.50-8.0—Greetings to Danish Sailors afloat.

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.30 a.m.
11.0 a.m.—See Breslau. 1.0 p.m.—News. 1.15—Variety from Deutschlandsender. 2.0—For Children. 2.15—Christmas Carols (Records). 2.20—Reading. 2.30—A Christmas Poem (Menzel) with Music by Heining.
3.0—See Cologne.
4.0—Christmas Eve Service from the Tragheim Church.
5.0—Old Christmas Music. Neemann (Lute), Pognar (Violin), Nicolai (Viola), Biller (Cello), Bärtish (Flute) and a Vocal Quartet.
5.45—Christmas Address by Agnes Miegel.
6.0—Christmas Oratorio (Bach) from the Cathedral. Orchestra and Cathedral Choir. Conductor: Eschenbach. Luise Wül (Soprano), Plückett (Tenor) and Schroeder (Baritone).
7.0—"Maria durch die Heide ging"—Nativity Play of the Present Day (Winkel) with Music by Sosen. Small Station Orchestra and Soloists. Conductor: Wöllner.
8.0—See Deutschlandsender. 8.20—Christmas Carols by a Children's Choir, a Trombone Quartet and the Ninke Trio.
9.0—See Hamburg.
10.0—See Deutschlandsender.
11.0-12.0 m't—See Stuttgart.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 5.0 a.m.
11.0—The Dresden Philharmonic Orchestra. Conductor: Schestak.

TUESDAY (December 24)

12.30 p.m.—Christmas Motets by the St. Thomas' Choir. 1.15—A Christmas Story. 1.35—"Christmas Confectionery"—Margarethe Peiseler (Soprano), Scherzel (Cello), Erthel (Oboe), Wilhelm (Violin) and Weitzmann and Blumer (Pftes.). 2.30—"Hanneken, wir helfen dir"—Play (Ilse Obrig.). 3.20—"Now is the Time for Joy"—Songs, Music and Words. (Wötzel-Wächter) 3.50.—Topical. 4.0—"The Shepherds' Night"—Christmas Play (von Heiseler) with Music by Müller. 4.30 (from Dresden) —Plietzsch Marko Orchestra. 5.30—Christmas Carols by a Wind Quartet and Trumpet Corps. 6.0—Christmas Carols by Massed Children's Choirs (on Records). 7.0—The Dresden Soloists' Ensemble. Hirtenweisen (Brands-Buys). Minuet (Haydn). Träumerei (Schumann). Aria (Regar). Waltz, Die guten alten Zeiten (Strauss). Abendmusik (Jensen). Das Märchen vom Himmelsschlüssel (Blumer). Suite, The Sleeping Beauty (Kienzl). 8.0—See Deutschlandsender. 8.20—Christmas Chimes from Thirty German Cathedrals. 9.20—Ramin (Organ) from St. Thomas' Church. 9.50-11.0—EmDe Orchestra. Overture, "Ilka" (Doppler). Ein Albumblatt (Wagner). Lyric Suite (Grieg). Romance (Sibelius). Andante (Schubert). Excerpts, The Nutcracker Ballet (Tchaikovsky). Winterzeit (Schumann). Piece (Juel-Fredriksen). Scherzo in B flat (Schubert).

LILLE (Radio PTT Nord) (France) 1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.50 a.m. 6.30 p.m.—News; Topical. 7.30—Records. 8.30—See Paris (PTT). 10.30—News.

MONTE CENERI (Switzerland) 1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m. 6.0 p.m.—Christmas Programme—Records. 6.15—Talk; Records. 6.45—News. 7.0—St. Cecilia Choir. Conductor: Tosi. 7.25—"To-morrow is Christmas"—Three Scenes after Vitali (Glauco). 8.15—Vicari (Organ), from the Church of the Holy Angels. 8.35—Radio Orchestra. 9.25—Poems. 9.45—Records: French Carols.

MOSCOW (No. 1) (Russia) 174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m. 2.15 p.m.—For Children. 3.0—News. 3.13—Records. 4.30—"Songs in praise of Soviet Achievement" by the Station Choir. Conductor: Svechnikov. 5.20—Request Concert. 6.30—Symphony Concert. 8.0—Talk in German: Peace on Earth. 8.55—Chimes. 9.5—Talk in French: The History of the Russian Revolutionary Movement. 10.0—"October"—Programme in Dutch.

MUNICH (Germany) 740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.). Transmits at intervals from 5.25 a.m. 11.0 a.m.—Orchestra. 1.0-1.20 p.m.—Announcements. 2.20—For Children. 3.0—Hamer (Baritone) and Köbel (Pfte.). 3.40—Talk: Germanic Christmas Customs. 4.0—"Decorating the Christmas Tree"—Variety. 5.40—Talk: "Lied an die Freude"—Beethoven's Christmas in 1819. 6.0—Light Music. 8.0—See Deutschlandsender. 8.20—See Leipzig. 9.20—"Christmas Eve" (Ludwig Thoma), with Music by Kusche. Speaker and Soloists. Conductor: The Composer. 10.30-12.0 m't—Christmas Concert. Munich Chamber Orchestra, Speakers and Soloists. Conductor: Büchtger. Pastoral (Handel). Three Songs (Courvoisier), Christmas Legend (Scheffler). Three Songs. Vom Himmel hoch (Pachelbel). Christmas Idyll (Niemann). Stille Nacht (Huber-Andersach). Allegretto (Handel). Excerpts, Christmas Music (Manfredini). Three Songs. Festlicher Satz (Büchtger). Excerpts, Horn Concerto in E flat (Mozart). Toccata in F (Bach).

OSLO (Norway) 260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 m.); Hamar, 519 kc/s (578 m.); Notodden, 1,357 kc/s (221.1 m.); Forsgrund, 850 kc/s

(352.9 m.); Rjukan, 1,348 kc/s (222.6 m.); and Trøndelag, 629 kc/s (476.9 m.). Transmits at intervals from 10.30 a.m. 4.0 p.m.—Christmas Programme—Orchestra; Songs; Recitations. 6.15—News. 6.30—Scandinavian Christmas Inter-Relay. Part I: Sweden. Part II: Denmark. Part III: Norway. Part IV: Finland. 8.0—Service from St. Olaf's Church, London. 8.30—Christmas Greetings to Whalers in the Antarctic.

PARIS (Eiffel Tower) (France) 1,456 kc/s (206 m.); 20 kW. Transmits at intervals from 8.0 a.m. 4.30 p.m.—History Lesson. 5.0-5.10—Exchange. 6.30—Theatre Talks. 7.0—News. 7.10—Weather; Racing. 7.20—Topical. 7.45—Records. 8.0—Topical. 8.30—Sonata (Beethoven) by Jean Doyen (Pfte.). 9.0-10.30—Dramatic Programme. Part I: "Descartes"—Dialogue (Mortier). Part II: "Unreveillon dans le marais"—Play after Daudet (Castane).



PARIS (Poste Parisien) (France) 959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 8.15—Exchange. 8.30—For Children. 9.15—Gala Concert. 10.30—Franco-English Programme. English and French Operetta Music. 11.0—Dance Music. 12.0 m't-2.0 a.m. (Wednesday)—"Christmas"—Play (Arnaud); Dance Music.

PARIS (PTT) (France) 695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.50 a.m. 5.0—Padeloup, Concert Orchestra Conductor: Tomasi. 5.30—Music Review. 5.40—Art Review. 5.50—Science Talk. 6.0—Orchestra (contd.). 6.30—News; Review. 7.38—Orchestra (contd.). 8.0—For Women. 8.15—Letters. 8.30—Christmas Concert from the Conservatoire. National Orchestra and Raugel Choir. Conductor: Inghelbrecht. Pierre Bertin, Cathelat, Rousseau Toscano, and Mmes. Milhaud, Feroche and Hena. Excerpts, "L'Enfance du Christ" (Berlioz). Women's Choir and Orchestra: La Vierge à la Crèche (Franck). Songs: (a) Le Noël des Jouets (Ravel), (b) Noël des Enfants qui n'ont plus de Maison (Debussy). Choir and Orchestra (Ladmirault): (a) O Nuit, heureuse Nuit, (b) Pastourelles, Pastoureaux, (c) Adoration des Mages. Excerpts, "Christmas Eve" (Rimsky-Korsakov). Pastorale de Noël (Hahn). 10.30—News. 10.45—Christmas Tales. 11.15—Carols by a Children's Choir, from the Church of Saint-Germain-l'Auxerrois. Conductor: M. l'Abbé Maillot. 12.0 m't—Andolfi Dance Band, Annette Lajon and Serjus. 1.30-3.0 a.m. (Wednesday)—Goldy Dance Band. Sorbier (Songs).

PARIS (Radio-Cité) (France) 1,068 kc/s (280.9 m.); 0.8 kW. Transmits at intervals from 7.0 a.m. 7.0—Racing. 7.15—Topical. 7.40—News. 7.45—Records. 8.0—Sketches. 8.25—For Young People. 8.30—Fred Adison Jazz Band. 8.45—Song Records. 9.0—Jazz Band.

9.15—Music Hall. 9.45—"Christmas before the War"—Records. 10.0—Christmas Service. 10.45—"La Grande Pastorale"—Programme by Georges Colin. 11.55 (approx.)—Midnight Mass from St. Wandrille. 12.35 a.m. (Wednesday)—Records: Drinking Songs. 12.50—Variety. 1.0—Programme by René Guetta, Pierre Devaux and Dauven. 2.0—Talk. 2.10—Montparnasse—Variety. 2.50—Talk: Christmas Abroad. 3.0—Variety. 3.20-4.0—La Cabane Cubaine.

PARIS (Radio-Paris) (France) 182 kc/s (1,648 m.); 80 kW. 6.45 a.m.—Gym. 7.0—Records. 7.15—Press Review. 7.45—Gym. 8.0—Records: French Music. 11.0—Paris Symphony Orchestra. Conductor: Vuillemoz. 12.0 noon—For Farmers. 12.15 p.m.—Paris Symphony Orchestra. Conductor: Vuillemoz. Mlle. Nine de Clynsen (Songs). In the interval at 12.45 p.m.: News and

Sports Review. 2.0—Reading (Ana tole France). 2.30—Records. 3.30—Book Review. 3.45—Reading (Henri Duvernois). 4.0—Records. 5.0—Talk by Mme. Gabrielle Revel. 5.20—Talk. 5.30—Padeloup Concert Orchestra. Conductor: Fourestier. Gaston Rey (Songs). 6.0—Talk: Louis Verneuil. 6.30—Padeloup Concert Orchestra. Conductor: Fourestier. 7.30—Talk: Paris of Yesterday. 7.50—Humorous Press Review. 8.0—Christmas Tales and Poems by Jean Variot. 8.30—Press Review. 8.45—St. Cecilia Choir. Conductor: Fleury. 9.30—Christmas Tales by M. Lafon. 10.0—"Christmas"—Literary and Musical Programme. Songs from 1830-1850: Le Réveillon de Monsieur Pipelot. "Réveillons et Joyeux Noël"—Sequence (Paul Clérouc). Monselet Poems with Music. Unpublished Songs, by Dorival, Lovano, Marino, Madeleine Mathieu, Marthe Ferrare and Suzanne Gaima. 11.50—See Strasbourg. 1.0-3.0 a.m. (Wednesday)—Dance Music by the Victor Pascal Orchestra.

PRAGUE (Czechoslovakia) 638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m. 7.30—French Carols from Brno. 7.40—"Christmas Eve in Barracks"—Report; Songs; Military Band. 8.5—Christmas Goodwill Message from Paris. 8.20—Carol; Christmas Poem (Neruda). Polkas (Hilmar). 8.45—Czech Dances (Palla). 8.55—Slovak Programme—Carols and Poems. 9.20—"Christmas Eve in the Mountains"—Scena, from Brno. 9.30—Dance Records. 9.50—Christmas Greetings. 9.55—FOK—Orchestra. 10.50—Introductory Scene to the 11.5 Transmission. 11.0—Chimes. 11.5-12.30 a.m.—Midnight Mass.

RADIO-NORMANDIE (France) 1,113 kc/s (269.5 m.); 15 kW. 7.0 a.m.—Records; News. 8.0—Records. 8.15—Time; Records.

8.30—Concert. 9.0—Time. 9.1—Carols (Records). 9.15—Light Music. 9.45—Dance Music. 10.0-3.30 p.m.—Variety. 3.30—Music. 3.45—Christmas Festivities. 4.0—Tea-time Hour. 4.45—Children's Corner. 5.0—Time. 5.1—Dance Music. 5.15—Records: Troise and his Mandoliers. 5.30—"The Spirit of Christmas"—Variety. 6.0—For Children. 6.45—News. 7.0—Concert. 8.15—Records. 8.30—Band; Records. 9.0—Carols. In the interval: News. 11.0—Midnight Mass from Rouen Cathedral. 1.0 a.m. (Wednesday)—Orchestra. 1.15—Dance Music. 1.30-2.0—Dance Music.

ROME (Italy) 713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.).

Transmits at intervals from 6.45 a.m. 6.0 p.m.—Announcements and Tourist Report (English). 6.20—News (English). 6.43—News (French). 7.5—News. 7.25—Christmas Concert. Part I. Conductor: de Paoli. Pastoral (Manfredini). Vocal Quartet, Oratorio sopra la Concessione della Beata Vergine (Searlatti). Lullaby (Bach). Part II. Conductor: Tansini. Concerto grosso in D (Stradella). Organ: (a) Natale (Ravanello). (b) Musetta (Nordio). (c) Pastoral (Corelli). Concerto in A (Vivaldi). In the interval at 8.30: Nativity Play (Casella). After the Concert: News; Christmas Chimes. 10.40 till close down—See Turin.

SOTTENS (Switzerland) 677 kc/s (443.1 m.); 25 kW. Relayed by Geneva, 401 kc/s (748 m.).

11.30 a.m.—News. 11.40-1.0 p.m.—Records. 3.30—Christmas Music. Choir and Soloists. Conductor: Theurillat. 4.40—Oboe Concerto (de Grandval), by Emile Cassagnaud. 5.0—For Women. 5.25—Records: Opera and Operetta Music. 6.15—Christmas Poems. 6.35—Records. 6.59—Weather. 7.0—A Christmas Tale. 7.15—"Christmas Concert"—Radio Suisse Romande Orchestra. Conductor: Haug. Mixed Choir. Conductor: Bolter. Paraphrase on a Christmas Carol (Deneréaz). Das Neugeborne Kindelein (Buxtehude). Adoration of the Magi (Respighi). A-Capella Choir: Carols. Pastoral di Natale (Jachino). Psalm 150 (Franck). 8.15—News. 8.25-9.30—See Monte Ceneri. 9.30-11.0—Sacred Concert from the Cathedral.

STOCKHOLM (Sweden) 704 kc/s (426.1 m.); 55 kW. Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.).

4.5 p.m. (from Göteborg)—Christmas Eve Service from St. Christine's Church. 5.30—Dances round the Christmas Tree. 6.15—News. 6.30—Scandinavian Christmas Inter-Relay Part I: Sweden. Part II: Denmark. Part III: Norway. Part IV: Finland. 8.0—Christmas Greetings to Sailors. 8.55-10.0—Records.

STRASBOURG (France) 859 kc/s (349.2 m.); 120 kW. Transmits at intervals from 6.45 a.m. 5.0—Markets. 5.15—Children at the Crib. 5.45—Records: Carols. 6.0—"Christmas"—Sequence in German (Schneider). 6.30—Christmas Concert by the Station Orchestra and Soloists. 7.30—News (French and German). 8.0—Press Review (German). 8.10—Carols. 8.30—See Paris (PTT). 11.0—Christmas Eve Service and Carols from the "Temple Neuf". 11.50-1.0 a.m. (Wednesday)—Midnight Mass from the Cathedral.

STUTTGART (Germany) 574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Breslau. 12.0 noon—News. 12.15 p.m.—A Toy Factory. 12.30—See Leipzig. 1.15—See Frankfurt. 2.0—Orchestra. 3.0—See Cologne. 5.0—"The German Christmas"—Play (Bourfeind) with Old Music. 6.0—Wende Orchestra.

6.30—Orchestra, Choir and Soloists. Conductor: Schröder. 8.0—See Deutschlandsender. 8.20—See Leipzig. 9.20—"Swabian Christmas"—Sequence (Köstlin). 10.0—See Deutschlandsender. 11.0-12.0 m't—"A Christmas Sequence" (Sonnen) with Music by Ekkard, Praetorius, Bach, Cornelius, Wolf and Sonnen: Old Christmas Carols; Poems, Eichendorff and Storm.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 6.0 p.m.—Exchange. 6.5—Orchestra. 6.15—Opera Music. 6.30—Orchestra. 6.45—News. 6.50—Songs. 7.5—Operetta Selections. 7.25—Orchestra. 7.30—News. 7.45—Light Music. 8.15—Operetta Music. 8.30—Viennese Orchestra. 8.50—Solos. 9.0—"Christmas"—Fantasia. 9.35—Carols. 9.45—Sacred Music. 10.0—Carols. 10.30—North African News. 10.45—Orchestra. 11.0—Christmas Music. 11.30—Sacred Music. 11.45—Musical Legends. 11.55—News. 12.0 m't—Service. 12.30-2.0 a.m. (Wednesday)—Concert.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.). Transmits at intervals from 6.45 a.m. 3.30 p.m.—Records. 3.45—Relay from Asmara. 4.0—News. 4.15—Ambrosiana Orchestra. 5.10—For Farmers. 5.15—For Women. 5.35—Announcements. 5.45—Talk. 6.0—News in Foreign Languages. 7.5—News. 7.25—See Rome. After the Relay: News (Italian, Spanish); Records. 10.40—Relay from the Franciscan Church, Assisi. 11.0—Midnight Mass.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Relayed by Graz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Dornbirn, Klagenfurt, Linz and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.). Transmits at intervals from 6.0 a.m. 5.10 p.m.—Tyrolean Carols. 6.0—Announcements. 6.10—Christmas Oratorio (Schütz). 7.0—Address by Cardinal Innitzer, Archbishop of Vienna. 7.10—Carols by the "Sängerknaben vom Wiener Wald". 7.25—Talk: Christmas of the Lonely. 7.35—Orchestra. Conductor: Jascha. 8.15—Distribution of Presents in the Rosegger School, Alpi; Chimes from Eisenstadt, Bregenz, Maria-Saal, St. Florian, Innsbruck, Salzburg and Vienna. 9.0—News. 9.10—Walter (Organ). 9.40—Announcements. 9.55—Vienna Chamber Orchestra. Conductor: Auerth. Concerto grosso (Corelli-Schering). Fantasia in F minor (Schubert-Mottl). Selection, "Hansel and Gretel" (Humperdinck). 10.40—Fanfare. 11.0—Midnight Mass from St. Stephen's Cathedral.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Łódź, 1,339 kc/s (224 m.); Łwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.). Transmits at intervals from 5.30 a.m. 3.0—For Young People. 3.15—Songs. 3.30—Pastorals (Bach, Surzynski, Nowowiejski) by Nowowiejski (Organ). 4.0—Recitations. 4.20—Play for Children. 4.50—Carols (Nowowiejski and Kassern) for Soprano with Instrumental Accompaniment. 5.20—"Christmas Eve at Sowniec"—Service in Memory of Marshal Pilsudski. 5.35—Announcements. 5.45—Art Notes. 5.50—"A Christmas Carol"—Play (Dickens), adapted by Langher. 6.40—Station Orchestra. Conductor: Górzynski. 7.25—Sulikowski (Pfte.). Two Chorals (Bach-Busoni). Improvptu in F minor (Schubert). Ave Maria (Liszt). Christmas (Brzezinski). 8.0—Christmas Carols. Choir and Station Orchestra. Conductor: Nawrot. Soloists, Szzepanska and Korolkiewicz. 8.40—Christmas Eve Programme for Poles abroad. 9.15—Christmas Eve Programme. 9.30—Musical Recitations. 10.0—Records. 11.0—Midnight Mass.

4 p.m.

ATHLONE, Children's Christmas Party, from Cappagh Hospital, Dublin. BERLIN, See Frankfurt. BEROMÜNSTER, Service. 4.45—Unfamiliar Christmas Music (Soprano. Quartet and Harpsichord). BRESLAU, See Frankfurt. BUCHAREST, Talk, Orchestra. COLOGNE, See Frankfurt. DEUTSCHLANDSENDER, Band. 4.30—Lecture Recital. FRANKFURT, Concert. HAMBURG, See Frankfurt. 4.30—The Christmas Tree—Sequence with Music. HILVERSUM (1,875 m.), Dutch Ensemble. Records. 4.40—Service. HILVERSUM (301.5 m.) 4.5 Children's Choir, Orchestra, For Children. KALUNDBORG, Ensemble. 4.30—Reading. KÖNIGSBERG, See Frankfurt. LEIPZIG, See Frankfurt. 4.30—Christmas Music from New York. LILLE, Chamber Music for Strings. MOSCOW, Records. MUNICH, Scenes from a Play. 4.35—Balalaikas. 4.45—Hymns to the Reich. OSLO, Records, Talk. PARIS (PTT), Concert, For Children. PARIS (Radio Cité), Sports Report, Song Records, Sports, Records. RADIO-NORMANDIE, Christmas Tea-time Hour. 4.45—Children's Corner. RADIO-PARIS, "Adam and Eve"—Play with Music. SOTTENS, Reading. 4.20—Robinson Crusoe—Pantomime. STOCKHOLM, Weather. Reading, Records. STRASBOURG, Pfté, and Harmonium, Christmas Records. STUTTGART, See Frankfurt. TURIN, News, Records. 4.30—Concert from the Augusteo, Weather. VIENNA, "Der Rosenkavalier" (Strauss). WARSAW, Dance Music.

5 p.m.

ATHLONE, Address by Mr. de Valera. 5.10—Records. BERLIN, Variety. BEROMÜNSTER, Christmas Music (contd.). 5.15—"Snow White and the Dwarfs"—Play. BRESLAU, Instrumental. BRUSSELS (1), Carols—Mixed Quartet. 5.15—Sonata da Camera (Piéne), Carols with Harp Accompaniment, For Children. BRUSSELS (2), For Young People. BUCHAREST, Talk, Orchestra. COLOGNE, Land ohne Tränen—Christmas Play for Children, with Music. DEUTSCHLANDSENDER, Recital (contd.), Sequence. FRANKFURT, "Die grosse Wende"—Christmas Radio Sequence. 5.25—Franz Hauck Orchestra. HAMBURG, Sequence (contd.). 5.30—Die Weihnachtsgeschichte—Cantata. HILVERSUM (1,875 m.), Service (contd.). HILVERSUM (301.5 m.), For Children, Orchestra, Clarinet. KALUNDBORG, Chimes, Organ. 5.30—Christmas Songs of Many Lands, Weather. KÖNIGSBERG, Christmas Carols of Many Lands. 5.45—Christmas Bells—Dialect Programme. LEIPZIG, Christmas Military Programme. MOSCOW, 5.20—Pfte. Solos, Beranger Poems. MUNICH, "The Mastersingers"—Opera (Wagner) from the National Theatre. OSLO, Sacred Music. 5.30—Programme from Bergen. PARIS (PTT), Padeloup Concert Orchestra. 5.30—Carols. PARIS (Radio-Cité), Sports Report, Round the World in Sixty Minutes—Records. RADIO-NORMANDIE, Light Music, Musical Comedy Melodies, Carillon Recital. RADIO-PARIS, Songs, 5.30—Padeloup Concert Orchestra. SOTTENS, Cathedral Chimes, Horowitz Records. 5.30—La Fontaine's Animals—Sound Pictures. STOCKHOLM, Service from Kristinehamn. STRASBOURG, Records. 5.30—Orchestra. STUTTGART, See Frankfurt. TURIN, Markets, Announcements, Talk. VIENNA, Art, Literature and Music State Prize Winners. WARSAW, For Children, Carol Records.

6 p.m.

ATHLONE, Records. 6.10—See Vienna. BERLIN, Orchestra. BEROMÜNSTER, Weather, Sports. 6.5—A Christmas Meditation. 6.30—Organ Recital. BRESLAU, Reading. 6.30—Opera. BRUSSELS (1), For Children, Talk, Orchestra. BRUSSELS (2), Recitations. 6.15

—Vocal Quartet. 6.30—Harpsichord, Quartet. BUCHAREST, News, Records: Romanian Songs, Wireless Notes. BUDAPEST (1), Band, Talk, Music. COLOGNE, Christmas Concert by the Bielefeld Children's Choir, with Organ. DEUTSCHLANDSENDER, Sequence (contd.). 6.30—Announcements. EIFFEL TOWER, 6.30—Reading, Music Talk. FRANKFURT, "Büerliche Legende"—Play (Bauer). HAMBURG, Cantata (contd.). 6.30—Concert of Waltzes with Songs. HILVERSUM (1,875 m.), Service (contd.). 6.10—Records. HILVERSUM (301.5 m.), Orchestra (contd.), Talk, Programme for Children. KALUNDBORG, News, Talk. KÖNIGSBERG, Dialect Programme (contd.). 6.30—See Hamburg. LEIPZIG, Leipzig Symphony Orchestra, Weisbach. LILLE, See Radio-Paris, News. MOSCOW, 6.30—Women in Soviet Literature—Readings. MUNICH, "The Mastersingers" (contd.), Talk in the interval. OSLO, Bergen Programme, News. 6.30—"A Christmas Carol"—Play (Dickens).

VERSUM (301.5 m.), Programme for Children. 7.45—Smeterin (pfté.). KALUNDBORG, "Aladdin"—Fairy Play with Music. KÖNIGSBERG, See Hamburg. 7.45—Station Orchestra and Choir, with Soprano and Baritone Solos. LEIPZIG, Orchestra (contd.). 7.15—German Opera Music, with Arias. LILLE, 7.30—Light Music and Song Records. MOSCOW, Readings (contd.), MÜNICH, "The Mastersingers" (contd.), Talk in the interval. OSLO, Play (contd.). 7.15—Station Orchestra. PARIS (PTT), 7.30—Weather. 7.38—Padeloup Concert Orchestra. PARIS (Radio-Cité), News, Topical Reviews. 7.45—Cinema Organ Records, Music. POSTE PARISIEN, News, Sports, Notes, Amusements, Talks, Records, Talk, Records. RADIO-NORMANDIE, Concert, Interview, News, Talk. RADIO-PARIS, Orchestra (contd.). 7.30—A Modern Christmas Sketch. ROME, News. 7.30—Operetta. SOTTENS, Sacred Music. Christmas Poems. 7.45—Orchestra with Harp Solos. STOCKHOLM, For Swedish Nationals abroad. 7.15—Comedy.

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

P.M. 5.30 Kalundborg: Foreign carols. 6.0 Cologne: Children's choir. 7.0 Sottens: Sacred music. 8.0 Radio-Paris: Carols. 8.15 Prague: Schütz music. 8.30 Eiffel Tower: Sacred music. SYMPHONY CONCERTS 6.0 Leipzig: Conductor, Hans Weisbach. 7.0 Cologne: Orchestra, choir. 7.0 Frankfurt, etc.: Opera Concert. 7.40 Vienna, Brussels 2 (8.0): Weingartner. 8.15 Regional: Harty, Orrea Pernel. 8.30 Sottens: Schubert programme.

LIGHT CONCERTS

3.0 Frankfurt, etc.: Popular orchestral. 6.10 Vienna, Regional, etc.: Potpourri. 7.10 Hilversum (1,875 m.): Orchestra. 7.45. Oslo: Popular orchestral. 7.45 Sottens: The Orchestra. 8.0 Brussels 1: Orchestra, song, harp. 8.10 Beromünster: Radio orchestra. 8.25 Hilversum (301.5 m.): Orchestra. 8.35 Athlone: Christmas music. 9.0 Paris (PTT): Light music. 9.0 Stockholm: "Swedish pictures." 9.30 Cologne, etc.: Serenade and dances. 9.30 Prague: Light orchestral.

PARIS-(PTT), Padeloup Concert. 6.30—News, Review. PARIS (Radio Cité), Records (contd.), Songs, News. POSTE PARISIEN, 6.15—Children's Corner (Debussy) on Records, Talk, Record, Talk, Orchestral Records. RADIO-NORMANDIE, For Children, News. RADIO-PARIS, Reading, 6.30—Padeloup Concert Orchestra. ROME, Announcements, Talk, News. SOTTENS, Dramatic Programme. 6.30—Christmas Relay. STOCKHOLM, Service (contd.), News. 6.30—For Swedish Nationals Abroad. STRASBOURG, Orchestra. 6.10—See Vienna. STUTTGART, See Frankfurt. TOULOUSE, Orchestra, Songs, Orchestra, News, Opera Arias. TURIN, News. VIENNA, Announcements. 6.10—Radio Potpourri. WARSAW, Carols. 6.45—Announcements.

7 p.m.

ATHLONE, See Vienna. Talk. BERLIN, Christmas Concert. BEROMÜNSTER, "The Nativity"—Play with Old Songs. BRESLAU, Opera (contd.). BRUSSELS (1), For Workers, To be announced. 7.30—For Ex-Servicemen. BRUSSELS (2), Recitations. 7.15—Harpsichord Recital, Talk. BUCHAREST Variety. BUDAPEST (1), Music, Play. COLOGNE, Augmented Station Orchestra and Choir, with Violin and Bass Solos. DEUTSCHLANDSENDER, Concert, Reading. EIFFEL TOWER, News, Weather, Racing, Foreign Affairs, Records. FRANKFURT, Opera Concert. HAMBURG, Waltzes (contd.). 7.45—See Königsberg. HILVERSUM (1,875 m.), Records. 7.10—Orchestra, Press Review, Records. HIL-

8 p.m.

ATHLONE, Polish Music from Warsaw. 8.35—Orchestra, Vocal Quartet. Christmas Music. BERLIN, Concert (contd.). BEROMÜNSTER, News. 8.10—Radio Orchestra. BRESLAU, Opera (contd.). BRUSSELS (1), Symphony Orchestra, with Soprano and Harp Solos. BRUSSELS (2), Concert from Vienna. BUCHAREST, Variety, News, Sports Notes. 8.45—Dance Music. BUDAPEST (1), Play (contd.), News. 8.25—Dance. COLOGNE, Orchestra and Choir (contd.), Christmas Story in the interval. DEUTSCHLANDSENDER, Concert (contd.). EIFFEL TOWER, Home Affairs. 8.30—Sacred Music and Address. FRANKFURT, Opera Music. HAMBURG, See Königsberg. HILVERSUM (1,875 m.), Orchestra. In the interval, Records. HILVERSUM (301.5 m.), 8.5—Address. 8.25—Orchestra. KALUNDBORG, "Aladdin" (contd.). KÖNIGSBERG, Station Orchestra (contd.). LEIPZIG, German Opera Music (contd.). 8.30—Variety. LILLE, Film Records. 8.30—Orchestra. MOSCOW, Czech Programme. MUNICH, "The Mastersingers" (contd.).

Dec. 25 WEDNESDAY

OSLO, Reading, Orchestra, News. PARIS (PTT), Variety. PARIS (Radio-Cité), Music, Variety. 8.45—Christmas Programme. POSTE PARISIEN, Records, Exchange, Concert, Talk. PRAGUE, Nedbal Ballet, Reading. 8.15—Christmas Oratorio (Schütz). RADIO-NORMANDIE, Orchestra, Records. RADIO-PARIS, Christmas Concert: Choir and Orchestra, Press Review. 8.45—"The Cricket on the Hearth." ROME, Operetta (contd.), In the intervals, Talk, News. SOTTENS, Concert (contd.), 8.30—Schubert. News in the interval. STOCKHOLM, Comedy, Weather. STRASBOURG, News, Review in German. 8.30—"The Christ-Child in Flanders"—Nativity Play. STUTTGART, See Frankfurt. TOULOUSE, Operetta Music, Light Music, Variety. 8.50—"Manon" (contd.). TURIN, "I tre sentimentali" (contd.).

PRAGUE, News, Sports, Records 9.30—Light Orchestral Concert. RADIO-NORMANDIE, Records, Christmas Concert. RADIO-PARIS, "The Cricket on the Hearth" (contd.). ROME, Operetta (contd.). In the Intervals, Talk, News. SOTTENS, Concert (contd.). STOCKHOLM, Swedish Pictures—Potpourri for Soloists, Choir and Orchestra. STRASBOURG, Nativity Play (contd.). STUTTGART, See Frankfurt. 9.30—See Cologne. TOULOUSE, "Manon" (contd.). TURIN, Dance Music, News. VIENNA, News. 9.10—Dance Music. WARSAW, Dance Music.

10 p.m.

ATHLONE, Variety Programme, News, Ceilidhe Music. BERLIN, See Cologne. BRESLAU, See Cologne, Organ. BRUSSELS (1), News. 10.10—Request Records. Christus vincit. BRUSSELS (2), News. 10.10—Radio Orchestra. BUDAPEST (1), Orchestra. COLOGNE, Small Station Orchestra. DEUTSCHLANDSENDER, Dance Bands. FRANKFURT, See Cologne. HAMBURG, Station Dance Band, Variety Items in the intervals. HILVERSUM (1,875 m.), Records. HILVERSUM (301.5 m.), Orchestra. 10.25—Bass, Dramatic Programme. KÖNIGSBERG, Light Music and Dance Music (contd.). LEIPZIG, Act III of "The Mastersingers" on Records. LILLE, Station Orchestra, News. MOSCOW, German Talk. MUNICH, —See Deutschlandsender. PARIS (PTT), Christmas Programme (contd.), News. 10.45—Dance Band. PARIS (Radio Cité), News, Theatre Relay. POSTE PARISIEN, Orchestral Concert. 10.30—Variety. PRAGUE, Orchestra. RADIO-NORMANDIE, Christmas Concert. RADIO-PARIS, "The Cricket on the Hearth" (contd.). 10.45—Dance Music and Light Music by the Chapelier Orchestra. ROME, Operetta (contd.), News. STOCKHOLM, Swedish Pictures (contd.). STRASBOURG, Nativity Play (contd.). STUTTGART, See Deutschlandsender. TOULOUSE, "Manon"; News in the interval. VIENNA, Announcements. 10.15—Dance Band. WARSAW, Dance Records.

11 p.m.

ATHLONE, Ceilidhe Music. BRUSSELS (1), Records: Christmas Music. BRUSSELS (2), Orchestra. 11.10—Dance Records. BUDAPEST (1), News. DEUTSCHLANDSENDER, Dance Bands. FRANKFURT, Variety Concert. HAMBURG, Station Dance Band, Variety Items in the intervals. HILVERSUM (1,875 m.), Records. HILVERSUM (301.5 m.), Pfté, Records. LEIPZIG, Act III of "The Mastersingers" (contd.). PARIS (PTT), Dance Band. PARIS (Radio-Cité), Theatre Relay. 11.45—An Evening in Harlem. RADIO-NORMANDIE, Dance Music. RADIO-PARIS, Dance Music and Light Music. STUTTGART, See Frankfurt. TOULOUSE, "Manon" (contd.), Orchestra. VIENNA, Viennese Music. WARSAW, Dance Records.

12 midnight

FRANKFURT, Variety Concert. PARIS (Radio Cité), News, An Evening in Harlem. RADIO-NORMANDIE, Dance Music. RADIO-PARIS, Dance Music and Light Music. STUTTGART, See Frankfurt. TOULOUSE, Light Music, News, Marches.

1 a.m. (Thursday)

RADIO-NORMANDIE, Dance Music.

10.0 Poste Parisien: Light orchestra. OPERAS 2.0 Budapest 1: "Hänsel und Gretel," "Die Puppenfee." 5.5 Munich: "The Mastersingers." 10.0 Leipzig: "The Mastersingers," Act III. OPERETTA 7.25 Rome: "Rose Queen" (Leoncavallo). RECITALS 12.0 Radio-Paris: Revel (organ). 5.0 Kalundborg: Chimes, organ. 5.30 Deutschlandsender: Shakespeare's Lovers and Fools. 6.30 Beromünster: Organ. 7.30 Warsaw: Songs; 8.0, Chopin. 7.45 Hilversum (301.5 m.): Smeterin (pfté.). PLAYS 4.0 Radio-Paris: "Adam and Eve." 6.30 Oslo: "A Christmas Carol." 7.0 Beromünster: Nativity play, with music. 7.0 Kalundborg: "Aladdin" (with music). 8.30 Strasbourg: Nativity play. 8.45 Radio-Paris: "The Cricket on the Hearth." TALKS 3.0 National, Regional: The King's Message. DANCE MUSIC 8.25 Budapest 1; 10.0, Warsaw: 10.30, Regional; 10.45, Paris (PTT), Radio-Paris; 11.0, National; 11.10, Brussels 2. MISCELLANEOUS 7.0 Bucharest: Christmas variety. 8.0 Paris (PTT): Variety.

9 p.m.

ATHLONE, Orchestra (contd.), Variety Programme. BERLIN, Concert (contd.). 9.30—See Cologne. BRESLAU, News. 9.30—See Cologne. BRUSSELS (1), Talk. 9.15—Symphony Orchestra and Songs. BRUSSELS (2), "Deezeken shakes his blanket."—Play. 9.30—Orchestra. BUCHAREST, Dance Music, News. BUDAPEST (1), Dance Band, Orchestra. COLOGNE, To be announced, 9.30—Station Light Orchestra. DEUTSCHLANDSENDER, Band. EIFFEL TOWER, Sacred Music (contd.). FRANKFURT, News. 9.30—See Cologne. HAMBURG, Dance Band, Variety Items in the intervals. HILVERSUM (1,875 m.), Orchestra (contd.). 9.40—Press Review, Records. HILVERSUM (301.5 m.), Orchestra, Dramatic Programme, Orchestra (contd.). KALUNDBORG, "Aladdin" (contd.). KÖNIGSBERG, Light Music and Dance Music by the Börschel Band. LEIPZIG, Variety. LILLE, Station Orchestra. MOSCOW, English Programme. MUNICH, "The Mastersingers" (contd.). OSLO, Topical Talk. 9.15—Station Orchestra. PARIS (PTT), Christmas Programme from the Salle Pleyel. PARIS (Radio Cité), Theatre Relay. POSTE PARISIEN, Talk, Variety, News.

WEDNESDAY (December 25)

NATIONAL

For Time Signals, see Monday. 10.30 a.m. (Droitwich)—Weather Forecast. 10.45 (Droitwich)—Christmas Morning Service, relayed from Leicester Cathedral. 11.50—Cinema Organ (Quentin Maclean). 12.30 p.m.—Charles Manning and his Orchestra. 1.35—Records. Excerpts from "Merrie England," by Sir Edward German. 2.25—"This Great Family." Prologue: The Spirit of Christmas expressed by A Christmas Carol, The Story of the Nativity as told by St. Luke, The Bells of the Church of the Nativity, Bethlehem. 2.30—Programme showing the spirit of Christmas in homes and families throughout Great Britain and the British Empire. 3.0—A Message from H.M. The King, relayed from Sandringham. 3.15—Hastings Municipal Orchestra. Conductor: Julius Harrison; Henry Wendon (Tenor). Carols by Audience and Orchestra, led by Hastings Choral Union. 4.45—John MacArthur Quintet. 5.15—BBC Dance Orchestra. 6.0—Weather Forecast. 6.10—"Unto Us." A Pageant of Christmas. Literary Editor, R. Ellis Roberts; Musical Editor, Walford Davies; Conductor, Trevor Harvey. Devised and Produced by Robin Whitworth. Cast includes: Laidman Browne, Robert Farquharson, Frith Macarness, Barbara Palmer, Robert Speaight, Ion Swinley. 7.15—Boar's Head Ceremony at Queen's College, Oxford. Relayed from The College Hall. 7.30—A Radio Christmas Party. 9.30—News Summary. 9.40—Wireless for the Blind. An appeal on behalf of The British Wireless for the Blind Fund by the Rt. Hon. Viscount Sankey. 9.50—BBC Midland Orchestra. Overture, The Christmas Elf (Pfitzer), Divertissement (Lalo), Summer Evening (Kodaly), Torch Dance (Meyerbeer), Ballade, From Olden Times (Liadov), Suite of Incidental Music to La Pisanella (Pizzetti). 11.0-12.0 (Droitwich)—Henry Hall's Hour.

REGIONAL

For Time Signals, see Monday. 10.30 a.m. (ex. Midland)—Droitwich. 10.45 (ex. Midland and Scottish)—Droitwich. 11.0 (Scottish)—Service, from the Park Parish Church, Glasgow. 11.50—BBC Northern Orchestra. 12.45 p.m.—Troise and his Mandolins; Don Carlos (Tenor). 1.30—BBC N. Ireland Orchestra. 2.20—Interval. 2.25—"This Great Family." Prologue: Carol, Nativity Story from St. Luke, and Bells of Bethlehem. 2.30—Programme showing the spirit of Christmas in homes throughout the Empire. 3.0—Message from H.M. The King, relayed from National. 3.15—The J. H. Squire Celeste Octet; May Moore (Soprano). 4.15—The Lute Band; Joseph Farrington (Bass). 5.15—The Children's Hour. 6.0—Weather Forecast. 6.10—From the Banks of The Danube. A Potpourri. Relayed from Vienna. 7.30 (Regional, Western)—The Leslie Bridgewater Quintet. 7.30 (Midland)—Dance Music. 7.30 (Northern)—Carols and Other Music. A Miscellany. 7.30 (Scottish)—"No Room at the Inn." A Christmas Morality Play. 7.30 (N. Ireland)—Songs for Hard Wear. Male Voice Chorus; Stuart Robertson (Baritone). 8.0 (Northern)—"A Christmas Knock-out"—Short Story by Carter Platts. 8.0 (Scottish)—Chance Acquaintance—Alistair Borthwick. 8.15—Symphony Concert. BBC Orchestra (Section E). Conducted by Sir Hamilton Harty; Orrea Pernel (Violin): Concerto for Orchestra with Organ (Handel), In Ireland, Rhapsody (Harty), Andante and Rondo (Haffner Serenade) (Mozart), Symphony No. 1 in C (Bizet) (first broadcast performance). 9.30—News Summary. 9.40—National. 9.50—Joe Loss and his Band. 10.20—Jenny Howard (The Comedy Girl) assisted by Percy King. 10.30 (ex. Scottish)—Joe Loss and his Band (cont'd.). 10.30 (Scottish)—Scottish Dance Music. 11.0-12.0 (ex. Midland)—Henry Hall's Hour.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)
565 kc/s (531 m.); 60 kW. Relayd by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.).
3.0 p.m.—Records. 4.0—Children's Christmas Party, from Cappagh Hospital, Dublin.
5.0—Address by Mr. de Valera.
5.10—Records. 6.10—Viennese Music from Vienna. 7.40—Talk: In Bethlehem. 8.0—Polish Music.
8.35—Station Orchestra; Vocal Quartet. Christmas Overture (Coleridge-Taylor). Christmas Medley (Ketelbey). Dream of Christmas (Ketelbey). Christmas Tree Suite (Rebikov). Christmas 9.30—Variety. 10.30—News. 10.45-12.0 m't—Ceilidhe Music.

BERLIN (Germany)
841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—Orchestra. 1.0 p.m.—Talk: Sport. 1.15-2.15—Music. 2.45—Students' Programme. 3.15—Concert from Frankfurt. 5.0—Variety. 6.0—Kallies Orchestra. Breithofer (Violin). 7.0—Christmas Concert. Station Orchestra and Male Voice Choir. Gerda Heuer (Soprano), Hoffmann (Baritone). Conductor: Frick-hoefler. Christmas Overture (Haydn). Aria, "Figaro" (Mozart). Overture and Aria, "Czar and Carpenter" (Lortzing). Ständchen (Schubert). Unfinished Symphony (Schubert). Overture and Ballet, "Nussknacker und Mausekönig" (Schnaub). Two Songs (Wolf). Overture, "Rübezahl" (Weber). Aria, "Der Freischütz" (Weber). Aus Thüringen (Raff). 9.30-11.0—See Cologne.

BEROMÜNSTER (Switzerland)
556 kc/s (539.6 m.); 100 kW. Relayd by Basle and Berne, 1,375 kc/s (218.2 m.).
8.30 a.m.—Christmas Music. 9.0—Protestant Service. 9.45—Christmas Music (Armin Knab). The Berne Singing Boys. Conductor: Keller. The Zurbrugg-Andraee Quartet. 10.15—Three Christmas Stories. 10.25—Berne Radio Pfte. Trio. 11.0—Radio Orchestra. Conductor: Reinshagen. 11.29—News. 11.40—Orchestra (cont'd.). 12.30 p.m.—Song Records. 12.45—Reading. 1.10—Talk with Gramophone Illustrations: Lullabies of the Nations. 4.0—Roman Catholic Service. 4.45—Unfamiliar Christmas Music by Dora Garrau (Soprano), the Zurbrugg-Andraee Quartet, Max Zulauf (Harpischord). 5.15—"Snow-White and the Seven Dwarfs"—Fairy Play (Gretl Tribolet-Wächter). 5.45—To be announced. 6.0—Sports. 6.5—Talk: A Christmas Meditation. 6.30—Schaerer (Organ). 7.0—"The Nativity"—Play with Old Songs (Weber). 8.0—News. 8.10-9.15—Radio Orchestra. Conductor: Bernhard.

BRESLAU (Germany)
950 kc/s (315.8 m.); 100 kW. Relayd by Gleiwitz, 1,231 kc/s (243.7 m.).
Transmits at intervals from 4.0 a.m.
11.0 a.m.—See Deutschlandsender. 1.0 p.m.—News. 1.10—For Women. 1.30—Greetings. 1.40—Variety. 2.30—"Die Christkindelspieler"—Play (Schenke). 3.0—See Frankfurt. 5.0—Instrumental. 6.0—Reading. 6.30—"Der Freischütz"—Opera (Weber). 9.0—News. 9.30—See Cologne. 10.10-11.0—Drishchner (Organ).

BRUSSELS (No. 1) (Belgium)
620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; News; Gym. 10.0—Records: Mass in B minor (Bach). 11.55—Weather; Shipping. 12.0 noon—Records. 12.30 p.m.—Radio Orchestra. Conductor: Gason. 1.0—News. 1.10—Orchestra (cont'd.). 1.30-2.0—Records. 5.0—Carols—Mixed Quartet. Conductor: Scha. 5.15—Sonata da Camera (Pierne) on Records. 5.30—Carols by Marguerite Thys (Soprano), Mireille Flour (Harp). 5.45—For Children. 6.20—Talk: Christmas in the Bush. 6.30—Orchestra. Conductor: Walpot. Pastoral Music (Bach). Sancta Maria (Fauré). Bourrée et musette (Perilhou). Cantabile (Frank). Aux étoiles (Duparc). Interlude (Chausson). Flute: Andante (Mozart). 7.0—For Workers. 7.15—To be announced. 7.30—For Ex-Service-men.

8.0—Symphony Orchestra. Conductor: André, Marguerite Thys (Soprano), Mireille Flour (Harp). Jauchzet Gott (Bach). Harp and Orchestra: Concert Piece (Pierne). Cantata, Ich bin vernügt (Bach). Fantasia on Walloon Carols (Jongen). 9.0—Talk. 9.15—Symphony Orchestra. Conductor: Franz André. Theodora Lambert (Songs). Pastorale from "Philemon et Baucis" (Gounod). Song, "Romeo and Juliet" (Gounod). Prelude and Entr'acte, from "Le jongleur de Notre Dame" (Massenet). Overture, "La dame blanche" (Boieldieu). Waltz, "Le Pardon de Ploermel" (Mayerbeer). Overture, "The Flying Dutchman" (Wagner). 10.0—News. 10.10—Request Records. 10.55—Christus vincit. 11.0-12.0 m't.—Records: Carols.

BRUSSELS (No. 2) (Belgium)
932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.37-9.0 a.m.—Records; Gym; News. 10.0—Records. 12.0 noon-2.0 p.m.—Orchestra. Conductor: Walpot. Ferari (Violin) and Tolkowsky (Baritone). In the interval at 1 p.m.—News. 5.0—For Young People. 6.0—Pieter Buckinx (Recitations). 6.15—Weynandt Vocal Quartet. 6.30—Rachel Thauvoys (Harpischord). Allemande (Raick). Melody (Fiocco). Gigue (Locillet). Pieces (Couperin); (a) La Régente ou la Minerve, (b) Le dodo, (c) L'éva-porée, (d) Musette de Tavernet. 6.45—Weynandt Vocal Quartet. Cecilia (De Boeck). Van Jezus en Sint Janneken (Meulemans). Te Kieldrecht (Meulemans). Schoon lief (Van Duyse). Het waren twee conincskinderen (Van Duyse). Shepherds' Chorus, "Rosamunde" (Schubert). 7.0—Bert De Bois (Recitations). 7.15 Rachel Thauvoys (Harpischord) Rhapsody on Old Flemish Songs (Moulaert). Pieces (Auric): (a) Villanelle and Entrée, (b) Dance, (c) Voltes. 7.30—Gardening Talk. 8.0—Concert from Vienna. 9.0—"Deezek shakes his blanket"—Play (Baekelmans). 9.30—Radio Orchestra. Conductor: Gason; Rhapsodie dahoméenne (De Boeck). Folk Songs (Schoemaker). Noël (Dubois). Liebsleid (Kreiser). Schön Rosmarin (Kreiser). La Féria (Lacôme). 10.0—News. 10.10—Radio Orchestra. Conductor: Gason. Scenes from an Imaginary Ballet (Coleridge-Taylor). Scene and Waltz, "Gretna Green" (Guiraud). Excerpt, "Une chasse au lion" (Gaubert). Dances, "Tom Jones" (German). Serenade (Huë). Divertissement (Lalo). Tritsch-Tratsch (Strauss). 11.10-12.0 m't.—Dance Records.

BUCHAREST (Romania)
823 kc/s (364.5 m.); 12 kW. Transmits at intervals from 10 a.m.
6.0 p.m.—News. 6.15—Records: Romanian Songs. 6.40—Wireless Notes. 7.0—Variety. 8.30—News; Sports. 8.45—Dance Music. 9.55—News.
BUDAPEST (No. 1) (Hungary)
546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 8.0 a.m.
2.0 p.m.—"Hänsel and Gretel," "Die Puppenfee." 4.50—Dance of the Stars (Tamas). 5.20—Kiss Cigany Band. 6.20—Talk. 6.50—Dortheimer and Sultsen (Violins) and Lang (Harpischord). 7.25—"A 1986 Radio Programme"—Play (Feleki). 8.10—News. 8.25—Eröss-Sovinszki Dance Band. 9.30—Bertha Orchestra. 11.5—News.

COLOGNE (Germany)
658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Deutschlandsender. 1.0 p.m.—Greetings. 1.15—See Berlin. 2.0—For Children. 2.30—Guessing Competition. 3.0—See Frankfurt. 5.0—Play for Children. 6.0—Christmas Concert. Bielefeld Children's Choir. Conductor: Oberschelp. Bunk (Organ). 7.0—Station Orchestra and Choir. Conductor: Kühn. Moodie (Violin), Willy (Bass). Excerpts, The Christmas Oratorio (Bach). Songs. Violin Concerto in E (Bach). Ballet (Pfitzer). Overture, "The Sleeping Beauty" (Humperdinck). Song. Christmas Overture (Nicolai). Wedding Waltz (Dohnányi). March (Kämpf). In the interval: "Das gestohlene Christkind" (Kneip). 9.0—To be announced. 9.30-11.0—Serenade, Dances. Station Light Orchestra. Conductor: Eysoldt. Engels (Tenor).

DEUTSCHLANDSENDER (Germany)
191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—Variety. 1.0 p.m.—Play after Hans Andersen. 1.30—Band. 3.0—Band. In the interval at 3.50: Reading. 4.30—"The Seventh Commandment of Music"—Programme by Willi Libiszowski. 5.30—"Lovers and Fools in Shakespeare"—Sequence (Rothe), with Music by Purcell. 6.30—Announcements. 7.0—Mozart—Strauss—Wagner. Station Orchestra. Conductor: Strange. Erna Berger (Soprano) and Watzke (Baritone). Overture, "The Magic Flute" (Mozart). Arias, "Il Seraglio" (Mozart), "The Magic Flute" (Mozart). Serenade in E flat (Strauss). Dance, "Josephslegende" (Strauss). Aria, "Ariadne auf Naxos" (Strauss). Selection (Wagner), from "Siegfried." "The Mastersingers," "The Rhinegold," and "The Valkyrie." In the interval at 7.50: Reading. 9.0—Barnabas von Gezy Band. 10.0-11.55—Dance Bands.

FRANKFURT (Germany)
1,195 kc/s (251 m.); 25 kW. Relayd by Cassel, Coblenz, Freiburg, Kaiserslautern, and Trier, 1,195 kc/s (251 m.).
Transmits at intervals from 5.0 a.m.
11.0 a.m.—Orchestra. 1.0 p.m.—For Children. 1.45—Hauck Band. 2.40—"The Tin Soldiers' Christmas Parade"—Sequence. 3.0—Popular Orchestral. 5.0—"Die grosse Wende"—Christmas Sequence. 5.25—Hauck Band. 6.0—Play (Bauer). 7.0—Opera Music. 9.0—News. 9.15—Olympic Games Notes. 9.30—See Cologne. 11.0-1.0 a.m. (Thursday)—Variety Concert. Hauck Band. Station Orchestra and Soloists. Conductor: Eysoldt.
HAMBURG (Germany)
904 kc/s (331.9 m.); 100 kW. Relayd by Bremen, Flensburg, Hanover, Magdeburg, and Stettin, 1,330 kc/s (225.6 m.).
Transmits at intervals from 5.0 a.m.
11.0 a.m.—Orchestra and Soloists. 1.0 p.m.—For Children. 2.0 p.m.—Erna Maria Müller (Soprano). 2.30—Report. 3.0—See Frankfurt. 4.30—"The Christmas Tree"—Sequence with Music (Dieckelmann). 5.30 (from Flensburg)—"Die Weihnachtsgeschichte"—Cantata (Distler) from St. Nicholas Church. 6.30—Waltzes. Hanover Symphony Orchestra and Anders (Tenor). Conductor: von Sosen. 7.45—See Königsberg. 9.0-12.0 m't.—Dance Band and Variety.

HILVERSUM (1,875 m.) (Holland)
160 kc/s; 10 kW until 2.40 p.m.; 100 kW from 2.40 p.m.
7.10-8.10 a.m.—K.R.O. Programme. 7.10—Christmas Service. 8.10—Religious Talk. 9.10—Close. N.C.R.V. Programme. 9.10—Sacred Music. 10.0—Service; Sacred Music. 11.55—Children's Choir; Records. 12.55 p.m.—N.C.R.V. Ensemble. Conductor: Hurk; Records. 2.10-2.55—Christmas Story. 3.10—Records. 3.25—Dutch Ensemble. Conductor: Mlle. Stoop; Records. 4.40—Service. 6.10—Records. 7.10—N.C.R.V. Orchestra. Conductor: Hurk. 7.40—Press Review; Records. 8.5—N.C.R.V. Orchestra. In the interval: Records. 9.40—Press Review. 9.55-11.10—Records.

HILVERSUM (301.5 m.) (Holland)
995 kc/s; 15 kW until 2.40 p.m. and 60 kW from 2.40 p.m.
V.A.R.A. Programme. 7.40 a.m.—A Christmas Oratorio (Holst). Conductor: v. Cappellen. 9.40—V.P.R.O. Religious Programme. 11.40—Nativity Play with Music. (L. Weber Jonckers). 12.40 p.m.—Talk. 1.0—Trumpet Quartet. 1.15—Records. 1.40—To v.d. Sluys (Songs). 1.57—Jong (Organ). 2.11—To v.d. Sluys (Songs). 2.25—Jong (Organ); Records. 3.15—Talk. 3.20—v.d. Star (Viola d'Amore); Schoute (Pfte.). 3.40—Recitations. 4.5—"De Kreteltes" Children's Choir. 4.25—V.A.R.A. Orchestra. Conductor: de Groot. Bresser (Cello). 4.55—For Children. 5.25—V.A.R.A. Orchestra (cont'd.). v. d. Heide (Clarinet). 6.10—Talk: Psychology. 6.40—V.P.R.O. Programme for Children. 7.40—Announcements. 7.45—Smeterlin (Pfte.). 8.5—Address. 8.25—Residentie Orchestra. Conductor: Spaanderma. 9.10—Dramatic Programme. 9.40—Residentie Orchestra (cont'd.).

10.25—Lammen (Bass). 10.40—Dramatic Programme. 11.0-11.40—Records; Rossican (Pfte.).

KALUNDBORG (Denmark)
238 kc/s (1,261 m.); 60 kW. Relayd by Copenhagen, 1,176 kc/s (255.1 m.).
7.25 a.m.—Sacred Music by the Choir of the Blessed Sacrament Church. 8.10—Weather. 8.20—Carols by a Brass Band. 9.0—Service. 10.30—News. 11.0—Henrichsen (Pfte.). 11.20—Reading (Karla Frederiksen). 11.40—Danish Music by Johanne Karstens (Songs), Christensen (Violin), and Klabeel (Organ). 12.0 noon—Scandinavian Manifestation for Peace—Addresses by Bishop Valdemar Amundsen (Denmark), Bishop Aulén (Sweden), Bishop Berggrav (Norway), and Bishop Lehtonen (Finland). 1.0 p.m.—Service, from Christiansborg Castle Church. 2.30—Hansen Instrumental Ensemble; Church Choir. Conductor: Pedersen. 4.30—Reading. 5.0—Jens Laumann (Organ), and chimes, Frederiksborg Castle Church. 5.30—Christmas Songs of Many Lands by Ebba Hertz. Germany: Auf dem Berge da geht der Wind. England: I saw three Ships. Italy: Il natale. Sweden: Staffen ställedrag. Iceland: Notin helga (Einarrson). Denmark: Julen har bragt (Weyse). Palestine: Dichanuka. 5.30—News. 6.30—Talk: Sven Hedin's Exploration of Central Asia in 1934. 7.0-10.0—"Aladdin"—Fairy Play (Oehlenschlaeger); Music by Carl Nielsen.

KÖNIGSBERG (Heilsberg) (Germany)
1,031 kc/s (291 m.); 100 kW. Relayd by Danzig, 1,303 kc/s (230.2 m.).
Transmits at intervals from 5.0 a.m.
11.0 a.m.—Orchestra from Saarbrücken. 1.0 p.m.—Racing Results. 1.15—See Berlin. 2.0—Songs by Girls. 2.25—Rudolf Horn (One-armed Pianist). 2.50—Talk. 3.0—See Frankfurt. 5.0—Christmas Carols of Many Lands. 5.45—"Christmas Bells"—North German Dialect Programme. 6.30—See Hamburg. 7.45—Station Orchestra. Conductor: Mauer. Station Choir. Conductor: Firschow. Maria Wiczorek-Golde (Soprano), Eggert (Baritone). Overture and Air in D (Bach). Excerpts, "The Messiah" (Handel). Christmas Overture (Nicolai). Choir: Carols. Soprano: Carol (Cornelius). Christmas Pastoral (Müller). Songs (Courvoisier). Carols. Overture, "The Christmas Fairy" (Pfitzer). 9.0-11.0—Börschel Band.

LEIPZIG (Germany)
785 kc/s (382.2 m.); 120 kW. Relayd by Dresden, 1,285 kc/s (233.5 m.).
Transmits at intervals from 4.0 a.m.
11.0 a.m.—Orchestra from Saarbrücken. 1.0 p.m.—"In Praise of Good Things"—a Christmas Song (Schettler). 1.55—"Die Sonne hat gesiegt"—Winter Solstice Programme on Records. 2.35—Christmas Poems. 3.0—See Frankfurt. 4.30—Christmas Music by an Army Band, relayed from New York. 5.0—"Christmas"—Military Programme (on Records). 6.0—Leipzig Symphony Orchestra. Conductor: Weisbach. Bobbe (Pfte.). Concerto grosso, No. 8 (Corelli). Pfte. Concerto (Mozart). Variations and Fugue on a Theme of Mozart (Reser). 7.15—Mozart Opera Music—Leipzig Symphony Orchestra. Conductor: Weber. Irma Balke (Soprano), Horand (Baritone). 8.30—Variety. EmDe Orchestra and Soloists. Conductor: Slavik. 10.0-12.0 m't—Act III, "The Mastersingers"—Opera (Wagner), on Records.

LILLE (Radio PTT Nord) (France)
1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.50 a.m.
6.30 p.m.—News. 7.30—Records. 7.45—Song Records. 8.0—Film Records. 8.30—Station Orchestra. Conductor: Soret. Rucart and Mme. Landry (Songs). 10.30—News; Weather.

MONTE CENERI (Switzerland)
1,167 kc/s (257.1 m.); 15 kW. No Transmission.
MOSCOW (No. 1) (Russia)
174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m.
2.15 p.m.—For Children. 3.0—

News. 3.13. Records. 5.20—Gilinsky (Pfe.). 5.45—Poems (Béranger). 6.30—Woman in Soviet Literature—Readings. 8.0—Programme in Czech: (a) Talk: Peace on Earth. (b) Questions and Answers. 8.55—Chimes. 9.5—Programme in English: Youth Broadcast: "The Wonderful Alloy"—Play (Kirschon). 10.0—Talk in German: "Figures of the Past—the Patroness."

MUNICH (Germany)
740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
Transmits at intervals from 5.0 a.m. 11.0 a.m.—Military Band. 12.0—Orchestra. 1.0 p.m.—For Children. 1.45—Folk Play (Fey). 2.15—Lemberty (Soprano), Bernd (Contralto). 2.40—Christmas in Nürnberg—Sketch (Bauer). 3.0—Scenes from a Nativity Play (Weitnauer). Music by Herre. 4.30—Balalaika Recital by Mischa Ignatieff. 4.45—Hymnen an das Reich (Rehberg). 5.5—"The Mastersingers"—Opera (Wagner), from the National Theatre. Conductor: Furtwängler. In the interval at 6.25: Christmas Talk, and at 7.45: "Nächtliche Fahrt in den Winter" (Stieler). 10.0-11.0—See Deutschlandsender.

OSLO (Norway)
260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 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.).
Transmits at intervals from 10.30 a.m. 4.0 p.m.—Records. 4.40—Talk. 5.0—Sacred Music. 5.30—Programme from Bergen. 6.15—News. 6.30—"A Christmas Carol"—Play (Dickens). 7.45—Station Orchestra. Conductor: Kramm. Overture, "Tannhäuser" (Wagner). Selection, "Boris Godunov" (Mussorgsky). The Golden Calf, from "Faust" (Gounod). Suite, "Carmen" (Bizet). In the interval at 8.0: Reading. 8.50—News. 9.0—Topical Talk. 9.15-10.0—Station Orchestra (contd.). Intermezzo (Mascagni). Excerpts, "Figaro" (Mozart). Selection, "Eugen Onegin" (Tchaikovsky). Aftenlandskap (Halvorsen). Piece (Svendens). Selection, "Sigurd Jorsalfar" (Grieg).

PARIS (Eiffel Tower) (France)
1,456 kc/s (206 m.); 20 kW.
6.30 p.m.—Reading. 6.45—Music Talk. 7.0—News; Weather; Racing. 7.20—Foreign Affairs. 7.45—Records. 8.0—Home Affairs.
8.30-10.0—Sacred Music. Maria Branèze and the Joan of Arc Choir. Address by the Abbé Brun. Ave Verum and Panis Angelicus (Saint-Saëns). Bone Pastor (Brun). Ave Maria (de Périn, Mouton, Saint-Saëns, Brun). Old Carols (arr. Brun): (a) Le Messie est né, (b) Esprits divins, (c) Noël d'Auvergne. Sixteenth Century Carol (Coustey). Entre le boeuf et l'âne gris (Brun). Les bergers à la crèche (Berlioz). Carols (Cras). Nunc dimittis (Bordes). Angelus (de Séverac). Agnus Dei (Widor). Cantate Domino (d'Indy). Laudetur (de Périn). Tollite Hostias (Saint-Saëns). In the interval: News.

PARIS (Poste Parisien) (France)
959 kc/s (312.8 m.); 60 kW.
8.0 a.m.—Press Review. 8.25—Announcements. 8.33—Records of Joost Orchestra. 8.54—Talk: Ski-ing. 8.59—Cookery. 9.0—Press Review. 9.30—Christmas Mass from the Montmartre Basilica. 12.0 noon—For Children. 12.25 p.m.—An Interview. 12.35—Records. 12.45-2.0—Dance Music by Lewis Jazz Band. 6.15—Children's Corner (Debussy) on Records. 6.35—Topical. 6.42—Record. 6.45—Topical. 6.52—Records of Marek Weber's Orchestra. 7.5—News. 7.22—Talk. 7.25—Aviation. 7.32—Records of Yvette Guilbert. 7.47—Talk. 7.52—Records of Jean Lumiere. 8.20—Concert. 8.50—Talk. 9.10—Variety. 9.45—News. 10.0—Raymond Gottfried Orchestra. 10.30-11.0—Records of Light Music.

PARIS (PTT) (France)
695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.50 a.m. 11.0 a.m.—Pascal Orchestra. Waltz, Je t'aime (Waldteufel). Excerpt, "No, no, Nanette" (Youmans). Tango (Zetterquist). Seguedillas (Santis). Anenione (Siede). Excerpt, "Fortunio" (Messenger). Camouflage (Lampers). Le petite pâtissier (Raymond). Bella Venetia (Schul-

burg). Little Man you've had a Busy Day (Wayne). La deuxième petite poupee (Gervasio). La moulou qui chante (Bols). The Glow-worm Idyll (Siede).
12.0 noon—Thérèse Mario (Carols).
12.15 p.m.—Derveaux Band. Excerpts, "L'Arlesienne" (Bizet). Children's Suite (Ansell). Noël (Adam). The Nursery Suite (Inghelbrecht). Selection, Les millions d'Arlequin (Drigo). Le Cygne (Saint-Saëns). Noël (Holmes). Alsation Dances (Levadé). Campana a sera (Billi). Old French Tunes (Broustet). Le coucou (Daquin). Marche Lorraine (Ganne). In the interval at 1.0: Sports.

2.0—Dramatic Programme: (a) "Le Noël d'Alix Pourcelet"—One-Act Play (Germain), (b) "Noël Vautour"—Sketch (Germain), (c) "Une nuit de Noël"—Sketch (d'Estrac-Vermeil). 3.0—Concert. 4.30—For Children. 5.0—Padeloup Concert Orchestra. Conductor: Tomasi. Verroust (Tenor). Aria in the Old Style (Pons). Carillon, "L'Arlesienne" (Bizet). Le sommeil de l'Enfant Jésus (Busser). Dans la cathédrale, "Symphonie Légendaire" (Godard). Le Légende du Point d'Argentan (Fourdrain). Pastorale (Franck).



Hungarian children acting the story of the shepherds and the three kings

5.30—Christmas Carols by Maud Laury and Sonia Aalny. Nous étions trois bergerettes (arr. Yvette Guilbert), (b) Quand Dieu naquit à Noël (arr. Tiersot). Le Noël des petits Santons (Ackermans). Noël Provençal (arr. Tiersot). Chanson pour Noël (Rhené-Baton). Two Old Carols (arr. Roques): (a) Dans cette étable, (b) Venez bergers. La veille de Noël (Jaques-Dalcroze). Voici le Noël (arr. Février). Carol (Mendelssohn).
6.0—Padeloup Concert Orchestra (contd.). Hymn for Strings (Haydn). Au Bois Sacré (Le Boucher). Overture, "Faust" (Gounod). Three Carols (Dupré, Fauré, Franck). 6.30—News; Review. 7.30—Weather.
7.38—Padeloup Concert Orchestra (contd.). Meditation for Violin and Orchestra (Gigout). Pastorale, "Le Jongleur de Notre-Dame" (Massenet). Cortège nocturne (Lazari). Pieces for Strings (Dubois): (a) Notre-Dame de la Mer, (b) Petits rêves d'enfants.

8.0—Variety. 9.0—Christmas Programme from the Salle Pleyel by Ray Ventura and his Colleagues, Jeanne Aubert and Colline. Fantastique (Misraki). La petite île (Nohain). Une hirondelle (Tranchant). La chanson en couleurs (Tranchant). Chez moi (Misraki). La dernière nuit d'amour (Gardoni). Solitude (Ellington). J'aime à chanter au bord de l'eau (Neuville). Fais-moi valser (Borel-Clerc). Humorous Songs: (a) Tout va très bien (Misraki), (b) C'est ce qui fait son charme (Ventura), (c) Les trois Mandarins (Misraki-Goupil), (d) Quand un vicomte (Nohain). Five Songs (Colline): (a) Fais-le ou ne le fais pas, (b) Leurs adieux, (c) Pourquoi ce ça dure, (d) Quand c'est aux autos de passer, (e) C'est formidable quand même. Le bateau ivre (Sauvat-Chagrin). Suite cubaine (Rainger, arr. Misraki). Lasciatu amare (Leoncavallo). Selection, "Mariska" (Lehár). Ton doux sourire (Ray). Sans toi j'ai du chagrin (Barera). Je t'aime c'est tout (Gardoni). Pour toi Madona (Neuville). Film Song Potpourri (Misraki). American Songs: (a) Broadway Rhythm, (b) Why Dream, (c) I've got a Feeling you're fooling. 10.30—News. 10.45—Adison Dance Band.

PARIS (Radio-Cité) (France)
1,068 kc/s (280.9 m.); 0.8 kW. Transmits at intervals from 9.0 a.m. 3.0 p.m.—Dramatic Programme. 3.30—Football Match Report. 3.45—Records. 4.0—Sports Report. 4.15—Song Records. 4.30—Sports Report. 4.50—Records. 5.0—Sports Report. 5.30—"Round the World in Sixty Minutes"—Records. 6.30—Song Records. 6.45—Racing. 7.0—News. 7.10—Topical. 7.45—Cinema Organ Records. 7.55—Musical Programme. 8.15—Variety. 8.45—Christmas Programme. 9.0—Theatre Relay. In the interval at 10.0—News. 11.45-12.30 a.m. (Thursday)—An Evening in Harlem. In the interval at 12.0 m't—News.

PARIS (Radio-Paris) (France)
182 kc/s (1,648 m.); 80 kW.
7.0 a.m.—Records: In the interval at 7.15: Time. 7.45—Gym. 8.0—Records. 8.30—Derveaux Jazz Band. 11.0—Light Music. Conductor: Mangert. 12.0 noon—Revel (Organ). 12.30 p.m.—Religious Address. 12.50—News. 1.0—Light Music. Conductor: Mangert. Mme. Blin (Songs). 2.0—

Bilboquet Programme. 2.15—"Noël avait oublié"—Sketch (Calmes-Vargues). 3.0—For Children. 4.0—"Adam and Eve"—Play with Music (Cohen-Chailley). 5.0—Marthe Daumont and Priolet (Songs). Ma chaumière (Mario). Sur les cimes neigeuses (Danery). Bonhomme Noël (Roger-Favel). La vieille cheminée (Dommel, Berneld-Demoullins). Sa mère (Boyer-Ackermans). Le rouet de grand-mère (Martel-Gavel). Noël des gueux (Baron-Mortreuil-Vargues). Noël d'amour (Dommeil-Vally-Desmoullins).
5.30—Padeloup Concert Orchestra. Conductor: Vuillemoz. Verroust (Tenor). Excerpts, Christmas Oratorio (Saint-Saëns). Excerpt, "Scènes Bretonnes" (Ropartz). Two Pieces (Léagey): (a) O divin enfant, (b) Dans les ombres de la nuit. Excerpts, Christmas Oratorio (Bach).
6.0—Reading (Anatole France).
6.30—Padeloup Concert (contd.). Symphonic Poem, Rédemption (Franck). Pastorale from the Christmas Oratorio (Bach). Excerpts, "The Messiah" (Handel). Two Pieces (d'Indy): (a) Sauge fleurie, (b) La quête de Dieu.
7.30—"A Modern Christmas"—Sketch (Arnoult).
8.0—Christmas Concert by "Le Campanile" Choir, and Orchestra. Conductor: Noyon. La nuit de Noël, for a capella Choir (Debussé). An Old Carol, Salut, o Sainte Crèche for Choir and Orchestra. Carol. Il est né le divin enfant, for a capella Choir. Popular Song. Adeste fideles, for Soloist, Choir and Orchestra. Carol. En cette nuit, for a capella Choir. Pastorale de la Nativité, for Soloist, Choir and Orchestra (Noyon). Old Carol, Le sommeil de Jésus, for a cape la Choir. Chant de triomphe for Choir and Orchestra (Noyon).
8.30—Press Review. 8.45—"The Cricket on the Hearth"—after Charles Dickens (Music by Massenet). Orchestra. Conductor: Tomasi. Cast: MM. Worms, Levesque, Lurville, Larzac, Lafitte, Colin, Mmes. Tossy, Fernel, Lory, Lukas. 10.45-12.15 a.m. (Thursday)—Dance Music and Light Music by the Chaplier Orchestra.

PRAGUE (Czechoslovakia)
638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.45 a.m. 8.15 p.m.—Christmas Oratorio (Schütz). Station Orchestra and Choir. Conductor: Modr. Viola Ensemble, Michl (Organ). 9.0—News; Sports; Records. 9.20—News; Sports (German). 9.25—Records. 9.30-10.30—Light Orchestra.

RADIO-NORMANDIE (France)
1,113 kc/s (269.5 m.); 15 kW.
7.0 a.m.—Records; News. 8.0—Records. In the interval at 8.15: Time. 9.0—Time; Orchestra. 9.15—Light Music. 10.0—Mass from Rouen Cathedral. 12.0—Music. 3.30—Concert. 4.0—Christmas Tea-Time Hour. 4.45—Children's Corner. 5.0—Comedy Music. 5.15—Musical Comedy Memories. 5.30—Carillon Recital from Rouen Cathedral. 6.0—For Children. 6.45—News. 9.5—Christmas Concert. 11.0-2.0 a.m. (Thursday)—Dance Music. In the interval at 12.30: Time.

ROME (Italy)
713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.).
Transmits at intervals from 7.35 a.m. 6.0 p.m.—Announcements; Tourist Talk. 6.20—News (English, French). 7.5—News. 7.30—"La reginetta delle rose"—Operetta in Three Acts (Leoncavallo). Conductor; Gallino. In the intervals; Talk; News. After the Operetta, News.

SOTTENS (Switzerland)
677 kc/s (443.1 m.); 25 kW. Relayed by Geneva, 401 kc/s (748 m.).
8.40 a.m.—Chimes. 8.45—Protestant Service. 10.0—Records. 11.30—News. 11.40-1.0 p.m.—Records. 1.40-3.10—Commentary on the International Ice-Hockey Match at St. Moritz. 3.30—French Music. 4.0—Reading. 4.20—"Robinson Crusoe"—Pantomime (Ducray and Christine). 5.0—Cathedral Chimes. 5.15—Records: Vladimir Horowitz. 5.30—"La Fontaine's Animals"—Sound Pictures (Grolle and Zimmermann). 6.0—Dramatic Programme. 6.30—Christmas Programme. 7.0—Roman Catholic Mixed Choir, from La Chaux-de-Fonds. Conductor: Mattioli. Gregorian Chant: Puer Natus. Jubilate (di Lasso). Missa brevis (Gabrieli). Expectans (Mattioli). Old Carols (arr. Gevaert).
7.30—Christmas Poems. 7.45—Concert. Radio Suisse Romande Orchestra. Conductor: Haug. Mme. Werner St. Gall (Harp). De Francesco (Flute). Part I. Mozart. Flute and Harp Concerto. Adagio and Rondo for Musical Glasses, Flute, Oboe, Viola and Cello. 8.20—News. 8.30—Concert (contd.). Part II. Schubert. Unfinished Symphony. Ballet Music and Overture, "Rosamunde."

STOCKHOLM (Sweden)
704 kc/s (426.1 m.); 55 kW. Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.).
Transmits at intervals from 6.20 a.m. 10.0 a.m.—Service. 11.40—News. 12.15 p.m.—Scandinavian Inter-Relay (for details, see Kalundborg). 1.0—Christmas Music. 1.45—For Children. 3.0—Göteborg Chamber Orchestra. Conductor: Mann. 4.0—Weather. 4.5—Reading. 4.30—Records. 5.0—Service from Kristinehamn. 6.15—News. 6.30—For Swedish Nationals abroad. 7.15—"Markurells in Wadköping"—Comedy (Bergman). 8.55—Weather. 9.0-10.30—"Swedish Pictures"—Potpourri for Soloists, Choir and Orchestra. Conductor: Grevillius.

STRASBOURG (France)
859 kc/s (349.2 m.); 120 kW. Transmits at intervals from 7.0 a.m. 12.0 noon—Orchestra. Roskam (Cello). 12.45 p.m.—News. 1.0—Christmas Programme. 1.45—Christmas Stories in Alsatian Dialect. 3.15—For Children, from Paris (Radio-Paris). 4.0—Pfe.: Harmonium. 4.30—Christmas Records. 5.30—Orchestra. Conductor: de Villers. Overture, "Si j'étais Roi" (Adam). Suite, "Le Roi s'amuse" (Delibes). Selection, "Le Roi malgré lui" (Chabrier). Ballet Music, "Le Roi de Lahore" (Massenet).

WEDNESDAY (December 25)

6.10—See Vienna. 7.40—News. 7.55—News (German). 8.10—Press Review (German). 8.30—"The Christ-Child in Flanders"—Nativity Play after Timmermans (Jacobs), with Musical Illustrations.
STUTTGART (Germany)
574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 1.0-9.30 p.m.—See Frankfurt. 9.30—See Cologne. 10.0—See Deutschlandsender. 11.0-1.0 a.m. (Thursday)—See Frankfurt.

TOULOUSE (Radio-Toulouse) (France)
913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 6.0 p.m.—Orchestra. 6.15—Songs. 11.0 a.m.—Orchestra. 6.45—News 6.50—Opera Arias, 7.5—Concert. 7.27—Orchestra 7.30—News. 7.45—Talk by Sir Eric Thomas. 7.50—Operetta Music. 8.15—Light Music. 8.30—Variety. 8.50—"Manon"—Opera (Massenet) in the interval at 10.30: North African News. 11.45—Orchestra. 12.0 m't—Light Music. 12.15 a.m. (Thursday)—News. 12.20-12.30—Marches.

TURIN (No. 1) (Italy)
1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.).
Transmits at intervals from 7.35 a.m. 3.45 p.m.—Relay from Asmara. 4.0—News. 4.15—Records. 4.30—Concert relayed from the Augusto. 4.55—Weather. 5.0—Markets. 5.35—Announcements; Talk. 6.0—News in Foreign Languages. 7.5—News. 7.30—"I tre sentimental"—Comedy in Three Acts (Camasio and Oxilia); Dance Music. 9.30—News. 9.40—News (Spanish).

VIENNA (Austria)
592 kc/s (506.8 m.); 100 kW. Relayed by Graz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Dornbirn, Klagenfurt, Linz and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.).
Transmits at intervals from 7.0 a.m. 3.5 p.m.—"Der Rosenkavalier"—Opera (Strauss) on Records. 5.0—The State Prizes for Art, Literature and Music. 6.0—Announcements. 6.10—"Vom Bisamberg in alle Welt"—Radio Potpourri (Riedinger), from the Musikvereinssaal. 7.40—Vienna Philharmonic Orchestra. Conductor: Weingartner. Symphony in E flat (Mozart). Les Préludes (Liszt). Siegfried Idyll (Wagner). Overture, "Tannhäuser" (Wagner). 9.0—News. 9.10—Dance Music. 11.15-12.0 m't—Viennese Music—Machek Quartet.

WARSAW (Poland)
224 kc/s (1,339 m.); 120 kW. Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Łódź, 1,339 kc/s (224 m.); Lwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.).
Transmits at intervals from 8.0 a.m. 2.0 p.m.—The Village in a Hundred Years' Time—Variety. 3.0—For Children. 4.0—Dance Music. 5.0—For Children: The History of the First Christmas Tree. 5.30—Records: Christmas Carols of Many Lands. 6.45—Announcements. 7.0—For Soldiers.

7.30—Ada Sari (Songs). Aria "The Legend of the Baltic" (Nowowiejski). Arias, "Louise" (Charpentier), "Tales of Hoffmann" (Offenbach). Girometta (Sibella). Mal d'amore (Buzzi-Peccia). French Serenade (Leoncavallo). Waltz, "Coppelia" (Delibes). Princisita (Padilla). The Blue Danube (Strauss).
8.0—Chopin Recital by Sztompka (Pfe.) and Szelimsky (Soprano). Mazurkas in: (a) B flat, (b) E minor, (c) C. Polonaise in C sharp minor. Songs: (a) Le député, (b) Chanson lithuanienne, (c) Ma mignonne. Polonaise in E flat minor. Mazurkas in (a) A flat, (b) A minor.
8.35—Talk with Records. 8.50—Station Dance Band 10.0—Dance Records.

THURSDAY Dec. 26

3 p.m.

BERLIN, See Königsberg. **BRESLAU**, See Königsberg. **COLOGNE**, See Deutschlandsender. **DEUTSCHLANDSENDER**, Records. **FRANKFURT**, See Königsberg. **HAMBURG**, See Königsberg. **HILVERSUM** (1,875 m.), Orchestra Records. **HILVERSUM** (301.5 m.), Oboe, Christmas Tale. 3.40—Play. **KALUNDBORG**, Petersen Orchestra. **KÖNIGSBERG**, Orchestra. **LEIPZIG**, See Königsberg. **LILLE**, For Children, Exchange. **MOSCOW**, News, Records. **MUNICH**, See Königsberg. **OSLO**, 3.30—Concert. **RADIO-NORMANDIE**, Variety, Trumpet, Light Music. **RADIO-PARIS**, Records, Talk, Reading. **SOTTENS**, 3.30—Orchestra. **STOCKHOLM**, Records. **STRASBOURG**, "Hansel and Gretel"—Fairly Opera (Humperdinck). **STUTTART**, See Königsberg. **WARSAW**, Inter-Relay (cont'd.), 3.30—Trio Concert, Christmas Poems.

4 p.m.

BERLIN, See Königsberg. **BEROMÜNSTER**, Talk, Weihnachtsmärchen (Conrad). **BRESLAU**, See Königsberg. 4.30—Comedy. **BUCHAREST**, Small Station Orchestra. **COLOGNE**, See Deutschlandsender. **DEUTSCHLANDSENDER**, Records. **EIFFEL TOWER**, 4.30—Poetry. **FRANKFURT**, See Königsberg. **HAMBURG**, Christmas Fairy Tales and Legends—Concert. 4.50—"Afternoon"—Play with Music. **HILVERSUM** (1,875 m.), Records, Christmas Programme. **HILVERSUM** (301.5 m.), Play (cont'd.), 4.30—Records, Orchestra. **KALUNDBORG**, Service from Christiansborg Castle Church. **KÖNIGSBERG**, Orchestra. **LEIPZIG**, See Königsberg. 4.20—"Winter Camp"—Play (Alverdes) (Records). **LILLE**, Orchestra. **MOSCOW**, 4.30—Songs of 1905. **MUNICH**, See Königsberg. **OSLO**, Concert 4.35—Readings, Service. **PARIS (PTT)**, Talk, Reading, Unpublished Music. **RADIO-NORMANDIE**, Tea-Time Hour, Children's Corner. **RADIO-PARIS**, See Lille. **SOTTENS**, Songs, Dance Band. **STOCKHOLM**, For Children, 4.45—"Christmas in Europe"—Records. **STRASBOURG**, "Hansel and Gretel" (cont'd.) **STUTTART**, See Königsberg. **VIENNA**, 4.25—p.m.—Viennese Music. **WARSAW**, Christmas Poems, Variety, Dance Records.

5 p.m.

ATHLONE, 5.30—For Children. **BERLIN**, Music, Sports. **BEROMÜNSTER**, Weihnachtsmärchen (Conrad) (cont'd.), Talk. **BRESLAU**, Comedy (cont'd.). **BRUSSELS (1)**, Light Orchestral Music, with Cello Solos. **BRUSSELS (2)**, Mediaeval Christmas Carols of the Netherlands, Play. **BUCHAREST**, Talk, Orchestra (cont'd.). **BUDAPEST (1)**, 5.15—Talk, Dance Music. **COLOGNE**, Christmas Sequence, 5.45—Contralto, Violin, Viola, Pftes. **DEUTSCHLANDSENDER**, Sketches. **EIFFEL TOWER**, Exchange, Markets. **FRANKFURT**—See Stuttgart. **HAMBURG**, "Afternoon" (cont'd.), 5.25—Mozart Recital, Weather. **HILVERSUM** (1,875 m.), Christmas Programme (cont'd.), 5.10—Organ, Records. **HILVERSUM** (301.5 m.), Orchestra (cont'd.), 5.25—Records. **KALUNDBORG**, Service (cont'd.), Talk, Weather. **KÖNIGSBERG**, Little Things that please. **LEIPZIG**, "Winter Camp" (cont'd.), 5.20—Vocal and Instrumental Chamber music. **LILLE**, Exchange, Talk. **MOSCOW**, 5.20—Songs. **MUNICH**, Loewe Ballads and Pftes. Music, Mandoline Quartet. **OSLO**, Service. **PARIS (PTT)**, For Children, News, Records. **RADIO-NORMANDIE**, Dance Music, Strauss Waltzes, Variety Records. **RADIO-PARIS**, "Amphitryon" (Molière).

SOTTENS, Viennese Operetta Records, For Children. **STOCKHOLM**, Records, Talk. **STRASBOURG**, "Hansel and Gretel" (cont'd.), Alsatian Programme for Children. **STUTTART**, Report, 5.30—Variety. **VIENNA**, Viennese Music (cont'd.). **WARSAW**, Dance Records.

6 p.m.

ATHLONE, For Children, Records, News. **BERLIN**, Play. **BEROMÜNSTER**, News, "A Christmas Toy"—Sequence (Welti). **BRESLAU**, Comedy (cont'd.), Sports. **BRNO**, 6.10—Carols, "Moravian Legend"—Play (Bystrina). **BRUSSELS (1)**, For Children, Talk, Violin and Pftes. Records. **BRUSSELS (2)**, Play (cont'd.), 6.15—Radio Orchestra and Flute. **BUCHAREST**, Weather, News. 6.15—Jazz Band. **BUDAPEST (1)**, Dance Band. 6.50—"A Christmas Carol."

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

P.M.
1.40 Hilversum (301.5 m.): German carols.
SYMPHONY CONCERTS
7.55 Hilversum (301.5 m.): Elman and Orch.
8.10 Strasbourg: Saint-Saëns.
LIGHT CONCERTS
12.55 Hilversum (301.5 m.): Lajos Orchestra.
2.10 Hilversum (1,875 m.): The Arnheim Orchestra.
4.40 Hilversum (301.5 m.): Light orchestra.
7.25 Turin: Operetta music.
7.30 Poste Parisien: Orchestra, songs.
8.0 Brussels 1: Light orchestral.
8.0 Brussels 2: De Boeck, (9.0): Gilson.
8.0 Bucharest: Military band.
8.10 Beromünster: Christmas concert.
8.30 Sottens: Orchestra, xylophone.
8.55 Budapest 1: Popular orchestral.
9.45 Radio-Paris, Strasbourg (10.30): National Orchestra, saxophone.
10.0 Budapest 1: Cigany Band.

OPERAS

6.30 Prague: "Don Carlos" (State Opera).
7.0 Berlin: "Turandot."
7.30 Rome: "Iris" (Mascagni).

OPERETTAS

7.0 Oslo: "Queen for a Day" (S. H. Bull).
8.0 Warsaw: "Blue Mazurka" (Lehár).

COLOGNE, Contralto, Violin, Viola, Pftes. (cont'd.), Talk.
DEUTSCHLANDSENDER, Records, Sports.

EIFFEL TOWER, 6.30—Talk, Theatre Review.

FRANKFURT, See Stuttgart, Sports.
HAMBURG, Call of Youth, 6.10—Mandoline Band and Mouth Organ Band. **HILVERSUM** (1,875 m.), Records. 6.25—Orchestra. **HILVERSUM** (301.5 m.), Records, Talk, Records.

KALUNDBORG, News, Sports Notes, Talk. **KÖNIGSBERG**, Christmas Music.

LEIPZIG, Vocal and Instrumental Recital 6.10—"Gustav, Emil und die Bratäpfel"—Christmas Play (Kuhnert) with Music. **LILLE**, Talk, News, Review.

MONTE CENERI, Records, Italian Lesson. 6.30—Weber Records, News. **MOSCOW**, 6.30—Two Pftes. and Songs. **MUNICH**, "Old Bavarian Christmas"—Sequence (Huber).

OSLO, Service, News, 6.30—Songs (Sinding).

PARIS (PTT), Records, News-Exchange, Talk, For Children, Records of Children. **PRAGUE**, News, Sports, Talks. 6.30—"Don Carlos"—Opera (Verdi).

RADIO-NORMANDIE, For Children, News. **RADIO-PARIS**, Play (cont'd.), Medical Talk. **ROME**, Announcements, Talks, News.

SOTTENS, Talk, Chamber Music-Records, Talk, Weather. **STOCKHOLM**, Talk, Weather, "Mamzelle Nitouche"—Operetta (Hervé). **STRASBOURG**, Alsatian Programme (cont'd.). **STUTTART**, Variety.

TOULOUSE, Exchange, Orchestra, For Children, News—"La Bonne Année"—Guignol. **TURIN**, News in Foreign Languages.

VIENNA, News, Viennese Music (cont'd.), Humorous Programme. **WARSAW**, Announcements. 6.10—Christmas Carols by a Children's Choir.

7 p.m.

ATHLONE, "Cinderella," Pantomime. **BERLIN**, "Turandot" (Puccini). **BEROMÜNSTER**, Sequence (cont'd.), Talk. **BRESLAU**, News. 7.10—Variety from Königsberg.

BRNO, Play (cont'd.), Orchestra. **BRUSSELS (1)**, For-Workers, Song Records, Literary Review. **BRUSSELS (2)**, Christmas Message. 7.15—Caruso Records, News. **BUCHAREST**, Talk, Choir, Announcements. **BUDAPEST (1)**, "A Christmas Carol" (cont'd.).

COLOGNE, Talk, 7.30—"Christmas Candles"—Tenor, Children's Choir, Pftes. Quartet.

DEUTSCHLANDSENDER, Dance Bands. **EIFFEL TOWER**, News, Foreign Politics, Singing Lesson.

FRANKFURT, See Deutschlandsender. **HAMBURG**, "Clivia"—Operetta (Dostal). **HILVERSUM** (1,875 m.), Orchestra (cont'd.), Press Review, Service. **HILVERSUM** (301.5 m.), Records, Trio, News. 7.55—Mischa Elman and Orchestra.

OSLO, 7.30—"Christmas Candles"—Tenor, Children's Choir, Pftes. Quartet.

DEUTSCHLANDSENDER, Dance Bands. **EIFFEL TOWER**, News, Foreign Politics, Singing Lesson.

FRANKFURT, See Deutschlandsender. **HAMBURG**, "Clivia"—Operetta (Dostal). **HILVERSUM** (1,875 m.), Orchestra (cont'd.), Press Review, Service. **HILVERSUM** (301.5 m.), Records, Trio, News. 7.55—Mischa Elman and Orchestra.

CHAMBER MUSIC

5.20 Leipzig: Miscellaneous programme.
7.0 Kalundborg: Oboe Quartet (Mozart).
7.10 Hilversum (301.5 m.): Trio.
7.30 Cologne: Quartet, choir, songs.
8.40 Turin: Eiar Quartet.
9.30 Munich: Quartets, Brahms songs.

RECITALS

5.45 Cologne: Christmas music.
6.30 Oslo: Sinding songs.
7.0 Warsaw: Michalowski pftes. music.
8.0 Radio-Paris: Richepin programme.
8.30 Paris (PTT): Old French successes.
9.10 Hilversum (301.5 m.): Palla (organ).
9.10 Vienna: Elisabeth Schumann.

PLAYS

5.0 Radio-Paris: "Amphitryon" (Molière).
6.50 Budapest 1: "A Christmas Carol."
8.30 Regional: A Christmas Carol.
8.45 Radio-Paris: A Molière play.
DANCE MUSIC
7.0 Deutschlandsender, Leipzig; 7.40, Kalundborg; Young Folks' Ball; 9.0, Stockholm; 9.15, Warsaw; 9.35, Monte Ceneri; 10.0, Oslo; 10.10, Regional; 10.50, Hilversum (301.5 m.); 11.15, National; 12.0, Radio-Normandie.

MISCELLANEOUS

4.45 Stockholm: "Christmas in Europe."
7.0 Athlone: "Cinderella," pantomime.
8.30 Brussels 1: Cabaret.

KALUNDBORG, Oboe Quartet (Mozart), Songs. 7.40—Preil's Radio Dance Band. **KÖNIGSBERG**, Variety.

LEIPZIG, See Deutschlandsender. **LILLE**, Review, Records, Polish Programme.

MONTE CENERI, Students' Songs (Records). 7.20—"Addio Giovenezzo"—Play. **MOSCOW**, Pftes. (cont'd.). **MUNICH**, Sequence (cont'd.). 7.10—Sequence with Music.

OSLO, "Queen for a Day"—Operetta (Bull).

PARIS (PTT), News, Talk, Weather, Records. **PARIS (Radio-Cité)**, Racing Notes, News, Topical Reviews, Records. **POSTE PARISIEN**, Sports Notes, News. 7.30—Orchestra and Songs. **PRAGUE**, "Don Carlos" (cont'd.).

RADIO-NORMANDIE, Variety. **RADIO-PARIS**, For Children, Talk, Eighteenth Century Poems. **ROME**, News, Records. 7.30—"Iris"—Opera (Mascagni).

SOTTENS, Songs by René Bersin and his Company. **STOCKHOLM**, "Mamzelle Nitouche" (cont'd.). **STRASBOURG**, Alsatian Programme (cont'd.), News (French and German). **STUTTART**, See Deutschlandsender.

TOULOUSE, Operetta Music, Orchestra, News, Film Music. **TURIN**, News. 7.25—Operetta Music. In the interval, Announcements.

VIENNA, "Ihr Korporal"—Operetta (Millöcker).

WARSAW, Michalowski Recital (Pftes.), Popular Programme, News.

8 p.m.

ATHLONE, Variety Programme in Irish. 8.30—Mummers and Wren Boys. **BERLIN**, "Turandot" (cont'd.), 8.50—News. **BEROMÜNSTER**, News. 8.10—Christmas Concert.

BRESLAU, See Königsberg. **BRNO**, Orchestra, Talk. 8.30—Variety, News. **BRUSSELS (1)**, Orchestra and Vocal Quartet. 8.30—Cabaret. **BRUSSELS (2)**, De Boeck Concert and Violin, Oboe and Soprano Solos, Talk. **BUCHAREST**, Military Band, Sports Notes, News, Military Band. **BUDAPEST (1)**, "A Christmas Carol" (cont'd.), News, 8.55—Popular Orchestral.

COLOGNE, Christmas Candles (cont'd.). **DEUTSCHLANDSENDER**, Dance Bands.

EIFFEL TOWER, Home Politics, 8.30—Songs, Pftes. Recital. **FRANKFURT**, See Deutschlandsender. 8.30—See Stuttgart.

HAMBURG, "Clivia" (cont'd.). **HILVERSUM** (1,875 m.), Service, Records. **HILVERSUM** (301.5 m.), Orchestra (cont'd.). 8.40—Christmas Puzzle.

KALUNDBORG, Dance Band (cont'd.), News. **KÖNIGSBERG**, Variety.

LEIPZIG, See Deutschlandsender. **LILLE**, Records, Orchestra.

MONTE CENERI, Play (cont'd.). 8.35—Hot Jazz Records. **MOSCOW**, German Programme. **MUNICH**, Sequence (cont'd.). 8.10—Scandinavian Sequence with Music.

EIFFEL TOWER, Records. **FRANKFURT**, See Stuttgart. **HAMBURG**, News, Christmas Music. **HILVERSUM** (1,875 m.), Records, 9.25—Bass and Organ Recital. **HILVERSUM** (301.5 m.), Christmas Puzzle (cont'd.), 9.10—Organ. 9.30—Orchestra.

KALUNDBORG, News, Film Music, Preil's Radio Dance Band. **KÖNIGSBERG**, News, Talk. 9.40—To be Announced.

LEIPZIG, News. 9.30—To be announced. **LILLE**, Orchestra. **MONTE CENERI**, Hot Jazz Records, Weather. 9.35—Dance Records.

MOSCOW, French Programme. **MUNICH**, News. 9.30—Contralto and Quartet.

OSLO, Talk. **PARIS (PTT)**, Old French Successes. **POSTE PARISIEN**, Concert, Variety. **PRAGUE**, "Don Carlos" (cont'd.). 9.45—Records, News, Sports (German), Records.

RADIO-NORMANDIE, Records, Waltzes, Light Music, Records. **RADIO-PARIS**, Comedy (cont'd.). 9.45—National Orchestra, with Saxophone. **ROME**, "Iris" (cont'd.), in intervals: Talks.

SOTTENS, Orchestra (cont'd.), Weather. **STOCKHOLM**, Dance Band. **STRASBOURG**, Saint-Saëns Concert (cont'd.). **STUTTART**, News, Records.

TOULOUSE, Fantasy, Potpourris, Excerpts, "Aida" (Verdi). **TURIN**, Chamber Music. 9.10—Dance Music, News.

VIENNA, News. 9.10—Elisabeth Schumann Recital, News. **WARSAW**, "The Blue Mazurka" (cont'd.). 9.15—Dance Records.

10 p.m.

ATHLONE, Variety, News, Light Music.

BERLIN, Orchestra. **BRESLAU**, Dance Band. **BRUSSELS (1)**, News. 10.10—Request Records. **BRUSSELS (2)**, News. 10.10—Request Records. **BUCHAREST**, Romanian Music. **BUDAPEST (1)**, Cigany Band.

COLOGNE, See Berlin. **DEUTSCHLANDSENDER**, Bands and Soloists.

FRANKFURT, See Berlin. **HAMBURG**, See Deutschlandsender. **HILVERSUM** (1,875 m.), Bass and Organ Recital (cont'd.). 10.25—Press Review, Records. **HILVERSUM** (301.5 m.), Orchestra, to be announced, News, 10.50—Dance Music.

KALUNDBORG, Dance Band (cont'd.). 10.15—Kjaer Dance Band. **KÖNIGSBERG**, See Berlin.

LEIPZIG, See Berlin. **LILLE**, Orchestra, News.

MOSCOW, Spanish Programme. **MUNICH**, Contralto and Quartet (cont'd.).

OSLO, Dance Records. **PARIS (PTT)**, Old French Successes, News. **POSTE PARISIEN**, Variety. **PRAGUE**, Records.

RADIO-NORMANDIE, Variety. **RADIO-PARIS**, National Orchestra (cont'd.). **ROME**, "Iris" (cont'd.), News.

STRASBOURG, Saint-Saëns Concert (cont'd.). 10.30—Concert from Radio-Paris. **STUTTART**, see Berlin.

TOULOUSE, Excerpts, "Aida" (Verdi) (cont'd.), Songs, News, Argentine Orchestra.

VIENNA, Wind Band. **WARSAW**, Weather, Dance Music.

11 p.m.

BERLIN, Dance Band. **BUDAPEST (1)**, News.

DEUTSCHLANDSENDER, Bands and Soloists. **FRANKFURT**, See Stuttgart.

HAMBURG, See Deutschlandsender. **HILVERSUM** (1,875 m.), Records. **HILVERSUM** (301.5 m.), Dance Music.

KALUNDBORG, Thomsen Dance Band from the National Scala. **LEIPZIG**, See Deutschlandsender.

RADIO-NORMANDIE, Variety. **RADIO-PARIS**, National Orchestra (cont'd.).

STRASBOURG, See Radio-Paris. **STUTTART**, Records.

TOULOUSE, Operetta Music, Dance Music, Songs, Marches. **VIENNA**, Wind Band. 11.20—Records.

12 midnight

FRANKFURT, See Stuttgart. **KALUNDBORG**, Eiberg Dance Band from the Ritz.

RADIO-NORMANDIE, Dance Music. **RADIO-PARIS**, National Orchestra (cont'd.).

STUTTART, Records. **TOULOUSE**, Light Music, News, Orchestra.

1 a.m. (Friday)

RADIO-NORMANDIE, Dance Music.

NATIONAL

For Time Signals, see Monday
10.15 a.m. (Droitwich)—Service.
10.30 (Droitwich)—Weather Forecast.
10.45—At Home Today.
11.5—Cinema Organ (Henry Croudson).

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 60 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.).
1.30-2.30 p.m.—Artane Band. 5.30—For Children. 6.15—Records. 6.45—News.
7.0—"Cinderella"—Pantomime (Harry O'Donovan), presented by Eva Brennan.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Munich. 1.0 p.m. Talk. 1.15-2.15—Kaufmann Band.
3.0—See Königsberg. 5.0—Chamber Music. 5.30—Sports.
6.0—Play after Rosegger (Fortner). 7.0—"Tarandot"—Opera (Puccini), from the Opera. In the interval at 8.50—News. 9.45—News.
10.0—Station Orchestra and Soloists. Conductor: Steiner.
11.0-12.0 m't—Berger Dance Band.

12.30 p.m.—Radio Orchestra. Conductor: Doulicz. Géodel (Baritone). Bonita (Mezzacapo). Songs: (a) Le temps des cerises (Renard), (b) Si vous l'aviez compris (Denza), (c) Chanson à boire (Delmet). Slow Foxtrot, Jours passés (Gebhardt). Comme une fleur (Faulk). Waltz, La valse des longues heures (Grillaert).

1.0 p.m.—News.
1.10—Radio Orchestra. Conductor: Doulicz. Géodel (Baritone). Violin: Czardas (Monti). Songs: (a) Griserie (Bosc), (b) Air, "Les millions d'Arlequin" (Drigo), (c) Valencia (Padilla). Waltz, Coeur de musette (Jardin).
1.30-2.0—Records. One-step, Joyeux fetards (Renel). Chez le rebouteux (Bach-Laverne). Selection, "Mother of Pearl" (O. Straus). Organ: Carolina moon (Davis). Pfte.: (a) Fancy our meeting, (b) Sweet so and so (Charig). Orchestra and Choir: Excerpts, "Venus auf Erde" (Lincke). Foxtrot, La petite gare (Elloy). 4.55—Announcements.
5.0—Orchestra. Conductor: Walpot. Derissen (Cello). C'est papa, c'est parisien (Oberfeld). Aoudo (Clouset). Marche joyeuse (Piercy). Romance for 'Cello and Orchestra (Bosmans). Saxophone: Orientale (Spork). Sarabande (Mouret)

(Jaroff). 'Cello: Réverie (Schumann). In a Monastery Garden (Ketelbey). Pfte.: La cathédrale engloutie (Debussy). Le crucifix (Faure). Aria, "La Bohème" (Puccini). 2.0—Shipping. 4.55—Announcements.
5.0—Mediaeval Christmas Carols of the Netherlands. Een kindje in ons gheboeren. Laet ons mit herten reyne. Het was een maghet utvercoren. Een Kint gheboeren in Bethlehem. Marie die soude near Bethlehem gaen. Herders, Hij is gheboeren. Comt herders. De herderkens. O Corydon siet hier den stal. 5.30—A Christmas Play (Crick).

6.15—Radio Orchestra. Conductor: Doulicz. Henri Magnée (Flute). Overture, "St. Paul" (Mendelssohn). Flute Concerto (Mozart). Siciliana (Pergolesi). Aria (Bach). Légende (Dvořák). Elégie (Andelhof). Prelude (O'Neil). 7.0—Christmas Message.
7.15—Caruso Records. Agnus Dei (Bizet). Dominus Deus (Rossini). Arias, "Martha" (Flotow), "I Pagliacci" (Leoncavallo). 7.30—News.

8.0—De Boeck Concert. Conductor: Meulemans. De Langhe (Oboe). Marguerite Thys (Soprano). Piet Steylacms (Violin). Cortège, "Les Gnomes du Rhin" Fantasia for Oboe and Orchestra. Six Songs. Andante, Violin Concerto. Scherzo and Finale, Symphony. 8.45—Talk: Dösel.

9.0—Gilson Concert. Conductor: Meulemans. Yvonne Struelens (Songs). Prélude matinal. Arias, "Gens de mer." Paraphrase on Flemish Folk Songs. Aria, "Prinses Zonneschijn." Excerpts, "La Mer." 9.55—Alma Redemptoris (Palestrina). 10.0—News.

10.10-11.0—Request Records. Ave Maria (Schubert). Bells across the Meadow (Ketelbey). Song: Adeste fidelis. Aria, "Lakmé" (Delibes). Serenade, "Lilac Time" (Schubert Berté) Alleluia, "The Messiah" (Handel). Song: La Paloma (Yradier). Aria, "Faust" (Gounod). Adagio, Ninth Symphony (Beethoven). Song L'angélus de la mer (Goublier). Barcarolle, "Tales of Hoffmann" (Offenbach).

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Transmits at intervals from 12.0 noon. 4.0 p.m.—Small Station Orchestra. In the interval at 5.0: Talk. 6.0—News. 6.15—Jazz Band. 7.0—Talk. 7.20—Choir. 7.50—Announcements. 8.0—Military Band. 8.30—News. 8.45—Military Band. 9.15-10.30—Romanian Music by the Luca Orchestra.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. 2.30—Band. 4.30—Choir. 5.15—Talk. 5.40—Dance Band. 6.50—"A Christmas Carol"—Play after Dickens (Belenyessy). Music by Polgar. 8.35—News. 8.55—Budapest Concert Orchestra. Conductor: Rajter. Primavera Hellenica (Stefaniai). Children's Corner (Debussy). Old Hungarian Dances (Sikós). Suite, "Louise" (Charpentier).
10.0—Pertis Cigány Band. 11.5—News.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Munich. 1.0-2.0 p.m.—Chamber Orchestra. Conductor: Hagedstedt. In the interval: Reading. 2.30—Talk: Ernest Moritz Arndt. 3.0—See Deutschlandsender. 5.0—Sequence about Christmas Trees and Christmas Customs. 5.45—Vocal and Instrumental Christmas Music. 6.30—Christmas in the Fields. 7.30—"Christmas Candles"—Anders (Tenor). Bielefeld Children's Choir, Delseit (Pfte.) and the Cologne String Quartet. 9.0—News. 9.30—To be announced. 10.0—See Berlin.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Leipzig. 1.0 p.m.—Cantata (Baumann). 1.30—"Shockheaded Peter"—Songs and Verse (Schultze). 2.0—Musical Sequence (Kleinberg-Sobanski). 3.0—von Gezy Band with Hilde Korber and Hörbiger (Songs), on Records. 5.0—"Grown-up Children"—Humorous Sketches with Music. 6.0—Sextet (Dohnányi), with the Composer (Pfte.), on Records. 6.30—Reports: (a) The Trotting Races at Berlin-Mariendorf, (b) Football Match. 7.0—von Gezy and Lutter Dance Bands, Marita Gründgens and Udo Vietz. 9.0—News. 9.20—Christmas Music (Dombrowski) by Schauss (Harmonium).
10.0-11.55—Dobrindt and Lutter Bands and Soloists.



Dream Pantomime from "Hänsel and Gretel," which Strasbourg broadcasts at 3 p.m.

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).
8.30 p.m.—Chorals by Ilona Durigo. 9.0—Roman Catholic Service. 9.45—Chamber Music. 10.30—Old Songs by the Nelly Wiget-Förster Choir. In the interval: Christmas Poems. 11.29—News. 11.40—Radio Orchestra. Conductor: Bernhard. 12.30 p.m.—Christmas Carols by the Pupils of the Bachenbühlach School. 1.30-2.0—Reading. 4.0—Talk: Christmas. 4.30—Weihnachtsmärchen (Conrad). Radio Orchestra and Soloists. Conductor: The Composer. 5.30—Talk: Social Relations. 6.0—Announcements. 6.15—"A Christmas Toy"—Sequence (Welti). 7.35—Talk: The Twelve Holy Nights amongst Heathen and Christians. 8.0—News. 8.10—Christmas Concert. Radio Orchestra. Conductor: Hofmann. Irmela. Keim (Songs). 9.15—Sports Notes.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.0 a.m. 11.0 a.m.—See Munich. 1.0 p.m.—News. 1.40—Band and Soloists. 2.30—Reading. 2.50—Talk. 3.0—See Königsberg. 4.30—"When the Cock Crows!"—Comedy (Hinrichs). 6.30—Sports. 7.0—News. 7.10—Variety from Königsberg. 9.0—News. 9.30-11.0—Dance Music.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.45 a.m. 6.10 p.m.—Carols. 6.30—"Moravian Legend"—Play (Bystrina). 7.30—Orchestra. 8.15—Talk: Christmas in Romania. 8.30—Variety. 8.55—News. 9.10—Variety (contd.). 9.45-10.30—See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; Gym.; News. 11.55—Weather; Announcements. 12.0 noon—Records. Selection, "White Horse Inn" (Stolz-Benatzky). Harp: Concert Etude (Godofroy). Songs: (a) L'indicateur de chemin de fer (Weill), (b) O sole mio (di Capua). Song Pot-pourri (Intrator). Au théâtre (Lacôme).

Tango, Mama (Semerini). Ain't no love (Bee). Foxtrot, Woyskow (Scher). Valsons encore (Metayer). L'adieu (Cambier). Walloon March (Ernotte). 5.45—For Children. 6.15—Talk: War or Peace.
6.30—Records. Sonata in C minor (Grieg) by Yvonne Astruc (Violin) and Marcel Ciampi (Pfte.). Persian Dances from "Khovanstchina" (Mussorgsky). 7.0—For Workers.
7.15—Song Records. Raiffeil: Aria, "Eugene Onegin" (Tchaikovsky). Chaliapin: Aria, "Russalka" (Dargomizsky). Rogatchewsky: Recitative and Cavatina from "Prince Igor" (Borodin).
7.30—Literary Review.
8.0—Orchestra. Conductor: Walpot. Villier Vocal Quartet. Les cadets de Picardie (Allier). Chal Romano (Ketelbey). Quartet: (a) Au clair de la lune (Lully), (b) Aime-moi bergère (Février), (c) C'est à boire (arr. F. de Bourguignon), (d) Berceuse, (e) J'ai perdu ma femme (arr. Dupuis).
8.30—"Le Grillon" Cabaret. 9.0—For Farmers.
9.15—Orchestra. Conductor: Walpot. Barnes (Bass). Si les femmes étaient soldats (Florendas). Variations musette (Bastien). Songs: (a) The Volga Boatmen (Chaliapin), (b) Le cor (Fléjery). Tango, Guitares d'amour (Milli). Pasodoble, La flor española (Miranda). Songs: (a) Aria, "Mephisto" (Boito), (b) Ol' man River (Kern). La valse à Antonin (Raiter). Rumba caliente (Bito). J'ai ma combine (Erwin).
10.0—News. 10.10-11.0—Records.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.37-9.0 a.m.—Gym; Records; News. 12.0 noon—Records. March (Rubens). Third Fantasia (Benoit). Marche grotesque (Sinding). Cloches au soir (Blauw). March and Foxtrot (Stolz). Selection, "Preciosa" (Weber). La ritirata italiana (Drescher). Amazons' Ride (Ritter). Entry of the Gladiators (Fucik).
12.31 p.m.—Orchestra. Conductor: Walpot. March, Metropole (Lincke). Overture, "Lysistrata" (Lincke). Waltz, Souvenir (Lincke). Records: Two Songs. Tarantella (Caludi). 1.0—News.
1.10—Siede Music. Conductor: Lincke. March, Fortuna. Intermezzo. Waltz, Enfants du dimanche.
1.30—Records. Stille Nacht. Aria, "The Huguenots" (Meyerbeer). Monotonously rings the Little Bell

THURSDAY (December 26)

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg, Kaiserslautern, and Trier, 1,195 kc/s (251 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Munich. 1.0-3.0 p.m.—See Stuttgart. 3.0—See Königsberg. 5.0-6.50—See Stuttgart. 6.50—Sports. 7.0—See Deutschlandsender. 8.30—See Stuttgart. 10.0—See Berlin. 11.0-1.0 a.m. (Friday)—See Stuttgart.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg and Stetin, 1,330 kc/s (225.6 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Munich. 1.0 p.m.—A Fairy Play. 2.0—Christmas Music by a Military Band from New York (Records). 2.35—Reminiscences of Christmas at the Front. 3.0—See Königsberg. 4.0—"Christmas Fairy Tales and Legends"—Stetin Concert Orchestra and Soloists. Conductor: Plato. 4.50—"Afternoon Nocturne"—Play with Music (Noack-Ilzenfeld). 5.25—Mozart Recital by Griem (Pfte.). Fantasia. Pastorale with Variations. Fantasia in C minor. 6.0—Call of Youth. 6.10—Stetin Mandoline Band, a School Mouth Organ Band. 7.0—"Clivia"—Three-Act Operetta (Dostal). Conductor: Maasz. 9.0—News. 9.30—Christmas Music by a Chamber Orchestra and Soloists. Sonatina (Busoni). Ein Kind ist euch geboren (Brüggemann). 10.0-12.0 m't—See Deutschlandsender.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 2.40 p.m.; 100 kW from 2.40 p.m. 8.10-9.10 a.m.—N.C.R.V. Programme: Religious Address; Tenor; Organ. 9.10-1.40 p.m.—K.R.O. Programme. 9.10—Concert. 10.10—Mass. 11.40—Male Voice Choir and K.R.O. Orchestra. Conductor: van't Woud; Records. 1.40 till Close Down—N.C.R.V. Programme. 1.40—Records. 2.10—Arnhem Orchestra. Conductor: v. Loon; Mlle. Reidd (Contralto). In the interval at 2.50: Records. 3.55—Records. 4.10—Christmas Programme from Raampoorst Hospital, Rotterdam. 5.10—Bouwmeester (Organ). 5.55—Records. 6.25—Orchestra. 7.40—Press Review; Service from The Hague. 8.55—Records. 9.25—Ravelli (Bass) and Engels (Organ). 10.25-11.40—Press Review; Records.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW until 2.40 p.m., and 60 kW from 2.40 p.m. A.V.R.O. Programme. 7.40 a.m.—Time. 7.41—Records. 8.25—Service. 8.40—Sacred Music. 9.40—V.P.R.O. Programme. 11.40—Records. 12.10 p.m.—Light Music by the Renova Quintet. 12.55—Light Music by Kovacs Lajos Orchestra. 1.40—German Christmas Carols. 2.10—Corry Bijster (Soprano) and Ans Stroink (Contralto). 2.40—Station Oset. 3.10—Christmas Tale. 3.40—Play. 4.30—Records. 4.40—Light Music by the A.V.R.O. /Eolian Orchestra. 5.25—Records. 6.10—Sports Talk. 6.40—Records. 7.10—Concertgebouw Trio. 7.40—Time. 7.41—News. 7.55—Mischa Elman (Violin) and the Station Orchestra. Conductor: Treep. 8.40—Christmas Puzzle. 9.10—Palla (Organ). 9.30—Kovacs Lajos Orchestra. 10.10—To be announced. 10.40—News. 10.50-11.40—Dance Music by the A.V.R.O. Decibels. Conductor: Meenk.

KALUNDBORG (Denmark)

238 kc/s (1,261 m.); 60 kW. Relayed by Copenhagen, 1,176 kc/s (255.1 m.). 7.0 a.m.—Gym. 7.30—Weather. 9.0—Service from the Cathedral. 10.30—Weather. 10.40—News. 11.0—Anker Albech's Wind Band. In the interval at 11.50: Reading. 1.0 p.m.—Students' Songs. 2.0—Accordion Band. 2.30—Records. 3.0—Peterson Orchestra. 4.0—Service from Christiansborg Castle Church. 5.20—Talk: The Danish Language. 5.50—Weather. 6.0—News; Sports. 6.30—Talk: Children's Plays and their Origin. 7.0—Quartet in F (Mozart) by

THURSDAY (December 26)

Munck (Oboe), Borre (Violin), Larsen (Viola) and Norup ('Cello). 7.20—Aage Thygesen (Songs). Three Songs (Weise): (a) Der er en ø i Livet, (b) Den skønne Jordens Sol gik ned, (c) Naar Piskende den Kvalder. Three Songs (Heise): (a) Om Strømmen mod dig bruser, (b) Ingen Blomst i Verdens Lande, (c) Henrykkelse.

7.40-1.0 a.m. (Friday)—Radio Ball for the Younger Generation. 7.40—Preil's Radio Dance Band. Helge Rungwald (Songs). 8.55—News. 9.10—Film Music. 9.25—Preil's Radio Dance Band. 10.15—Kjæder Dance Band from the Valencia. 11.0—Thomsen Dance Band from the National-Scala. 12.0 m't-1.0 a.m. (Friday)—Eiberg Dance Band from the Ritz Restaurant.

KÖNIGSBERG (Heilsberg)

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

Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Munich. 1.0 p.m.—Industrial Review.

1.15—Orchestra from Cologne. 2.0—Children's Games. 2.25—Sonata in G for Viola da Gamba and Harpsichord (Kühnel). 2.40—Dialect Reading. 3.0—Station Orchestra and Soloists. Conductor: Brückner. 5.0—Little Things that please. 6.0—Christmas Music.

7.0—Variety. Station Dance Band, Hohn Accordion Band, and Soloists. 9.0—News; Sports. 9.20—Talk: Model Aeroplanes. 10.0-11.0—See Berlin.

LEIPZIG (Germany)

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

Transmits at intervals from 5.0 a.m. 11.0 a.m.—Dresden Philharmonic Orchestra. Conductor: Blumer. Inger Karen (Contralto), Dahmen (Violin), Schwär (Speaker). 1.0 p.m.—Das heimliche Haus—Cantata (Baumann) on Records. 1.35—Records. 1.50—Dresden Hunting Horn Quartet; Scheffel (Flute), Richter (Pfte.). 2.30—Songs to the Lute by Kretschmar. 3.0—See Königsberg. 4.20—"Winter Camp"—Play (Alverdes) on Records. 5.20 (from Dresden)—Vocal and Instrumental Chamber Music. 6.10—"Gustav, Emil und die Bratpfel"—(Kühner), Music by Beilshmidt. 7.0—See Deutschlandsender. 9.0—News; Sports. 9.30—To be announced. 10.0—See Berlin. 11.0-11.55—Concert from Deutschlandsender.

LILLE (Radio PTT Nord)

(France) 1,213 kc/s (247.3 m.); 60 kW.

Transmits at intervals from 6.50 a.m. 6.30 p.m.—News; Review. 7.30—Records: The Mills Brothers. 7.45—Polish Programme. 8.0—Records. 8.30—Station Orchestra. Conductor: Soret. Martine Ray and Claude Brély (Songs). Song, "Olive" (Pearly-Chagnon). Symphonic Poem, Printemps (Lesveque). Selection, "Le Pré-aux-Clercs" (Hérold). An der schönen, grünen Narenta (Komzak). Songs. Fresques (Gaubert). Two Pieces (Chauvet). Petite suite moderne (Rosse). Songs. Norwegian Rhapsody (Lalo). Prize Song, "The Mastersingers" (Wagner). Ballet Music, "Romeo and Juliet" (Gounod). Night in Arabia (Arbos). Walloon Festival (Casadesus). The Great America (Florendas). 10.30—News.

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m. 6.0 p.m.—Records. 6.15—Italian Lesson. 6.30—Records: Overture, "Oberon" (Weber). 6.45—News. 7.0—German Students' Songs on Records. 7.20—"Addio Giovinezza"—Comedy in Three Acts (Camasio-Oxilia). 8.35—Records. Hot Jazz. 9.15—Weather.

MOSCOW (No. 1) (Russia)

174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m. 2.15 p.m.—For Children. 3.0—News. 3.13—Records. 4.30—Songs of 1905 by the Station Octet. 5.20—Songs. 6.30—The Gottlieb Brothers (Pftes.) and Sladkopezvez (Songs). 8.0—German Programme. For Peasants: (a) The Village in Winter, (b) Questions and Answers. 8.55—Chimes. 9.5—French Programme. Talk: (a) Agricultural Science and Collective Farming, (b) Questions and Answers.

10.0—Spanish Programme. Talks: (a) Henri Barbusse on Stalin, (b) The History of the Russian Revolutionary Movement.

MUNICH (Germany)

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).

Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra and Schrammel Quartet. Conductor: Kloss. Regensburg Domschatzen. 1.0 p.m.—For Children. 1.45—Music Lesson. 2.5—Organ and Wind Instruments. 2.40—Talk: Christmas in the Bush. 3.0—See Königsberg. 5.0—Loewe Ballads and Pfte. Music. 5.30—Weber Mandoline Quartet. 6.0—"Old Bavarian Christmas"—Sequence (Huber). 7.10 (from Nürnberg)—"Eckart"—Sequence with Music. Conductor: Böhm. 8.10—"Iceland to the Land of Fjords"—Scandinavian Sequence with Music (Jerusalem). 9.0—News; Sports.

9.30-11.0—Luise Richartz (Contralto) and the Stuhlfuhr Quartet. String Quartet in E flat (Tchaikovsky). Recordings: Songs (Brahms); String Quartet (Pauels). Suite (Ambrosius).

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 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 Trøndelag, 629 kc/s (476.9 m.).

Transmits at intervals from 10.30 a.m. 3.30 p.m.—Concert. 4.35—Readings. 4.55—Service. 6.15—News. 6.30—Songs (Singing) to Krag and Vogt Text by Morten Vatn. 7.0—"Queen for a Day"—Operetta (Bull), from the National Theatre. 8.40—News. 9.0—Talk. 10.0-11.0—Dance Records.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 20 kW.

Transmits at intervals from 8.0 a.m. 4.30 p.m.—Poetry. 5.0-5.10—Exchange; Markets. 6.30—Talk: The Conquest of Morocco. 6.45—Theatre Review. 7.0—News. 7.10—Weather; Racing Results. 7.20—Foreign Politics. 7.30—Singing Lesson. 8.0—Home Politics.

8.30—Recital by Jane Gatteau (Songs) and Rolet (Pfte.). Songs (Schumann). Preludes (Debussy). Persian Songs (Rubinstein). Toccata (Ravel).

9.0-10.0—Records. Marche des petits Soldats de Plomb (Pierné). Selection, "Thésée" (Lully). Mia bella (Recagno). Piece (Lazaro). Maurice Chevalier Potpourri. Menuet poudrée (Andrieu). Aubade musette (Popy). Espalibate (Grenet). Under African Skies (Dallin). Dance Music.

PARIS (Poste Parisien) (France)

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

Transmits at intervals from 6.0 a.m. 12.5 p.m.—Records: Excerpt, "Les cloches de Corneville" (Planquette). 12.15—For Children. 12.25—Interview. 12.35—Concert. 1.19—For Children. 1.40-2.0—Records. 6.20—Talk. 6.27—For Children. 7.7—Sports. 7.10—News. 7.30—Orchestra. Chopfer (Songs). Overture, "Les amoureux de Catherine" (Marechal). Songs. Alsatian Dances (Levadé). 8.0—Fashions. 8.25—Songs. 8.30—Concert. 9.20-10.45—Variety.

PARIS (PTT) (France)

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

Transmits at intervals from 6.50 a.m. 2.0 p.m.—For Children. 4.0—Talk. 4.15—Reading. 4.30—Remy, Devancky and Nerini, Unpublished Music by the Composers, and Mme. Duval. Mme. Nerini, and Tortelier. 5.0—For Children. 6.0—Records. Menuet du Pays tendre (Destouches-Casadesus). La Passacaille (Couperin). Minuet (Haydn). Sarabande (Bach). Gigue (Grétry). 6.30—News. 7.25—Talk: Hygiene and Sports. 7.30—Weather. 7.38—Records: French Operetta Music. Excerpts, "Les Mousquetaires au couvent" (Varney), "La Mascotte" (Audran), "Les Travaux d'Hercule" (Terrasse). 8.0—Fashions. 8.15—Review. 8.25—Aviation. 8.30—Old French Successes—Programme arranged by Danery. Orchestra. Conductor: Chobillon. Mme. Bertrand, Renée Destanges, Lina Tyber, Jean Clement, Lucien Dorval, Grandini and Ouvrard. In the interval, Duets by Adrienne Gallon and Louis Lynel, and Talk. 10.30—News.

PARIS (Radio-Cité) (France)

1,068 kc/s (280.9 m.); 0.8 kW.

7.0 a.m.—Records. 7.5—News. 7.15—Operetta Records. 7.45—News. 8.0—Records. 8.15—Racing. 8.30—Records: Music-Hall. 8.45-9.0—News. 12.0 noon—Records. 12.15 p.m.—News. 12.30—Variety. 12.45—Song Records. 1.0—Records: Excerpts, "White Horse Inn" (Stolz-Benatzky). 1.15-2.0—Tzipe Orchestra. In the interval at 1.30: Wireless Notes. 7.0—News. 7.15—Topical. 7.45—Records. 8.0—Announcements. 8.15—Jean Lumière (Songs). 8.30—Records. 8.45-9.0—In the Basque Country—Records.

PARIS (Radio-Paris) (France)

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

6.45 a.m.—Gym. 7.0—Records. 7.15—Gym. 8.0—Records. 8.30—For Women. 11.0—Station Orchestra. Conductor: Flament. 11.30—Talk. 11.45—Protestant Address. 12.15 p.m.—Orchestra. In the interval at 12.45: News; Review. 2.0—Reading (Anatole France). 2.30—Records. 3.30—Talk: Contemporary Novelists. 3.50—Reading. 4.0—Concert from Lille. 5.0—"Amphitryon"—Play (Molière). 6.45—Medical Talk: Winter Sports. 7.0—For Children. 7.30—Talk: Scotland. 7.40—Eighteenth Century Poems. 8.0—Tiarko Richepin (Songs and Recitations). Song, Vous êtes jolie (Delmet). Song, L'amour qui passe (Tiarko Richepin). Poem, La pêche à la ligne (Jean Richepin). Songs, Le bonheur est dans le pré (Canal). Song, Serenade (Tiarko Richepin). Poem, Clair de lune (Hugo). Song, Chanson lasse (Vuillemin). Song, La gamme de la vie (Tiarko Richepin). Poem, Un vieux lapin (Jean Richepin). Song, Si j'étais jardinier (Chaminade). Song, Rondo-Ballade (Tiarko Richepin). 8.30—News. 8.45—"La Comtesse d'Escarbagnas"—One-Act Comedy (Molière). Interludes by Doyen (Pfte.). 9.45-12.15 a.m. (Friday)—National Orchestra. Conductor: Inghelbrecht. Mule (Saxophone). Overture, "Gwendoline" (Chabrier). Stenka Razin (Glazunov). Pour une fête de printemps (Roussel). Saxophone: Rhapsody (Debussy). Symphony in B flat (Chausson).

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FRIDAY

December 27

3 p.m.
BERLIN, Sequence, Budde Music. **BEROMÜNSTER**, For Women. 3.30—Light Music. **BRESLAU**, Bass and Pfte., Books, Winter Programme.
COLOGNE, Winter-Poems, Lecture Recital. 3.40—Talk.
DEUTSCHLANDSENDER, Concert. 3.50—The Roving Microphone.
FRANKFURT, Instrumental Music.
HAMBURG, See Stuttgart. **HILVERSUM** (1,875 m.), Organ. **HILVERSUM** (301.5 m.), Dance Band, Records.
KALUNDBORG, Petersen Orchestra. **KÖNIGSBERG**, Folk Music and Songs, Poems.
LEIPZIG, Violin, Pfte. Talk, Weather-Exchange. **LILLE**, Concert Review, Exchange.
MOSCOW, News, Records, **MUNICH**, Weather, For Farmers, Soprano, Violins, Cello, Harpsichord. 3.40—Talk.
PARIS (PTT), Orchestra and Songs. **RADIO-NORMANDIE**, Variety, Orchestra. **RADIO-PARIS**, Records. 3.30—Christmas Stories, Talk. **ROME**, 3.45—Experimental Relay from Asmara.
SOTTENS, 3.30—See Beromünster. **STRASBOURG**, 3.45—Exchange. **STUTTGART**, Orchestra.
TURIN, 3.45—Experimental Relay from Asmara.
WARSAW, Talk. 3.15—Seredynski Orchestra, For Children.

4 p.m.
BERLIN, See Leipzig. **BEROMÜNSTER**, Brahms Concert. **BRESLAU**, Orchestra. **BUCHAREST**, Orchestra.
COLOGNE, Orchestra.
DEUTSCHLANDSENDER, Concert. 4.55—Talk.
EIFFEL TOWER, 4.30—Geography Lesson.
FRANKFURT, See Leipzig.
HAMBURG, See Leipzig. 4.30—Talk, Variety. **HILVERSUM** (1,875 m.), Organ. 4.25—K.R.O. Orchestra. **HILVERSUM** (301.5 m.), Records, For Children.
KALUNDBORG, Copenhagen Radio Club Christmas Festival. **KÖNIGSBERG**, See Leipzig.
LEIPZIG, Orchestra, Soprano, Baritone. **LILLE**, Organ.
MOSCOW, 4.30—Pfte. Solos. **MUNICH**, Orchestra, Vocal Quartet, Pftes.
OSLO, Records, For Girls.
PARIS (PTT), Television. 4.30—Concert.
RADIO-NORMANDIE, Tea-Time Hour. 4.45—Children's Corner.
RADIO-PARIS, Records of Spanish Music and Military Bands.
ROME, Cello.
SOTTENS, See Beromünster.
STOCKHOLM, For Children, Accordion Music, Talk. **STUTTGART**, See Leipzig.
TURIN, See Rome.
WARSAW, Report, Poem. 4.20—Handel and Bach Chamber Music, Sports Notes.

5 p.m.
ATHLONE, 5.30—For Children.
BERLIN, See Leipzig. 5.30—Talks. **BEROMÜNSTER**, Records, News, Health Hints, Talks. **BRESLAU**, Orchestra, Report. **BRUSSELS (1)**, Nineteenth Century Poems set to Music, Records, Pfte. **BRUSSELS (2)**, Dance Band from the Shanghai. **BUCHAREST**, Talk, Orchestra.
COLOGNE, Orchestra, For Workers, For Housewives, News.
DEUTSCHLANDSENDER, Talk (contd.). 5.15—Schumann and Brahms, Talk.
EIFFEL TOWER, Exchange.
FRANKFURT, See Leipzig. 5.30—Talk, News.
HAMBURG, Variety, Reading, Exchange, Markets, Weather. **HILVERSUM** (1,875 m.), K.R.O. Orchestra. 5.40—Talk. **HILVERSUM** (301.5 m.), For Children. 5.10—Concert.
KALUNDBORG, Exchange, For Farmers, Weather, News. **KÖNIGSBERG**, See Leipzig. 5.15—Topical Report, Markets, Talk.
LEIPZIG, Orchestra, Soprano, Baritone. 5.30—Talk. **LILLE**, Exchange.
MOSCOW, 5.20—Choir, Reading. **MUNICH**, Orchestra, Vocal Quartet, Pftes., Talk, Industrial Talk.
OSLO, Church Concert, News.
PARIS (PTT), Paris Symphony Orchestra. 5.30—Talks, Literary Review.
RADIO NORMANDIE, Time, Hungarian Music. 5.15—Songs. 5.30—Concert. **RADIO-PARIS**, Talks,

Review. 5.30—Paris Symphony Orchestra and Songs. **ROME**, Markets, Religious Talk, Announcements.
SOTTENS, Sketch for Children, Announcements, Sports Notes, Records. **STOCKHOLM**, Talk, Records. **STRASBOURG**, Markets, Talk. 5.30—Chamber Music. **STUTTGART**, See Leipzig. 5.30—For Hitler Youth.
TURIN, Markets. 5.35—Announcements, Records.
WARSAW, Variety, Topical Talk, Literary and Art Notes, Announcements, For Farmers.

6 p.m.
ATHLONE, For Children, Records, News.
BERLIN, Concert. **BEROMÜNSTER**, Time, Weather, Markets, Reports, French Lesson, A Basic Calendar. **BRESLAU**, Dance Band. **BRUSSELS (1)**, Request Records, Talk. 6.30—Montmartre Chansonniers, Records. **BRUSSELS (2)**, Talk. 6.15—Van Doren Recital, with the Composer, Sonata. **BUCHAREST**, News, Talk. 6.35—Opera Relay. **BUDAPEST (1)**, 6.15—Records.

'Cello, News, Operetta. **Airs. TURIN**, News (in Foreign Languages).
VIENNA, News, Report, 6.50—Military Band.
WARSAW, Announcements, Sports Notes, Talk.

7 p.m.
ATHLONE, Concert relayed from Rosmuck.
BERLIN, News. 7.10—Echoes of 1935. **BEROMÜNSTER**, Calendar. 7.30—Basic Orchestra; Violin. **BRESLAU**, Dance Band. 7.10—Songs and Dances. **BRUSSELS (1)**, Talk. 7.15—Trio. **BRUSSELS (2)**, Talk. 7.15—Nottambuli (Castelnuovo-Tedesco), Talk. **BUCHAREST**, Opera Relay, News in the intervals. **BUDAPEST (1)**, Records, 7.35—Pfte.
COLOGNE, News. 7.10—Folk Music. **DEUTSCHLANDSENDER**, News. 7.10—Orchestra.
EIFFEL TOWER, News, Racings, Topical Talks, Film Notes.
FRANKFURT, News, Band.
HAMBURG, News, Dance Music. **HILVERSUM** (1,875 m.), Talk, Records, News, Report. **HILVERSUM** (301.5 m.), Talk, Records, Recitations, Announcements, Talk. **KALUNDBORG**, Weekly Review.

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC
P.M.
 7.5 Prague: "La Manécanterie" Children's Choir (Paris).
 9.0 Warsaw: Carols in Esperanto.
SYMPHONY CONCERTS
 7.10 Deutschlandsender: Mozart, etc.
 7.25 Turin: Conductor, Gui.
 7.30 Beromünster: Basle Orchestra, violin.
 9.0 Kalundborg: Danish, Swedish Music.
LIGHT CONCERTS
 12.10 Hilversum (301.5 m.): Lajos Orchestra.
 4.0 Leipzig, etc.: Orchestral and vocal.
 7.10 Cologne: Folk Music.
 7.10 Warsaw: Operetta excerpts.
 7.55 Kalundborg: Operetta music.
 8.0 Brussels 1: Ex-Service programme.
 8.0 Brussels 2: Light orchestral.
 8.0 Vienna: Wagner.
 8.5 Prague: Orchestra, 'cello.
 8.15 Regional: L.S.O., Ronald.
 8.55 Hilversum (1,875 m.): Orchestra, pfte.
 9.0 Athlone: Popular orchestral.
 9.0 Stockholm: Light music.
 9.20 Warsaw: Light orchestral.
 9.30 Budapest 1: Popular orchestral.
 10.0 Bucharest: Radio orchestra.
 10.20 National: Sargent, Noel Eadie.

10.45 Radio-Paris, Strasbourg: Orchestra, songs.
OPERETTAS
 7.10 Munich: "Aennchen von Thoran" (Strecker).
 8.45 Radio-Paris: Messenger evening.
CHAMBER MUSIC
 7.10 Kalundborg: Violin, pfte. (Nielsen).
 8.30 Eiffel Tower: Pfte., 'cello, songs.
 9.30 Munich: Bruckner programme.
RECITALS
 2.10 Hilversum (301.5 m.): Pianoforte.
 6.15 Brussels 2: Van Doren programme.
 7.35 Budapest 1: Pianoforte.
 8.0 Radio-Paris: Song, 'cello.
 8.0 Stockholm: Song, pianoforte.
 8.5 Oslo: Rantzaau (pianoforte).
 8.15 Warsaw: Song, viola, French music.
 8.30 Rome: 'Cello, song.
PLAYS
 7.10 Leipzig: "King Uldrik I and his Sons."
 8.0 Athlone: "Scrooge" (Dickens).
 8.0 National: "A Christmas Carol."
 8.30 Paris (PTT), etc.: Tristan Bernard.
 9.15 Poste Parisien: Sketch and play.
TALK
 10.0 Budapest 1: Talk in English.
DANCE MUSIC
 2.50 Hilversum (301.5 m.); 9.50, Warsaw; 10.0, Kalundborg; 10.10, Brussels 2; 10.30, Regional, Vienna; 11.15, National; 12.0, Radio-Normandie.

COLOGNE, Wind Band. 6.50—Snapshots.
DEUTSCHLANDSENDER, Dance Band, Events, For Ex-Servicemen.
EIFFEL TOWER, 6.30—Talks.
FRANKFURT, Leipzig-Frankfurt Inter-Relay The Rhön District—Sequence. 6.45—Topical.
HAMBURG, "Sluder-Tanten" —Comedy in Dialect (Andersen). **HILVERSUM** (1,875 m.), K.R.O. Chamber Orchestra, Police Messages, Talk. **HILVERSUM** (301.5 m.), Concert (contd.). 6.40—Talk.
KALUNDBORG, News, Talk. **KÖNIGSBERG**, Weather, Announcements, Call of Youth, The Cosy Corner.
LEIPZIG, Leipzig-Frankfurt Inter-Relay: The Rhön District—Sequence, Sketch, Review. **LILLE**, For Women, Talks, Records.
MONTE CENERI, Harpsichord. 6.15—Talk, Trio (Bach), News. **MOSCOW**, Reading. 6.30—Poem for Verse Speaking Choir and Ensemble. **MUNICH**, Augsburg Sketches—Sequence.
OSLO, Announcements, News, Talk.
PARIS (PTT), Organ, News. **POSTE PARISIEN**, 6.15—Exchange, For Farmers, Schlusnus Records, Topical Talk, Record, Talk, Records. **PRAGUE**, News, Guards' Band, Talk.
RADIO-NORMANDIE, For Children. 6.45—News. **RADIO-PARIS**, For Women. 6.30—Paris Symphony Orchestra. **ROME**, Announcements, Tourist Talk, Letter-box. 6.20—News (in English). 6.43—News (in French).
SOTTENS, Records, Parliamentary Review, Records, Review, Financial Bulletin, News. **STOCKHOLM**, Records, Weather, Reading. **STRASBOURG**, Chamber Music (contd.), Talk, Theatre Review, Music Notes. **STUTTGART**, Variety, Talk.
TOULOUSE, Exchange, Light Music,

7.10—Sonata (Nielsen), Reading. 7.55—Operetta Music. **KÖNIGSBERG**, News. 7.10—See Breslau.
LEIPZIG, News. 7.10—"King Uldrik I and his Sons"—Play (Reinke). **LILLE**, Talks, Records.
MONTE CENERI, Orchestra, Records. **MOSCOW**, Symphony Concert and Songs. **MUNICH**, News, 7.10—"Aennchen von Tharau"—Opera (Strecker).
OSLO, Light Music, Talk.
PARIS (PTT), Talks, Weather, Symphony Orchestra. **PARIS (Radio-Cité)**, Racing, News, Topical Talks, Quintet Records. **POSTE PARISIEN**, Sports Notes, News, Amusements, The Event of the Week. **PRAGUE**, Children's Choir, Play (Faremont).
RADIO-NORMANDIE, Concert. 7.45—Interview, News. **RADIO-PARIS**, Orchestra (contd.), Theatre Talk, Talks. **ROME**, 7.5—News. 7.30—Invisible Microphones—Play. **SOTTENS**, 7.10—Dance Band, Lecture Recital: The History of Opera. 7.50—Cabaret. **STOCKHOLM**, Cabaret, Literary Talk. **STRASBOURG**, Songs, News. **STUTTGART**, News, Variety.
TOULOUSE, Orchestra, Xylophone, News, Talk, Chansonnettes. **TURIN**, 7.5—News. 7.25—Orchestra.
VIENNA, Military Band.
WARSAW, Topical Monologue. 7.10—Abraham Operetta Music.

8 p.m.
ATHLONE, "Scrooge"—Dickens' Story dramatised; Jail Escapes. **BERLIN**, 1935 Music. **BEROMÜNSTER**, News. 8.10—Orchestra (contd.), Scandinavian Folk Stories. **BRESLAU**, Songs and Dances. **BRUSSELS (1)**, For Ex-Servicemen. **BRUSSELS (2)**, Orchestra and

Humorist, "The Swineherd"—Play. **BUCHAREST**, Opera Relay; News in the interval. **BUDAPEST (1)**, Pfte., Ice-Hockey Match.
COLOGNE, Folk Music.
DEUTSCHLANDSENDER, Play. **EIFFEL TOWER**, Topical Talks. 8.30—Songs, Pfte., 'Cello. **FRANKFURT**, Band (contd.).
HAMBURG, Dance Music. **HILVERSUM** (1,875 m.), Report. 8.40—Recitations. 8.55—Orchestra, Pfte. **HILVERSUM** (301.5 m.), Talk, Boys' Choir. 8.40—Play.
KALUNDBORG, Operetta Music, Danish Songs, News. **KÖNIGSBERG**, See Breslau.
LEIPZIG, "King Uldrik I and his Sons." 8.30—Pftes. **LILLE**, Records. 8.30—See Paris (PTT).
MONTE CENERI, Orchestra, Records. **MOSCOW**, Czech Talk. **MUNICH**, "Annchen von Tharau" (contd.).
OSLO, Pfte., News.
PARIS (PTT), Music Talk. 8.30—Sketches. **PARIS (Radio Cité)**,

Sketches, with Introductory Talk, Orchestra. **LEIPZIG**, News, Sports Notes. 9.30—See Stuttgart. **LILLE**, See Paris (PTT).
MONTE CENERI, Orchestra, Records. 9.15—Weather. **MOSCOW**, English Programme. **MUNICH**, News, To be announced. 9.30—Bruckner Concert.
OSLO, Topical Talk. 9.15—A Winter's Evening in Finnmark.
PARIS (PTT), Sketches. **PARIS (Radio-Cité)**, "Arms and the Man"—Shaw. **POSTE PARISIEN**, Variety, 9.15—"Le manoir en musique"—Sketch. **PRAGUE**, News, Snow Report, Records, News (Russian).
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Messenger Programme (contd.). **ROME**, Soprano, 'Cello, Pfte. 9.30—News.
SOTTENS, Request Programme, Weather. **STOCKHOLM**, Light Music. **STRASBOURG**, See Paris (PTT). **STUTTGART**, News, Talk. 9.30—Concert.
TOULOUSE, Radio Fantasy, Orchestra, Operetta Music. **TURIN**, Orchestra, News (in Italian and Spanish).
VIENNA, News, Variety. 9.20—Vienna Symphony Orchestra. 9.40—Letter-box. 9.50—Announcements.
WARSAW, Christmas Carols in Esperanto. 9.20—Light Orchestra. 9.50—Dance Music.

9 p.m.
ATHLONE, Station Orchestra, Variety.
BERLIN, News, Reading. **BEROMÜNSTER**, Scandinavian Folk Stories, Weather. **BRESLAU**, News. 9.30—Orchestra. **BRUSSELS (1)**, For Ex-Servicemen (contd.). 9.15—Laeken Royal Philharmonic Society Concert. **BRUSSELS (2)**, Talk. 9.15—Orchestra (contd.). **BUCHAREST**, Opera Relay, Sports Notes in the interval, News. **BUDAPEST (1)**, 9.10—News. 9.30—Orchestra.
COLOGNE, News. 9.20—Records. 9.50—Concert from Stuttgart.
DEUTSCHLANDSENDER, News. 9.30—Songs.
EIFFEL TOWER, Songs, Pfte. 'Cello (contd.).
FRANKFURT, News, Sports, Report.
HAMBURG, News, Baritone, Pfte. **HILVERSUM** (1,875 m.), Orchestra, Pfte. 9.40—Limburg Programme. **HILVERSUM** (301.5 m.), Play (contd.). 9.10—Records.
KALUNDBORG, Danish and Swedish Symphony Concert, with Violin. **KÖNIGSBERG**, News, Two

10 p.m.
ATHLONE, Variety, News, Light Music.
BERLIN, Records. **BRESLAU**, Orchestra. **BRUSSELS (1)**, News. 10.10—Request Records. "Manon Lescaut" Records. **BRUSSELS (2)**, News. 10.10—de Kers Band. **BUCHAREST**, Radio Orchestra. **BUDAPEST (1)**, English Talk.
COLOGNE, See Stuttgart.
DEUTSCHLANDSENDER, See Königsberg.
FRANKFURT, See Stuttgart.
HILVERSUM, See Stuttgart. **HILVERSUM** (1,875 m.), Limburg Programme (contd.). 10.40—Records. **HILVERSUM** (301.5 m.), Records, Announcements, Records.
KALUNDBORG, Petersen Dance Orchestra. **KÖNIGSBERG**, Orchestra. **LEIPZIG**, See Stuttgart. **LILLE**, See Paris (PTT). 10.30—News.
MOSCOW, German Programme. **MUNICH**, Bruckner Concert. 10.30, Concert from Stuttgart.
PARIS (PTT), Sketches, News. **PARIS (Radio-Cité)**, News, "Arms and the Man" (contd.). **POSTE PARISIEN**, "Artistes"—One-Act Play. 10.30—Variety.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Messenger Programme (contd.). 10.45—Orchestra; Songs.
STRASBOURG, See Paris (PTT). 10.45—See Radio-Paris. **STUTTGART**, Concert (contd.).
TOULOUSE, Cabaret, Orchestra, News, Sound Film Music.
VIENNA, 10.5—Vienna Symphony Orchestra. 10.45—Dance Band. **WARSAW**, Weather, Dance Music from the Café Club.

11 p.m.
BERLIN, Records. **BRUSSELS (1)**, La Brabançonne. **BUCHAREST**, Records. **BUDAPEST (1)**, 11.5—News.
FRANKFURT, Opera, Records. **HILVERSUM** (1,875 m.), Records. **HILVERSUM** (301.5 m.), Records. **KALUNDBORG**, Petersen Dance Orchestra.
PARIS (Radio-Cité), "Arms and the Man" (contd.).
RADIO-NORMANDIE, Dance Music, 11.30—News. 11.45—Variety. **RADIO-PARIS**, Classical Music. **STUTTGART**, See Frankfurt.
TOULOUSE, Orchestra, Dance Band, Opera Arias, Orchestra.

12 midnight
FRANKFURT, Opera Records. **PARIS (Radio-Cité)**, News. 12.15—Dance Records.
RADIO-NORMANDIE, Dance Music. In the interval at 12.30—Time. **RADIO-PARIS**, Classical Music. **STUTTGART**, See Frankfurt.
TOULOUSE, Light Music, News, Marches.

1 a.m. (Saturday)
RADIO-NORMANDIE, Dance Music.

FRIDAY (December 27)

NATIONAL

For Time Signals, see Monday
10.15 a.m. (Droitwich)—Service.
10.30 (Droitwich)—Weather Forecast.
10.45—Parliament as Your Member Sees It; Capt. A. Cunningham-Reid, M.P.
11.0—Cinema Organ (Fredric Bayco).
11.30—Troadero Cinema Orchestra.
12.30 p.m.—BBC Dance Orchestra.
1.15—Birmingham Philharmonic String Orchestra. Conductor: Johan Hoek; Souvenir de Florence, Op. 70 (Tchaikovsky).
2.0—Records.
2.30—Alfredo Campoli and his Orchestra; Arthur Brough (Baritone).
3.30—BBC Midland Orchestra: Music for Strings (Bliss); Symphony No. 41 in C (Mozart); Suite, The Maid of Arles (Bizet).
4.45—Albert Taylor (Organ).
5.15—Frank Biff's Quintet; Jack Salisbury (Violin).
6.0—"The First News."
6.25—Bulletin of Special Notices.
6.30—Foundations of Music. Brahms Piano Trios, played by The Grinke Trio. Trio in C minor.
6.50—"In Your Garden"—C. H. Middleton.
7.10—"Talking of Music"—Malcolm Sargent, Mus.D.
7.30—Young Ideas. A Programme for Young People of all Ages.
8.0—"A Christmas Carol." Adapted for broadcasting by Max Kester. Cast includes: Robert Lorraine as Scrooge, Arthur Goulet, Cyril Nash, Clifford Bean, Dora Gregory, Valentine Dunn, J. Moore, Henry Ford, Renée de Vaux, V. C. Clinton-Baddeley. Music by Robert Chignell.
9.15—Cecil Dixon (Pfte.): Music of Schumann.
9.30—"The Second News."
10.0—"I Knew a Man"—13. "Brahms," by Dame Ethel Smyth, D.B.E.
10.20—BBC Orchestra (Section C), conducted by Malcolm Sargent; Noël Eadie (Soprano); Overture, Di ballo (Sullivan); Songs: Non so piu (Figaro) (Mozart), Villanelle (dell'Acqua); Suite, The Maid of Arles (Bizet); Songs: Czardas (Die Fledermaus) (Strauss), Waltz, The Blue Danube (Strauss).
11.15-12.0 (Droitwich)—Dance Music. Harry Roy and his Band, relayed from The May Fair Hotel.

REGIONAL

For Time Signals, see Monday
10.15-10.45 a.m. (except Midland)—Droitwich.
10.45—Miscellaneous Records.
11.15—BBC Welsh Orchestra; Carys Davies (Mezzo-Soprano).
12.15 p.m.—John Pullen (Organ).
12.45—Records.
1.30—Birmingham Hippodrome Orchestra.
2.30—BBC Northern Orchestra.
3.30—Records—Variety.
4.15—Hotel Metropole Orchestra.
5.15—Children's Hour.
6.0—"The First News."
6.30 (Regional); Northern from 6.50—BBC Northern Orchestra.
6.30 (Midland)—For Farmers.
6.30 (Western)—Records.
6.30 (Northern)—For Farmers.
6.30 (Scottish)—Next Week You'll Hear.
6.35 (N. Ireland)—N. Ireland Orchestra: Mrs. Rooney of Belfast.
6.40 (Scottish)—Saturday Sport.
6.45 (Western)—Carols from Bangor Cathedral.
6.50 (Midland)—Harry Engleman's Quintet; Vernon Adcock (Xylophone).
6.50 (Scottish)—Song Recital.
7.10 (Scottish)—Annals of Aberdeen.
7.30—BBC Dance Orchestra.
8.0 (N. Ireland)—Talk to Farmers.
8.15 (ex. Western)—London Symphony Orchestra. Conducted by Sir Landon Ronald.
8.15 (Western)—Celtic Programme. BBC Welsh Orchestra; Dora Herbert Jones (Soprano).
9.0 (Western)—Ebbw Vale Topical Talk by H. Victor Davies.
9.15 (Western)—"The Babes in the Wood," relayed from The Prince's Theatre, Bristol.
9.30 (Regional)—Records.
9.30 (Midland)—"I've Got Rhythm." Selection of Old and New Tunes.
9.30 (Northern)—"Christmas Party." Records arranged by Herbert Lees.
9.30 (N. Ireland)—Dance Band; Charles Hayes (Comedian).
9.30 (Scottish)—Variety.
10.0—News Summary.
10.10 (ex. N. Ireland and Scottish)—Dance Records.
10.0 (N. Ireland)—Dance Band.
10.10 (Scottish)—Piping and Fiddling.
10.30-12.0 (Scottish from 10.40; Midland till 11.15)—Dance Music.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 60 kW. Relayd by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.).
1.30-2.30 p.m.—Records. 5.30—Fog Children. 6.15—Records. 6.45—News. 7.0—Concert from Rosmuck. 8.0—"Scrooge"—Dickens' immortal Story dramatised by J. J. Henry. 8.45—"Jail Escapes"—P. Fleming and Noel Hartnett.
9.0—Station Orchestra. Overture, "Don Giovanni" (Mozart). Manx Airs (Wood). Festivalia (Winter).
9.30—Variety. 10.30-11.0—News; Music.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.-1.0 p.m.—See Frankfurt.
1.0—News. 1.15—Jahn Band. 2.0—Exchange. 3.0—A Sequence. 3.30—Budde Music for Baritone, Viola and Pfte.
4.0—See Leipzig. 5.30—Legal Talk. 5.40—An Interview. 6.0—Concert. 7.0—News. 7.10—Echoes of 1935. 8.0—1935 Hits. Station Orchestra. Conductor: Steiner. Schulz (Tenor).
9.0—News. 9.30—Reading (Hildebrandt).
10.0-11.15—Concert from the Academy of Singing (Records). Berlin Station Orchestra. Conductor: Graener. Favre Choir. Erdmann (Soprano). Steiner (Cello). Festliches Vorspiel (von Frankenstein). Weihnachtsbotschaft (Simon). Cello Concerto (Bullerian). Hamburger Tafelmusik (Maass).

BEROMÜNSTER

(Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayd by Basle and Berne, 1,375 kc/s (218.2 m.).
11.0 a.m.—Records of Marches and Wind Instrument Music. 11.29—News. 11.40—Records. 12.25—Exchange. 3.0—For Women. 3.30—Radio Orchestra. Conductor: E. Gilbert.
4.0—Brahms Concert by the Radio Orchestra. Conductor: Reinshagen. Adi Pruschka-Almosino (Songs). 5.0—Records of the Marek Weber and Josef Schmidt Orchestras and the Comedian Harmonists. 5.30—News for Children. 5.35—Health Hints. 5.40—Topical. 5.50—Technical Talk. 5.55—Topical. 6.0—Markets; Tourist and Winter Sports Reports. 6.20—French Lesson.
6.50 till Close: Programme from Basle.
6.50—A Basle Calendar in Dialect.
7.30—Basle Orchestra from the Hans-Huber-Saal. Conductor: Wetzler. Iboyka Zilzer (Violin). 8.0—News. 8.10—Orchestra (contd.). 8.50-9.15—Scandinavian Folk Stories.

BRUSLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayd by Gleiwitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.0 a.m.
11.0 a.m.—Orchestra. In the interval at 12.0 noon: News. 1.0 p.m.—News. 2.10—Periodicals. 2.30—Talk. 2.45—Readings. 3.0—Songs and Pfte. 3.30—Books. 3.40—A Cosy Winter Evening.
4.0—Orchestra and Soloists. 5.30—Topical.
6.0—Dance Band.
7.10—Songs and Dances. 9.0—News.
9.30-11.0—Bunzlau Municipal Orchestra. Conductor: Arndt. Overture, "Fra Diavolo" (Auber). Ballet, "Sylvia" (Delibes). Hofballtänze (Lanner). Minuet (Mozart). Prelude, "Schirin und Gertraude" (Graener). Czardas (Hubay). Three Pieces (Waldteufel). Marching Song Potpourri (Weminger). Melody (Stolz). Mein Lebenslauf (Strauss). March (Blankenburg).

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37-9.0 a.m.—Records; News; Gym. 11.55—Weather; Shipping. 12.0 noon—Records. Wiennachrichten (Translatour). The Skaters (Waldteufel). Waltz, "Les Cent Vierges" (Lecocq). Ovation (Mario). 12.20 p.m.—Cardon (Clarinet). Andante appassionata (Stekke). Caprice (Daneau).
12.30—Tchaikovsky Music. Orchestra. Conductor: Walpot. The Sleeping Beauty. Romance in F minor. Descriptive Dances. 1.0—News.
1.10—Christmas Music. Orchestra. Conductor: Walpot. Carol (Massenet). Old Carols (Frank-Busser).
1.20—Coppis (Songs). 1.30-2.0—Records: Gavottes, Gavotte from the Suite in D (Bach). Violin: Gavotte (Lully). Pfte.: Gavotte (Gluck-Brahms). Orchestra: Gavotte (Handel). Gavotte du bouquet (Destouches-Casadesus). Gavotte,

Pichounette (Bertolys). Gavotte bouffonne (Bertolys). Gavotte tendre (Ganne). Glow Worn Gavotte (Lincke).
4.55—Announcements. 5.0—Nineteenth-Century Poems set to Music. 5.15—Records: Wembley Military Tattoo.
5.30—Joseph Delcour (Pfte.). Waltz (Weber). Papillons (Schumann). Träumerei (Schumann). Rhapsody (Brahms). Waltz (Brahms). Caprice (Brahms). Waltzes (Beethoven).
6.0—Request Records. 6.15—Talk by M. Vranxex: The Electrical Equipment of Cars. 6.30—The Montmartre Chansonniers—Programme by Mme. Betty Paraud. 6.50—Records: Three Fanciful Etchings (Ketelbey). 7.0—Talk by M. Bovesse: The Youth Educational Movement. 7.15—Gérodard Trio. Song. Pressentiments (Déhaye). Slow Foxtrot, Souvenirs (Gérodard). Boston. Quand on aime (Déhaye). Foxtrot, Sans chichis (Gérodard).
8.0—Programme for Ex-Servicemen. Part I. Military Bands. Part II. News for Ex-Servicemen.
9.15—Laeken Royal Philharmonic Society: Etterbeck Trumpeters. Conductor: Payen. March of the Brussels Civic Guard. Marche des Chasseurs Chasteler (arr. Martin). March, Les petits chasseurs verts. March, Soldat de la Garde (van



Scrooge's Christmas, broadcast in play form by Athlone (8 p.m.)

Luck). March of the Laeken Civic Guard (Siroux). La résidence royale. Legion March (Preckher). March of the Schaebeck Civic Guard (Mahy). March of the Saint-Josse-ten-Node Civic Guard (Siroux). March of the Ixelles Civic Guard.
10.0—News. 10.10—Request Records. 10.25—Records: Manon Lescaut (Puccini). 11.0—La Brabançonne.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
6.37-9.0 a.m.—Records; News; Gym. 11.57—Weather.
12.0 noon—Records: "Tannhäuser" (Wagner). In the interval at 12.30 p.m.: Weather and at 1.0: News. 2.0-2.3—Shipping. 4.55—Announcements. 5.0—Heyne Dance Band from the Shanghai. 6.0—Talk: The State and the Church.
6.15—Van Doren Recital. The Composer (Violin), Irene Van Rysselberghe (Songs). Violin: (a) Sérénade, (b) Réve. Pfte.: (a) Slaapzacht, (b) Kinderdansen. Violin: Romance. Pfte.: Scherzo. Violin: Humoresque.
6.45—Fantasia Sonata (Holbrooke), by Madame Husson-Michaux (Pfte.). Frezin (Cello). 7.0—Talk. 7.15—Nottambuli (Castelnuovo-Tedesco), by Mme. Husson-Michaux (Pfte.). Frezin (Cello). 7.30—Legal Talk.
8.0—Orchestra. Conductor: Walpot. De Wilde (Humorist). March, Mieke et Janneke (Siroux). Overture, "Light Cavalry" (Suppé). Humorous Items. Paraphrase on Poème (Fibich-Bemers).
8.30—"The Swineherd"—Play after Andersen (Nargime). Music by Lee-mans. 9.0—Wireless Talk.
9.15—Orchestra (contd.). Cockney Suite (Ketelbey). Humorous Items. Nola (Wiedoeff). Piano-fop (Confrey). Humorous Items. Potpourri, Dividenden (Morena).
10.0—News. 10.10-11.0—de Kers Band from the Broadway Cabaret.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Transmits at intervals from 10.0 a.m.
4.0 p.m.—Stefanescu Orchestra. In the interval at 5.0: Talk. 6.0—News. 6.15—Talk. 6.35—Opera. In the intervals: News; Sports. 9.55—News. 10.0—Radio Orchestra. Overture, "Suzanna's Secret" (Wolf-Ferrari). Invitation to the Waltz (Weber). Petite Suite (Debussy). Rhapsody, España (Chabrier). Ballad for Flute (Perilhou). Suite algérienne (Saint-Saëns).
11.5-12.0 m't—Records.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m.
4.0 p.m.—Children's Songs. 4.25—Sports. 4.40—Czicza Cigány Band. 5.45—Ferenc Jancovich. 6.15—Records. 7.15—Review of Foreign Affairs. 7.35—Liszt Music—Imre Stefánia (Pfte.). 8.30—Ice Hockey Match Report. 9.10—News. 9.30—Orchestra. Conductor: Melles. 10.0—English Talk. 11.5—News.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m.
11.0 a.m.—See Frankfurt. 1.0 p.m.—News. 1.15—Variety from Deutschlandsender. 2.0—Christmas Reminis-

4.0—See Leipzig. 5.30—Talk: Eckart. 5.55—Exchange; Announcements.
6.0—Leipzig-Frankfurt Inter-Relay: "The Rhön District"—Sequence. 6.50—Topical. 7.0—News. 7.10—Hauk Band. 9.0—News; Sports. 10.0—Concert from Stuttgart. 11.0-1.0 a.m. (Saturday)—Opera Records.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Relayd by Bremen, Flensburg, Hanover, Magdeburg and Sietlin, 1,330 kc/s (225.6 m.). Transmits at intervals from 5.0 a.m.
11.0 a.m.—Shipping. 11.10—Niemann Wind Band from Bremen Old Town Hall. In the interval at 12.0 noon: Review. 1.0 p.m.—News. 1.20—Music. 2.0—Exchange. 2.40—Shipping. 3.0—See Stuttgart. 4.0—See Leipzig. 4.30—Talk: The Amelungsborn Cistercian Monastery. 4.45—Variety. 5.15—Reading. 5.45—Exchange; Markets. 6.0—"Sluder-Tanten"—Dialect Comedy (Andersen). 7.0—News. 7.10—Station Dance Band. 9.0—News. 9.25—Jacobsen (Baritone). Werth (Pfte.). Fantasia and Fugue in C (Mozart). Two Songs (Schubert). Rondo in G (Beethoven). Two Songs (Schumann).
10.0-11.0—Concert from Stuttgart.

HILVERSUM (1,875 m.)

(Holland)

160 kc/s; 10 kW. until 2.40 p.m.; 100 kW. from 2.40 p.m. K.R.O. Programme.
7.40-8.55 a.m.—Records. 9.40—Records. 11.10—For Invalids. 11.40—Police Messages; Records. 12.25-2.40 p.m.—K.R.O. Boys. Conductor: Lustenhouwer. In the intervals: Records. 2.55—Organ. 4.25—K.R.O. Orchestra. Conductor: Gerritsen. 5.40—Talk. 6.0—K.R.O. Chamber Orchestra. Conductor: Gerritsen. 6.40—Police Messages; Talk; Records; News. 7.45—Report. 8.40—Recitations. 8.55—Maastricht Municipal Orchestra. Conductor: Hermans. Tiny Kaiser (Pfte.). 9.40—Limburg Programme. 10.40-11.40—Records.

HILVERSUM (301.5 m.)

(Holland)

995 kc/s; 15 kW. until 2.40 p.m. and 60 kW. from 2.40 p.m.
7.40-9.40 a.m.—V.A.R.A. Programme. 7.40—Organ. 8.10—Records. 9.10—Talk; Dietetics. 9.40—V.P.R.O. Religious Programme. 9.55—Talk; Records; Recitation. 11.40-3.40—A.V.R.O. Programme. 11.40—Time; Records. 12.10 p.m.—Kovacs Lajos Orchestra and Records. 1.40—Talk. 2.10—Julius Hijman (Pfte.). 2.50—A.V.R.O. Decibels Dance Band. 3.40-7.40—V.A.R.A. Programme. 3.40—Records. 4.40—For Children. 5.10—Concert. 6.40—Talk; Records; Recitation. 7.30—Announcements. 7.40-10.40—V.P.R.O. Programme. 7.40—Announcements; Talk. 8.10—Boys' Choir. Conductor: Cuypers. 8.40—Play. 9.10—Records. 10.25—Announcements. 10.40-11.40—Records; Jong (Pfte.).

KALUNDBORG (Denmark)

238 kc/s (1,261 m.); 60 kW. Relayd by Copenhagen, 1,176 kc/s (255.1 m.).
6.0 a.m.—Gym. 7.30—Cathedral Service. 10.0—Weather; Fish Markets. 10.15—Talk for School Children: Christmas Holidays in a Log Hut. 11.0-1.0 p.m.—Bendix String Ensemble. 1.30—For Children. 2.0—Peterson Orchestra. 4.0—Christmas Festival of the Copenhagen Radio Club. Address, Speech, Organ Prelude. Solo Song, Fairy-tale, Children's Play, Community Song. 5.0—Exchange. 5.15—For Farmers. 5.45—Weather. 5.54—News. 6.0—News. 6.30—Talk: South Jutland. 7.0—Weekly Review by Per Knutzon. 7.10—Sonata in A (Nielsen) by Koppel (Violin) and Jensen (Pfte.). 7.35—Reading. 7.55—Operetta Music. Radio Orchestra. Conductor: Reesen. March, "The Merry Widow" (Lehár). Waltz Intermezzo, "The Count of Luxembourg" (Lehár). Selection, "A Kiss in Spring" (Kálmán). March, "Polenblut" (Nedbal). 8.30—Danish Songs (Brodersen) by Hertha Björvig, the Composer at the Pfte. Lykkelig Stund. Libel-lerne. Weltenweiter Wanderer. Yndefuld Overenskomst. Du hast mir hell ins Herz geblickt. Frühling. 8.45—News. 9.0—Danish and Swedish Symphony Concert. Radio Symphony Orchestra. Conductor: Reesen. Koppel (Violin). Concert Overture, Primavera (Risager). Caprice for Violin and Orchestra (Koppel). Rhapsody

(Tarp). Fourth Symphony (Atterberg). 10.0-11.30—Petersen Dance Orchestra from the Wivex Restaurant.

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.) Transmits at intervals from 5.3 a.m. 11.0 a.m.—See Frankfurt. 1.0 p.m.—News. 1.15—Announcements. 1.30—Talk. 2.0—Markets. 2.15—For Children. 2.40—Reading. 3.0—Folk Music and Songs. 3.45—Poems. 4.0—See Leipzig. 5.15—Topical. 5.30—Markets. 5.40—Talk. Cart Horses. 6.0—Announcements. 6.15—Call of Youth. 6.25—The Cosy Corner. 7.0—News. 7.10—See Breslau. 9.0—News; Sports. 9.20—Two Sketches about Xerxes, with Introductory Talk. 9.40-11.0—Light Music. Station Orchestra. Conductor: Wilcken.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Frankfurt. 1.0 p.m.—News; Exchange. 1.15—Variety from Deutschlandsender. 2.0—Children's Books. 2.20—Handwork for Girls. 2.50—Exchange. 3.0—Pastor (Violin). Burgert (Pfte.). 3.30—The Legend of the "dark" Middle Ages. 3.50—Exchange. 4.0—Dresden Philharmonic. Conductor: Weber. Margarete Teschemacher (Soprano), Kamann (Baritone). 5.30—Talk: Progress in Physics and Technics, 1935. 6.0—Leipzig-Frankfurt Inter-Relay—"The Rhön District"—Sequence. 6.45—"18, 20, pass"—Sketch (Märglein). 6.55—Review. 7.0—News. 7.10—"King Ulldrik I and his Sons"—Play (Reinke). 8.30—Golwyn and Walter (Pftes.). 9.0—News; Sports. 9.30-11.0—See Stuttgart.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.50 a.m. 6.30 p.m.—Topical. 7.30—Records. 8.0—Records. Selection, "Der Freischütz" (Weber). Intermezzo, Was Blumen träumen (Translatour). Einzug der Rosenkönigin (Rhode). Overture, "Light Cavalry" (Suppé). Waltz, Die Schönbrunner (Lanner). Roses from the South (Strauss). 8.30—See Paris (PTT). 10.30—News.

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m. 6.0 p.m.—Nino Herschel (Harpischord). Minuet (Schürmann). Carillon de lythère (Couperin). L'Egyptienne (Rameau). Gavotte (Gossec). Les Fiffes (Daudrieu). Air tendre (Lully). Tambourin (Rameau). Allegro (Leclair). 6.15—Talk: Ticino Artists. 6.30—Trio for Flute, Bassoon and Harpischord (Bach). 6.45—News. 7.0-9.15—Radio Orchestra and Records.

MOSCOW (No. 1) (Russia)

174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m. 2.15 p.m.—For Children. 3.0—News. 3.13—Records. 4.30—Goutman (Pfte.). 5.20—Choir. Conductor: Koukivkin. 5.45—Vera Inber reads her own Poems. 6.30—Poème (Bagrizky) for Verse-Speaking Choir and Vocal Ensemble. Conductor: Svechnikov. 7.0—Symphony Concert. Conductor: Guinzbourg. Makarova-Chevtchenko (Songs). Overture, "A Night in May" (Rimsky-Korsakov). Seven Russian Folk Songs (Liadov). The Enchanted Lake (Liadov). Caba-Yaga (Liadov). Overture and Two Arias, "Khovanshchina" (Mussorgsky). Turkish March (Mussorgsky). 8.0—Collective Farmers' Questions and Answers (in Czech). 8.55—Chimes. 9.5—English Programme: Child Musicians at the Microphone. 10.0—German Transmission: (a) Request Programme; (b) Sports.

MUNICH (Germany)

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.). Transmits at intervals from 5.0 a.m. 11.0 a.m.—Orchestra. 12.0 noon—News. 12.15 p.m.—Wörthmüller Quintet. 1.0 p.m.—News. 2.20—"St. Lucia's Eve"—Play after a Swedish Legend (Glas). 3.0—For Farmers. 3.10—Vocal and Instrumental. 3.40—Talk. 4.0—Station Orchestra. Conductor: Kloss. Munich Vocal Quartet. Weid and Schulze (Pftes.). 5.30—Talk: Skiing in Bavaria. 5.50—Industrial Talk. 6.0—"Augsburg Sketches"—Sequence (Oehmichen-Herre), with a Chamber Trio and Soloists. 7.0—News. 7.10—"Anchen von Tharau"

Three Act Opera (Strecker). Conductor: List. 9.0—News; Sports. 9.20—To be announced. 9.30—Bruckner Vocal and Instrumental Concert. Organ Prelude in C. Quintet in F. Contralto and Organ: Ave Maria. Organ Fugue in D minor. 10.30-11.0—Concert from Stuttgart.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 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.). Transmits at intervals from 9.0 a.m. 4.0 p.m.—Records. 4.30—For Girls. 5.0—Church Concert. 5.55—News. 6.0—Announcements. 6.15—News. 6.30—Talk. 7.0—Music. 7.45—Talk. 8.5—Rantzau (Pfte.). Prelude (Bach). Moto perpetuo (Weber). Malagueña (Albéniz). Tango (Albéniz). Waltz (Moszkowski). 8.35—News. 9.0—Topical. 9.15-10.0—A Winter's Evening in Finnmark.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 20 kW. Transmits at intervals from 8.0 a.m. 4.30 p.m.—Geography Lesson. 5.0—Exchange. 6.30—Talk by Henri Bordeaux. 6.45—Theatre Talk. 7.0—News. 7.10—Racing. 7.20—Topical Talks. 7.45—Film Notes. 8.0—Topical Talks. 8.30-10.0—Mme. Pêchénard (Songs), Mme. Zurluh-Tenroc (Pfte.) and Lopes (Cello). Sonata for 'Cello' and Pfte. (Corelli). 'Cello: (a) Barcarolle nocturne, (b) Petite histoire (Bachelot), (c) Chanson à bercer (Florent Schmitt). Five Songs. Pfte.: (a) Oiseaux tristes, (b) Alborada del Gracioso (Ravel). Songs: (a) Jardin d'amour (Vuillemoz), (b) Lamento (Tomasi), (c) Zilibrina (Tomasi), (d) Le vaincu (Aubert). Sonata for 'Cello' and Pfte. (Paray). In the interval: News.

PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange. 12.5 p.m.—Records. 12.25—Interview. 12.35—Folies-Bergères. 1.15—Exchange. 1.19—Records. 2.0, 3.15, 3.45, 4.35, and 6.15—Exchange. 6.20—For Farmers. 6.21—Records of Schlusnus (Baritone). 6.31—Topical. 6.41—Record. 6.45—Talk. 6.50—Records: The Moldau (Smetana). 7.5—Sports. 7.10—News. 7.28—The Event of the Week. 7.35—Soloists. 7.50—Talk. 7.55—"Faces"—Records. 8.5—Talk. 8.15—Exchange. 8.25—Programme with Mauricet and Varenne. 8.40—Programme with Jean Planel. 9.15—"Le manoir en musique"—Sketch. 10.0—"Artistes"—One-Act Play (Langer). 10.30-11.0—Records: Light Music.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.50 a.m. 2.0 p.m.—South American Notes. 2.15—Photography Lesson. 2.20—Talk: Social Hygiene. 2.30—Orchestra and Songs. 4.0—Television. 4.30—Paul Ladmirault Concert by Jean Doyen and Joseph Canteloube (Pftes.) and the "Accord Parfait" Vocal Quartet. Commentary by Canteloube. Excerpts, "Les mémoires d'un ane" The Accord Parfait: (a) La fille abandonnée, (b) Le charbonnier, (c) La légende de Saint-Efflam, (d) La poule blanche. Pfte. Duet: Variations sur des airs de binou (arr. Trécorois). 5.0—Paris Symphony Orchestra. Conductor: Fougère. Overture, "Jean de Paris" (Boieldieu). Waltz, "Le timbre d'argent (Saint-Saëns). Overture, "La petite Bohème" (Hirschmann). Waltz, Flots de joie (Waldeufel). 5.30—Talk: Economics. 5.40—Talk arranged by the International Labour Bureau. 5.50—Literary Review. 6.0—Marthe Bracquemond (Organ) from the Schola Cantorum. Three Chorals (Bach). Variations on an Old Carol (Dupré). 6.30—News; Topical Talks. 7.30—Weather. 7.38—Paris Symphony Orchestra. Conductor: Fougère. Overture, "Le Postillon de Longjumeau" (Adam). Excerpts, "Don César de Bazan" (Massenet). Overture, "The Daughter of the Regiment" (Donizetti). 8.0—Illustrated Talk: Circus Music. 8.30—Sketches (Tristan Bernard). "Le Narcotique." "La Morale et le Hasard." "Le Triomphe de la Science." "Un Mystère sans importance." "Un Garçon de 18 ans." "Le Captif." 10.30—News.

PARIS (Radio-Cité) (France)

1,068 kc/s (280.9 m.); 0.8 kW. 7.0 a.m.—Records. 7.5—News; Records. 7.45—News. 8.0—Records. 8.15—Racing. 8.30—Dance Records. 8.45-9.0—News. 12.0 noon—Records. 12.15 p.m.—News. 12.30—Records. 1.0—Talk. 1.15—Song Records. 1.30—Wireless Notes. 1.45-2.0—Records. 7.0—News. 7.15—Topical. 7.45—Quintet Records. 8.0—Music-Hall. 8.30—Records. 8.45—Bordas (Songs). 9.0—"Arms and the Man"—Play (Shaw), from the Théâtre des Mathurins. In the interval at 10.0: News. 12.0 m't.—News. 12.15-12.30 a.m. (Saturday)—Dance Records.

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW. 6.45 a.m.—Gym. 7.0—Records. 7.15—News. 7.45—Gym. 8.0—Records. 11.0—Poulet Concert Orchestra. Conductor: Labis. 11.30—For Farmers. 11.45—Jewish Talk. 12.15 p.m.—Poulet Concert Orchestra. Conductor: Labis: Soloist: Mile. Vallès-Orientis. In the interval at 12.45: News; For Ex-Servicemen. 2.0—Readings (Anatole France). 2.30—Records: Part I: Famous Orchestras. Toccata and Fugue in D minor (Bach), by the Philadelphia Symphony Orchestra. Carnival romain (Berlioz), by the London Philharmonic Orchestra. Mephisto-Walzer (Liszt), by the Lamoureux Concert Orchestra. Part II: Beethoven. Overture, Egmont, by the Concertgebouw Orchestra. Song: Die Liebe der Nächsten. Pfte.: Ecossaise and Bagatelle. Song: In questa tomba oscura. Overture, "Prometeus." 3.30—Christmas Stories. 3.50—Talk. 4.0—Records: Part I: Spanish Music. Corpus Christi in Seville (Albéniz). Allegro and Vivace (Fallá). Song: "Alma de Dios" (Serrano). Spanish Dance (Granados). Ay, Ay, Ay (Freire). Part II: Military Bands. Polonaise (Vidal). Intermezzo, "Cavalleria rusticana" (Mascagni). Mascarade (Lacôme). March, Potpourri (Charlic). 5.0—Talk: Saint Jane de Chantal and Saint Francis de Sales. 5.15—Talk: The Man of the Week. 5.25—Review. 5.30—Paris Symphony Orchestra. Conductor: Tomasi. Jeanne Perriat (Songs). Overture, "Phèdre" (Massenet). Prelude, "Messidor" (Bruneau). Songs: (a) The Nightingale (Gretchaninov), (b) The Lilac (Rachmaninov), (c) L'âne blanc (Huc), (d) La petite maison (Beydts). 6.0—For Women. 6.30—Paris Symphony Orchestra. Conductor: Tomasi. Excerpts, "The Maid of Pskov" (Rimsky-Korsakov). A Fairy Tale (Rimsky-Korsakov). Symphonic Poem, Psyche (Franck). Overture pour un conte gai (Emmanuel). Romeo and Juliet (Tchaikovsky). 7.30—Theatre Talk. 7.45—Talk: Hunting. 7.50—Talk: Dietetics.

8.0—Yvonne Régis (Songs) and Jaqueline Roussel (Cello). Part I: Songs. Ce que tu n'oses pas dire (François-Penou). Vous (François-Lair-Berg). Rayon de lune (Laisel-Cairone). Histoire d'amour (Gérard-Richepin). J'attends ton retour (Sauvillie). Part II: 'Cello. Sonata (Cassado). Spanish Songs (Nin). 8.30—News. 8.45—Message Programme. Incidental Music, "Deburau." "La Fauvette du Temple"—Opera in Three Acts. Choirs and Orchestra. Conductor: Labis. Soloists: Roger Bourdin, René Hérent, Talba, Lovano, Payen, Lucienne Bauge and Mme. Meyrande. 10.45-12.45 a.m. (Saturday)—Orchestra. Conductor: Clergue. Marguerite Soyer (Songs). Concerts Royaux (Couperin). Arias, "The Magic Flute" (Mozart), "Figaro" (Mozart). Septet (Saint-Saëns). Ariettes oubliées (Debussy). Suite bergamasque (Debussy). Bouton d'or (Piencé).

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m. 6.0 p.m.—News. 6.10—National Guards' Band. 6.50—Talk. 7.5—"La manecanterie." Children's Choir of Paris from the Smetana Hall. Conductor: Maillet. Sacred Songs. Carols. Motets. 7.35—"The Enemy"—Play (Farémont). 8.5—Station Orchestra. Conductor: Parik. Heran (Cello). Symphonic Poem, Les Eolides (Franck). 'Cello: Poème romanesque (Gaubert). L'apprenti sorcier (Dukas). Overture, "The Mastersingers" (Wagner). 9.0—News; Sports. 9.15—Snow Report. 9.20—Records. 9.45-10.0—News (Russian).

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW. 7.0 a.m.—Records. 7.20—News. 7.45—Records. 7.48—Racing. 7.50—Records. 7.53—Cookery. 8.0—Records. In the interval at 8.15—Time. 8.30—Orchestral. 8.45—Records. 9.0—Time; Orchestral. 9.30—Variety. 9.45—Military Band. 10.0-3.30 p.m.—Variety. 3.30—Orchestra. 4.0—Tea-Time Hour. 4.45—Children's Corner. 5.0—Time; Hungarian Music. 5.15—Songs. 5.30—Concert. 6.0—For Children. 6.45—News. 7.0-12.0 m't.—Variety. 12.0 m't-2.0 a.m. (Saturday)—Dance Music. In the interval at 12.30: Time.

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,059 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2) and Turin (No. 2), 1,357 kc/s (221.1 m.). Transmits at intervals from 6.45 a.m. 4.0 p.m.—Ranzato (Cello) from the Royal Academy of St. Cecilia. 5.0—Markets. 5.10—Religious Talk. 5.35—Announcements. 5.45-6.0—Announcements; Tourist Talk in Dutch; Letter-box. 6.20—News (English, Fr.). 7.5—News. 7.30—Invisible Microphones—Scenes. 8.15—Tourist Talk. 8.30—Soprano and Cello Recital. Adagio recitativo (Vivaldi-Bach). Allegro (Bocherini). Leggenda (Frazzi). Sicilian Dance (Casella Silva). Songs. 'Cello Sonatina (Massimo). 9.30—News.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 25 kW. Relayed by Geneva, 401 kc/s (748 m.). 11.29 a.m.—Time; News. 11.40-1.0 p.m.—Programme from Geneva. 11.40—Records. 12.0 noon—Talk. 12.3 p.m.—Records. 1.40-3.10—Report on the International Ice Hockey Match from St. Moritz. 3.30-5.0—See Beromünster. 5.0 till Close Down—Programme from Geneva. 5.0—Sketch for Children. 5.30—Announcements; Sports Notes. 5.55—Records. 6.10—Weekly Parliamentary Review. 6.25—Records. 6.35—Radio Review. 6.55—Weekly Financial Bulletin. 6.59—Weather. 7.10—Bob Engel Dance Band. 7.25—Lecture Recital: "The History of Opera"—Pergolesi, Puccini, and Cimarosa. 7.50—"Les petits soirs de Paris"—Cabaret by Ruy Blag with Orchestra. Conductor: Pasche. In the interval at 8.20: News. 9.0—Request Programme. 9.15—Weather.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.). Transmits at intervals from 6.20 a.m. 4.5 p.m.—For Children. 4.25—Accordion Music by Gösta Westerlund and Charles Willy. 4.45—Talk: Soviet Literature. 5.15—Records. 6.15—Weather. 6.30—Reading. 7.0—Cabaret. 7.30—Literary Talk from Malmö. 8.0—Lissie von Rosen (Songs) and Leygraf (Pfte.). 8.45—News. 9.0-10.0—Light Music by the Elite Orchestra. In the Baroque Style (Rangström). Romance (Pergament). Valse dolente (Sundin). Lamentoso (Christiansen). Intermezzo (Björkander). Two Pieces (Peterson-Berger): (a) På fjället i sol, (b) Två dedikationer. Swedish Folk Songs and Dances (arr. Löfgren).

STRASBOURG (France)

859 kc/s (349.2 m.); 120 kW. Transmits at intervals from 6.45 a.m. 3.45 p.m.—Exchange. 5.0—Markets. 5.15—Talk: The Old Church of Meistratzheim. 5.30—Chamber Music from Lyons (La Doua). 6.30—Talk in German. 6.45—Theatre Review and Music Notes. 7.0—Faniard (Songs). 7.30—News. 7.45—News in German. 8.10—Records. 8.30—See Paris (PTT). 10.45—See Paris (Radio-Paris).

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—1.0 p.m.—See Frankfurt. 1.0—See Deutschlandsender. 2.0—For Ex-Servicemen. 2.30—Fairly Play (Vetter). 3.0—Pforzheim Symphony Orchestra. Conductor: Leger. 4.0—See Leipzig. 5.30—For Hitler Youth. 6.0—Variety. 6.45—Talk. 7.0—News. 7.10—"Ski-ing"—Variety. 8.10—Concert. 9.0—News. 9.15—Talk: Schliemann.

FRIDAY (December 27)

9.30—Light Music. Hollinger Orchestra, Oswald (Violin), Schöninger (Pfte.). 11.0-1.0 a.m. (Saturday)—See Frankfurt.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 6.0 p.m.—Exchange. 6.5—Light Music. 6.30—Cello. 6.45—News. 6.50—Operetta Airs. 7.5—Viennese Orchestra. 7.25—Xylophone. 7.30—News. 7.45—Talk. 7.50—Chansonnettes. 8.15—Light Music. 8.30—Hunting Horns. 8.50—Musical Comedy Music. 9.0—"Promenade dans le Tarn"—Radio Fantasy. 9.35—Maurice Saint Paul and his Musette Orchestra. 9.50—Operetta Music. 10.0—Cabaret. 10.20—Orchestra. 10.30—News. 10.45—Sound Film Music. 11.0—Russian Orchestra. 11.15—Dance Band. 11.30—Opera Arias. 11.45—Orchestra. 12.0 m't.—Light Music. 12.15 a.m. (Saturday)—News. 12.20-12.30—Marches.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.). Transmits at intervals from 6.45 a.m. 3.45 p.m.—Relay from Asmara. 4.0—See Rome. 5.0—Markets. 5.35—Announcements; Records. 5.45—Government Notes. 6.0—News in Foreign Languages. 7.5—News. 7.25—Orchestra and Choir. Conductor: Gui. Melandri (Tenor). Trio Sonata (Porpora-Gui). Juvenus (De Sabata). Fugue in D (Bach-Respighi). Fifty-fifth Psalm (Kodaly). In the interval: Talk. After the Concert. News (Italian, Spanish).

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Relayed by Graz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Dornbirn, Klagenfurt, Linz and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.). Transmits at intervals from 6.0 a.m. 6.0 p.m.—News. 6.50—Military Band. 8.0—Richard Wagner Concert. Vienna Symphony Orchestra. Conductor: Auberth. Graard (Tenor) and Falzari (Baritone). 9.0—News. 9.10—Variety. 9.20—Vienna Symphony Orchestra. 9.40—Letter-box. 9.50—Announcements. 10.45-12.0 m't.—"Blue Boys" Dance Band.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Łódź, 1,339 kc/s (224 m.); Lwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.). Transmits at intervals from 5.30 a.m. 3.0 p.m. (from Lwów)—For Invalids. 3.15 (from Lwów)—Seredynski Orchestra. 3.45—For Children. 4.0—Report from the Institute of Anthropology, Cracow. 4.15—Poem. 4.20—Handel and Bach Chamber Music. Sophie Adamska (Cello), Wysocka-Ochlewska (Pfte.), Ochlewski and Zygodlo (Violins). 4.50—Sports. 5.0 (from Poznań)—Variety. 5.30—Topical. 5.40—Literary and Art Notes. 5.45—Announcements. 5.55—For Farmers. 6.5—Announcements. 6.35—Sports. 6.50—Talk. 7.0—Topical Monologue. 7.10—Abraham Operetta Music. Station Orchestra. Conductor: Nawrot. Marie Karwowska and Poplawski (Songs). The Station Trio. Selection, "Viktoria and her Hussar," "The Flower of Hawaii" and "Ball at the Savoy." 8.0—News. 8.10—Talk: Poland To-day. 8.15—French Music. Mme. Argasińska (Songs) and Szaleski (Viola). Viola: (a) Chaconne (Marias), (b) Les chérubins (Couperin). Songs: (a) Le voyageur (Fauré), (b) Nell (Fauré), (c) Au jeune gentilhomme (Roussel), (d) Quand reverrai-je, hélas (Caplet). Viola: (a) Minuet and Nocturne (Debussy), (b) Berceuse and Habanera (Ravel). Song: Autonne (Honegger). Songs (Debussy). 9.0—Christmas Carols in Esperanto. 9.20—Light Music. Station Orchestra. Conductor: Górzyski. 9.50—Dance Music.

SATURDAY Dec. 28

2 p.m.

ATHLONE, Records. 2.30—Talk.
BERLIN Markets. 2.10—Songs, (Talk).
BRESLAU, 2.10—Songs, (Talk).
BRATISLAVA, Light Orchestral Concert.
COLOGNE, For Children, Markets, Talk.
DEUTSCHLANDSENDER, Weather, Exchange, Talk, Economics, Talk.
EIFFEL TOWER, Educational Notes, Review, Report, Exchange. 2.30—Jazz Band.
FRANKFURT, Economics Report, Markets, For Hitler Youth.
HAMBURG, For Children, Exchange, Shipping. **HILVERSUM** (1,875 m.), For Young People, Sports Talk, For Children. **HILVERSUM** (301.5 m.), Records, Talk.
KALUNDBORG, For Children, Orchestra and Songs. **KÖNIGSBERG**, Markets, Exchange, Talk, For Children, Talk.
LEIPZIG, "Wer holt das Licht"? —Play for Children (Wittber). News. **LILLE**, 2.20—Exchange, 2.30—See Paris (PTT).
MOSCOW, 2.15—For Children. **MUNICH**, Chess Lesson, Soprano and Pfte. Records. Weather, Markets.
PARIS (PTT), Talks, Art Review, 2.30—Songs. **POSTE PARISIEN**, For Girls. **PRAGUE**, See Bratislava.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Reading, Records: Music at the Court of Versailles.
STOCKHOLM, For Children. **STRASBOURG**, Records (contd.), Markets. 2.30—See Paris (PTT).
STUTTART, For Hitler Youth.
VIENNA, Weather, Exchange, Mandoline Band.
WARSAW, Humorous Sketch, Shipping Notes, Exchange, Records.

3 p.m.

BERLIN, See Cologne. **BEROMÜNSTER**, Accordion Band. 3.30—See Monte Ceneri. **BRATISLAVA**, 3.50—For Children. **BRESLAU**, See Cologne.
COLOGNE, Variety.
DEUTSCHLANDSENDER, See Cologne.
EIFFEL TOWER, Christmas Message by Cardinal Verdier, Exchange. **FRANKFURT**, See Cologne.
HAMBURG, See Cologne. **HILVERSUM** (1,875 m.), For Children. 3.40—K.R.O. Boys. **HILVERSUM** (301.5 m.), Records.
KALUNDBORG, Orchestra (contd.). **KÖNIGSBERG**, See Cologne.
LEIPZIG, See Cologne. **LILLE**, See Paris (PTT). In the interval Exchange.
MONTE CENERI, 3.30—Pfte., Violin. **MOSCOW**, News, Records. **MUNICH**, See Cologne.
PARIS (PTT), Songs, Report in the interval. **POSTE PARISIEN**, 3.15—3.45—Exchange. **PRAGUE**, Weather, Records, For Children.
RADIO-NORMANDIE, Variety, Light Music. **RADIO-PARIS**, "After Christmas"—Sketch for Children.
SOTTENS, 3.30—For Children. **STOCKHOLM**, Orchestra, Talk. **STRASBOURG**, See Paris (PTT), Exchange. **STUTTART**, See Cologne.
VIENNA, News, Exchange, Talk in Italian. Readings. 3.55—Records. **WARSAW**, French Lesson, Balalaika Trio, Technical Letter-Box, Songs.

4 p.m.

BERLIN, See Cologne. **BEROMÜNSTER**, See Monte Ceneri. **BRATISLAVA**, For Children, Records, Film Review. 4.50—Hungarian Talk. **BRESLAU**, See Cologne. **BRNO**, 4.15—Records, Reading. 4.40—German Transmission: Songs, Pfte. **BRUSSELS (1)**, Talk, Records of Hahn Songs, Announcements, Talk. **BRUSSELS (2)**, Records, Announcements. **BUCHAREST**, Orchestra. **BUDAPEST (1)**, 4.30—Jazz Band.
COLOGNE, Variety.
DEUTSCHLANDSENDER, See Cologne.
EIFFEL TOWER, Talk, Exchange, Markets, Talks.
FRANKFURT, See Cologne.
HAMBURG, See Cologne. **HILVERSUM** (1,875 m.), K.R.O. Boys, Records. **HILVERSUM** (301.5 m.),

Light Music. 4.40—Walis Orchestra.
KALUNDBORG, Orchestra, Exchange, Fish Markets. **KÖNIGSBERG**, See Cologne.
LEIPZIG, See Cologne. **LILLE**, Records, Exchange. 4.30—"Les Cloches de Corneville"—Records.
MONTE CENERI, Pfte., Violin 4.15—Act 4, "Rigoletto"—Opera (Verdi). Jazz Records.
MOSCOW, Records. **MUNICH**, See Cologne.
OSLO, Concert, For Children.
PARIS (PTT), Literary Talk, Talk, Variety. **POSTE PARISIEN**, 4.35, Exchange. **PRAGUE**, For Children, Reading, Records, For Farmers, For Workers. 4.55—Reading in German.
RADIO-NORMANDIE, Tea-Time Hour. 4.45—Children's Corner. **RADIO-PARIS**, Victor Pascal Orchestra. **ROME**, News. 4.15—Madami Quartet.
SOTTENS, For Children. **STOCKHOLM**, Pfte. Quintet in C (Atterberg). Sketch. **STUTTART**, See Cologne.
TURIN, News. 4.15—Dance Music. **VIENNA**, Music Talk, with Records. **WARSAW**, Talk, New Records, Talks.

5 p.m.

ATHLONE, 5.30—Peeps at the Programme, Tea-Time Music from a Cafe.
BERLIN, Talk. 5.15—Play with Music. **BEROMÜNSTER**, Records, For Young People. **BRATISLAVA**, Play in Hungarian, Talk, Records. **BRESLAU**, Talk, For Hitler Youth, Weather. **BRNO**, Songs and Pfte. (contd.), News, For Housewives, Literary Review, Telegraph Lesson. **BRUSSELS (1)**, Dance Music. **BRUSSELS (2)**, Café Concert. **BUCHAREST**, Talk, Orchestra. **BUDAPEST (1)**, Jazz Band, Greetings, Records.
COLOGNE, "Spinning"—Sequence with Songs. 5.45—Weather, Markets, Sports, Call of Youth.
DEUTSCHLANDSENDER, Folk Songs and Dances, Sports.
EIFFEL TOWER, Records. 5.15—Poulet Concert of Russian Music. **FRANKFURT**, Talk. 5.20—Surprise Programme, Report, Topical, News. **HAMBURG**, Talks, Weather, Harbour Notes. **HILVERSUM** (1,875 m.), Records, Esperanto Talk. 5.25—K.R.O. Orchestra. **HILVERSUM** (301.5 m.), Walis Orchestra. 5.20—Literary Talk. 5.40—Organ.
KALUNDBORG, 5.12—Poem, Talk, Weather. **KÖNIGSBERG**, Talk, Markets, Organ, Topical Report.
LEIPZIG, Talks, Call of Youth. 5.45—Wind Band. **LILLE**, Records (contd.).
MOSCOW, 5.30—Station Trio. **MUNICH**, Reading, Legal Talk, Preludes and Fugues (Bach), Topical Talk.
OSLO, For Children, Talk, News. **PARIS (PTT)**, Variety. **PRAGUE**, Reading (contd.), Camillo Horn Music, News (German), Record.
RADIO-NORMANDIE, Dance Music. 5.15—Opera Music, Orchestra. **RADIO-PARIS**, Economic Review, Talk, Saint-Saëns Records. **ROME**, Markets, Lottery Results. 5.10—Rural Programme, Announcements.
SOTTENS, Chimes, Folk Music Records, Book Review, Dances and Songs. **STOCKHOLM**, Records. **STRASBOURG**, For Farmers, 5.15—Concert from Eiffel Tower. **STUTTART**, Sound News. 5.30—Tragi-Comedy (Torwald).
TURIN, Markets, Lottery Notes, For Women, News.
VIENNA, Folk Songs, Review.
WARSAW, For Children, Literary Review, Topical Talk, Announcements, Reading.

6 p.m.

ATHLONE, Tea-Time Music, Records, Talk, News.
BERLIN, 6.40—Excerpts, Fifth Symphony (Bruckner). **BEROMÜNSTER**, Chimes, News, Talks. **BRESLAU**, To be announced. 6.45—Topical. **BRNO**, 6.15—Station Orchestra and Soloists. **BRUSSELS (1)**, Records, Book Talk. 6.30—Pfte. Recital. **BRUSSELS (2)**, Talk: Nationalism in Opera. **BUCHAREST**, News, Records. 6.30—"The Holy Night" Opera (Brediceanu). **BUDAPEST (1)**, Records, Margit Szmaj-Kalos Programme.
COLOGNE, Station Trio. In the interval: Recitations. 6.50—Snapshots.
DEUTSCHLANDSENDER, Band, Discussion.

EIFFEL TOWER, Concert (contd.). **FRANKFURT**, Concert. 6.55—Call of Youth.
HAMBURG, Orchestra. **HILVERSUM** (1,875 m.), Press Review, Records. 6.40—Police Messages, Talk. **HILVERSUM** (301.5 m.), Organ. 6.10—Choir, Talk. 6.40—Folklore Programme.
KALUNDBORG, News, Talk. **KÖNIGSBERG**, Weather; Local News, Talk, Programme for Ex-Servicemen.
LEIPZIG, Wind Band, "Mothers, at Christmas-time"—Sequence (Baumann), Review. **LILLE**, Records, Talks.
MONTE CENERI, Records, Weekly Review, News. **MOSCOW**, Station Trio. 6.30—German Music for Pfte. and Tenor. **MUNICH**, Call of Youth, Contralto, Pfte.
OSLO, News, Talk.
PARIS (PTT), Variety, News, Topical Review. **POSTE PARISIEN**, 6.15—Exchange, Address, Talk, Foreign Press Review. **PRAGUE**, News, Political and Economic Reviews. 6.15—See Brno.
RADIO-NORMANDIE, For Children, News. **RADIO-PARIS**, Art Talk and Review, Records. **ROME**, Tourist Talk in Esperanto. 6.20—News in English and French.
SOTTENS, Dances and Songs. 6.55—Lecture Recital: Organ Music from the 16th to the 20th Century. **STOCKHOLM**, News. 6.30—Cabaret. **STRASBOURG**, See Eiffel Tower. **STUTTART**, Variety.
TOULOUSE, Exchange, Orchestra, Sound Film Music, Orchestra, News, Operetta Airs. **TURIN**, News in Foreign Languages.
VIENNA, News. 6.10—"The Queen's Kerchief"—Operetta (Strauss).
WARSAW, Announcements, Sports, Topical Talk.

7 p.m.

ATHLONE, A Visitor interviewed, Station Orchestra, Mirror of Gaeldom.
BERLIN, News. 7.10—See Breslau. **BEROMÜNSTER**, Talk, Weekly Review. 7.30—Popular Programme—Band, Songs, Readings. **BRATISLAVA** 7.30—Talk. **BRESLAU**, News. 7.10—Marches. **BRUSSELS (1)**, Records, Fashion Talk. **BRUSSELS (2)**, Pfte. Recital, Film Review. **BUCHAREST**, "The Holy Night" (contd.). **BUDAPEST (1)**, Margit Szmaj-Kalos Programme. 7.15—Opera Orchestra.
COLOGNE, News. 7.10—Evening of Surprises.
DEUTSCHLANDSENDER, News. 7.10—See Hamburg.
EIFFEL TOWER, Concert (contd.). 7.15—News, International Affairs, Talk.
FRANKFURT, News. 7.10—"Die Waffen der Frauen"—Radio Operetta.
HAMBURG, News. 7.10—Old Favourites—Concert, Dance Band, Choir and Soloists. **HILVERSUM** (1,875 m.), Talk, Records, News, Announcements, Records. **HILVERSUM** (301.5 m.), Folklore (contd.). 7.25—Records, News. 7.55—Light Music.
KALUNDBORG, 7—10 p.m.—Programme for Young People: "All's well on board"—Nautical Revue. **KÖNIGSBERG**, News. 7.10—See Munich.
LEIPZIG, News. 7.10—Dance Programme. **LILLE**, Talks, Records, Talk.
MONTE CENERI, Folk Play, In the interval: Records. **MOSCOW**, Variety. **MUNICH**, News. 7.10—"Good Fare"—A Musical Treat—chestra and Soloists.
OSLO, Orchestra. 7.30—Christmas Ball for Swedes and Norwegians.
PARIS (PTT), Topical Review, Weather. 7.38—Recital of Unpublished Music. **PARIS (Radio-Cité)**, Racing, News, Topical Talks, Records. **POSTE PARISIEN**, Sports Notes, Talk, News, Amusements, Topical Talk, Film Music, Records. **PRAGUE**, Choir. 7.30—See Bratislava. 7.55—Act II, "In that Green Meadow" (Benes).
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Records. 7.38—Lecture Recital: Old Operetta Music, Reading. **ROME**, News, Lottery Results. 7.30—Symphony Concert. In the interval: Talk.
SOTTENS, Lecture-Recital (contd.). 7.20—Christmas Carols. **STOCKHOLM**, Cabaret, 7.30—Recital on Two Pftes. **STRASBOURG**, See Eiffel Tower. 7.15—French Lesson. **NEWS. STUTTART**, News. 7.10—See Cologne.
TOULOUSE, Orchestra, Cigány Band, News. 7.45—Concert. **TURIN**, News, Lottery Results. 7.15—"Lohengrin" (Wagner) from La Scala, Milan.
VIENNA, Operetta (contd.).

WARSAW, Popular Music, News, Talk.

8 p.m.

ATHLONE, "Land of Happiness"—Play from the Torch Theatre, Dublin.
BERLIN, See Breslau. **BEROMÜNSTER**, News. 8.10—Popular Programme (contd.). **BRATISLAVA**, Reading. 8.15—Folk Play with Songs (Rehor). **BRESLAU**, Marches. **BRUSSELS (1)**, "Der Rosenkavalier"—Concert Version. **BRUSSELS (2)**, Radio Orchestra and Soprano. 8.40—"Two Generations"—Play. **BUCHAREST**, "The Holy Night" (contd.). 8.30—Weather, News, Sports Notes, Orchestra. **BUDAPEST (1)**, Opera Orchestra, News.
COLOGNE, An Evening of Surprises (contd.).
DEUTSCHLANDSENDER, See Hamburg.
EIFFEL TOWER, Home Affairs, Talk. 8.45—"The School for Scandal"—Play (Sheridan).
FRANKFURT, Operetta (contd.).
HAMBURG, Old Favourites (contd.). **HILVERSUM** (1,875 m.); Records. 8.10—Christmas Story, Records. **HILVERSUM** (301.5 m.), Light Music. 8.40—Pruis and Stella Seemer.
KALUNDBORG, "All's well on board" (contd.). 8.30—"Rococo"—Sequence, News. **KÖNIGSBERG**, See Munich.
LEIPZIG, Dance Programme. **LILLE**, Sports, Records, Orchestra. **MONTE CENERI**, Folk Play (contd.). 8.10—Orchestra. **MOSCOW**, German Programme. **MUNICH**, "Good Fare"—Musical Treat (contd.).
OSLO, Christmas Ball (contd.), In the interval: News.
PARIS (PTT), Talk, Cinema Review; Talk. 8.30—"La Causerie des Jeunes"—Revue. **PARIS (Radio-Cité)**, Jamban, Bach and Laverne, Talk, Records, Soloists. **POSTE PARISIEN**, Records, Concert, Variety. **PRAGUE**, "In that Green Meadow" (contd.).
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Jacques Feline Concert, with the Composer, Review. 8.45—"Esclarmonde" (Massenet). **ROME**, Concert (contd.), News.
SOTTENS, News. 8.15—Joseph and Johann Strauss Concert. **STOCKHOLM**, Light Music, News. **STRASBOURG**, News (German), Sports Review. 8.45—See Radio-Paris. **STUTTART**, See Cologne.
TOULOUSE, Concert, Viennese Orchestra, Songs, Marches. **TURIN**, "Lohengrin" (contd.). In the intervals: Book Review, Talk.
VIENNA, Operetta (contd.). 8.35—Film Review.
WARSAW, Programme for Poles abroad. 8.45—Variety.

9 p.m.

ATHLONE, Newcomers' Hour Winner, Talk, Variety.
BERLIN, News, Gymnastics, Report. 9.30—Variety Concert. **BEROMÜNSTER**, Dance Records, Review. **BRATISLAVA**, Folk Play (contd.). 9.30—News in Hungarian. **BRESLAU**, News, Ice Hockey Championship Report. 9.40—Dance Band. **BRUSSELS (1)**, "Der Rosenkavalier" (contd.). **BRUSSELS (2)**, Radio Orchestra (contd.). **BUCHAREST**, Orchestra, News in French and German. **BUDAPEST (1)**, Cigány Band.
COLOGNE, News. 9.20—Report: German Tennis Table Championships. 9.35—Variety from Leipzig.
DEUTSCHLANDSENDER, News. 9.30—Clarinet and Pfte., Weather.
EIFFEL TOWER, "The School for Scandal" (contd.).
FRANKFURT, News. 9.30—See Leipzig.
HAMBURG, News, Musical Interlude. **HILVERSUM** (1,875 m.), Records. 9.10—Hungarian Programme. **HILVERSUM** (301.5 m.), Pruis and Stella Seemer. 9.10—Records, Talk, Accordion Band, News.
KALUNDBORG, Variety. **KÖNIGSBERG**, News, Light Music and Dance Music.
LEIPZIG, News. 9.30—Variety Concert. **LILLE**, Orchestra.
MONTE CENERI, Weather, Records. **MOSCOW**, French Programme. **MUNICH**, News. 9.20—Programme to be announced.
OSLO, Topical Talk, Christmas Ball (contd.).
PARIS (PTT), Revue (contd.). **PARIS (Radio Cité)**, Records, Talk from America. **POSTE PARISIEN**, Variety. 9.10—Dance Music by a Jazz Band. 9.35—News. **PRAGUE**, "In that Green Meadow" (contd.), News, Sports,

Records. 9.45—Dvorsky Dance Band.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, "Esclarmonde" (contd.). **ROME**, Dance Music. 9.30—News.
SOTTENS, Strauss Concert (contd.). 9.15—Dance Music from Lausanne. **STOCKHOLM**, Dance Orchestra. **STRASBOURG**, See Radio-Paris. **STUTTART**, News. 9.30—See Leipzig.
TOULOUSE, Concert Version, "Moineau"—Operetta (Beydts). Orchestra, Music-Hall. **TURIN**, "Lohengrin" (contd.).
VIENNA, News. 9.10—Pfte. 9.50—Announcements.
WARSAW, Variety, 9.15—Station Orchestra with Violin Solos.

10 p.m.

ATHLONE, Variety, News, Light Music.
BERLIN, Variety Concert. **BEROMÜNSTER**, Weather. **BRESLAU**, Dance Band. **BRUSSELS (1)**, News, 10.10—Chess. 10.25—Dance Music. **BRUSSELS (2)**, News. 10.10—Dance Music from the Pole Nord. **BUCHAREST** Orchestra. **BUDAPEST (1)** Cigány Band, 10.10—Jazz Band.
COLOGNE, See Leipzig.
DEUTSCHLANDSENDER, Dance Bands.
EIFFEL TOWER, "The School for Scandal" (contd.).
FRANKFURT, See Leipzig.
HAMBURG, See Deutschlandsender. **HILVERSUM** (1,875 m.), News, Hungarian Music. **HILVERSUM** (301.5 m.), News. 10.10—Violin, Variety.
KALUNDBORG, Preil's Radio Dance Band. **KÖNIGSBERG**, Light Music and Dance Music.
LEIPZIG, Variety Concert. **LILLE**, Orchestra, News.
MOSCOW, Swedish Programme. **MUNICH**, Dance Music.
OSLO, Christmas Ball (contd.).
PARIS (PTT), Revue (contd.), News. 10.45—Dance Music. **PARIS (Radio Cité)**, News. 10.15—Brandenburg Concerto No. 2 on Records. **POSTE PARISIEN**, 10.30—Variety. **PRAGUE**, Dvorsky Dance Band.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, "Esclarmonde" (contd.). 10.45—Dance Music.
SOTTENS, Dance Music. **STOCKHOLM**, Dance Records, Orchestra. **STRASBOURG**, See Radio-Paris. 10.30—Dance Music. **STUTTART**, See Deutschlandsender.
TOULOUSE, Music-Hall (contd.). Opera Arias, News, Argentine Band. **TURIN**, "Lohengrin" (contd.), News in Italian and Spanish.
VIENNA, Announcements. 10.5—Rauscher Jazz Band.
WARSAW, Weather, Dance Music.

11 p.m.

BERLIN, Variety Concert. **BRUSSELS (1)**, Dance Music. **BRUSSELS (2)**, Dance Music.
DEUTSCHLANDSENDER, Dance Bands.
FRANKFURT, See Stuttgart. **HAMBURG**, See Deutschlandsender. **HILVERSUM** (1,875 m.), Records. **HILVERSUM** (301.5 m.), Cymbalome. 11.10—Mignon Quintet. **KALUNDBORG**, Preil's Radio Dance Band.
OSLO, Christmas Ball (contd.).
PARIS (PTT), Dance Music. **PARIS (Radio-Cité)**, Relay from the Bolero. **POSTE PARISIEN**, Variety.
RADIO-NORMANDIE, Variety. **RADIO-PARIS**, Dance Music. 11.15—Light Music.
STRASBOURG, Dance Music. **STUTTART**, Records.
TOULOUSE, Light Music, Chansonnets, Dance Music, Operetta Arias.
VIENNA, Rauscher Jazz Band.

12 midnight

FRANKFURT, See Stuttgart.
PARIS (Radio-Cité), News, 12.15—Relay from the Bolero.
RADIO-NORMANDIE, Vaudeville and Dance Records. **RADIO-PARIS**, Light Music.
STUTTART, Records.
TOULOUSE, Light Music, News, Marches.

1 a.m. (Sunday)

RADIO-NORMANDIE, Dance Records.

NATIONAL

For Time Signals, see Monday
10.15 a.m. (Droitwich)—Service.
10.30 (Droitwich)—Weather Forecast.
10.45—Parliament as Your Member
See It. Capt. A. Cunningham-Reid, M.P.
11.0—BBC Northern Orchestra; Dorothy Pearce (Soprano).
12.15 p.m.—Records.
1.0 (Droitwich)—Commodore Grand Orchestra.
2.0 (Droitwich)—Scottish Studio Orchestra.
3.0 (Droitwich)—Cinema Organ (Harold Ramsay).
3.30 (Droitwich)—Dorothy Hogben's Singers and Players.
4.15—Regional King Orchestra; Gladys Palmer (Contralto).
5.15—BBC Dance Orchestra.
6.0—"The First News."
6.25—Interlude.
6.30—Sports Talk—"Ice Hockey," by E. H. Green.
6.45 (ex. Droitwich)—Nora d'Argel (Soprano): My Heart, Bird of the Wilderness (Mallinson), Go from my Window (Sixteenth Century Air), The Rivulet (Martin Shaw), Cradle Song (Delius), A Christmas Song (Louis Urgel), Wind Song; The Flower Girl; Kate, Jack, the Wind (Benjamin).
7.45 (Droitwich)—Welsh Talk.
6.45 (ex. Droitwich)—The Saturday Magazine.
7.45—BBC Military Band: Overture to an Irish Comedy (John Ansell), Fantasy (The Fantastic Toyshop) (Rossini-Respighi), Scherzo, Op. 52 (Schumann), Ballet Music, Prince Igor (Borodin).
8.30—Music Hall. Norman Long, Jack Barty, Lily Morris, Rupert Hazell and Elsie Day, Marie Burke, BBC Variety Orchestra.
9.30—"The Second News."
10.0—BBC Orchestra, conducted by Joseph Lewis; Joseph Hislop (Tenor). Overture, Vienna Jubilee (Suppé). Arias: Your tiny hand is frozen, La Bohème (Puccini), The Flower Song, Carmen (Bizet); Tone Poem, Mannin Veen (Haydn Wood); Songs: Isobel (Frank Bridge), The Fairy Tree (O'Brien), The Kerry Dance (Molloy); Fantasy, Cinderella (Eric Coates).
11.0-12.0 (Droitwich)—Happy Weekend. A Farewell Postscript.

REGIONAL

For Time Signals, see Monday
10.15-10.45 a.m. (ex. Midland)—Droitwich.
10.45—Cinema Organ.
11.15—Norbert Wethmar Trio.
12.0 noon—Orchestra.
1.0 p.m. (ex. Midland)—Droitwich.
4.15 (ex. Midland)—The Kentucky Minstrels Hold a Party.
4.15 (Midland)—"Cinderella."
5.0 (Midland)—Records.
5.15—Children's Hour.
6.0—"The First News."
6.30 (Regional, N. Ireland)—Phyllis Scott and John Rorke.
6.30 (Midland)—Dance Music.
6.30 (Western)—Records.
6.30 (Northern)—Houghton Novelty Quintet; W. B. MacMillan (Tenor).
6.30 (Scottish)—Queen's Park v. Dundee. League Match.
6.40 (Scottish)—The Miller Brothers (Pfte. and Violin).
6.45 (Western)—Welsh Talk.
7.0 (Regional, N. Ireland)—Quintet; Constance Willis (Contralto).
7.0 (Western)—Welsh Music.
7.0 (Scottish)—Heather Sextet.
7.15 (Northern)—Dance Music.
7.15 (Scottish)—Variety.
7.30 (Midland)—G. Mantle Child (Pianoforte).
7.30 (Western)—Welsh Talk.
7.45 (Scottish)—Heather Sextet.
7.50 (Western)—Records.
8.0—European Exchange (6). "Russia"; Gearmen Scerdliff and Guy Burgess.
8.30 (Regional)—Albert Sammons (Violin), William Murdoch (Pfte.).
8.30 (Midland)—Christ Church, Oxford, Organ (Thomas Armstrong).
8.30 (Western)—West Country Happenings of the past 25 Years.
8.30 (Northern)—"God Save the King" Variations on a National Theme.
8.30 (N. Ireland)—"I Remember..."
8.30 (Scottish)—"Bethlehem"—Nativity Play by Rutland Boughton.
9.10 (Scottish)—The Week in Scotland.
9.15 (Midland)—Sports Talk.
9.30 (ex. Western)—Medvedeff's Balalaika Orchestra.
9.30 (Western)—Records.
10.0—News Summary.
10.10 (Midland from 10.15; N. Ireland from 10.20)—Dance Records.
10.10 (Midland)—Programme Calendar.
10.10 (N. Ireland)—Variety.
10.30—Variety Orchestra.
11.0-12.0 (ex. Mid.)—Droitwich.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 60 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,240 kc/s (241.9 m.).
1.30-2.30 p.m.—Records. 5.30—Peeps at the Programme. 5.45—Tea-Time Music from a Dublin Restaurant. 6.15—Records. 6.30—Talk: Earthquakes. 6.45—News. 7.0—A Visitor interviewed on the Radio. 7.15—Station Orchestra. 7.45—Mirror of Gaeldom. 8.0—"Land of Happiness"—Christmas Play from the Torch Theatre, Dublin. 9.0—Newcomers' Hour Winner. 9.10—Talk by Prof. Stockley and Seamus McCall; St. Thomas More. 9.30—Variety. 10.30-11.0—News; Music.

BARCELONA (EAJI) (Spain)

795 kc/s (377.4 m.); 7.5 kW.
7.15 a.m.—News; Records. 8.0—Chimes; Records. 8.20—News; Records. 9.0—Obituary. 11.0—Chimes; Weather. 12.0 noon—For Women; Records. 12.30 p.m.—Announcements; Records. 1.20—Theatre and Amusement Guide; Records. 1.30—Film Review; Re-

Small Station Orchestra and Soloists. Conductor: Steiner.

BEROMÜNSTER

(Switzerland)
556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Bern, 1,375 kc/s (218.2 m.).
11.0 a.m.—Records: Wind Band. 11.29—Time; Weather; News. 11.40—Records. 12.25 p.m.—Time; Weather; Exchange. 12.30—Parliamentary Review. 12.45—Records. 1.0-1.30—Reading (Odermatt). 3.0—Accordion Band. 3.29—Time. 3.30-5.0—See Monte Ceneri. 5.0—Records. 5.30—For Young People. 6.0—Chimes from Zürich Churches. 6.15—Time; Weather; Market Prices. 6.20—Talk: Building and Working Methods in the Tropics. 6.50-10.0—Programme from Bern. 6.50—Talk: Arnold von Melchtal and Heinrich von Wenigshusen. 7.20—Weekly Review. 7.30—Popular Programme. Peasant Band, Berne Yodel Club and Grilli Wenger (Yodels), Triebold (Humorous Songs), "Heinrich and Mizzi Wolf (Zither Duets), and Brügger (Humorous Readings). 8.0—Weather; News. 8.10—Popular Programme (contd.). 9.5—Dance

Ein Festtag (Marquart). Song (Zwirner). Ballet Waltz (van de Velde). Suite. Tanzweisen (Tiedemann). Waltz, Gold and Silver (Lehar). Funk-Suite (Mondfahrt) (Schmalstich). Eisblumen (Leuschner). Albulblatt (Gyldmark). Tales from the Orient (Strauss). March, Treue Brüder (Casper). In the interval at 12.0 noon: News.
1.0—News; Exchange; Announcements. 1.45—Greetings; Markets. 2.10—Fielitz Songs by Edith Baumert-Ossadnik (Soprano). 2.40—Talk. 3.0—See Cologne. 5.0—Literary Talk. 5.30—For Hitler Youth. 5.50—Weather. 6.0—To be announced. 6.45—Topical. 7.0—News. 7.10—Silesian Regimental Marches by a Military Band. Conductor: Kiefer. 9.0—News. 9.20—Report: The Silesian Ice-Hockey Championship. 9.40-11.0—Station Dance Band.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW.
5.15 a.m.—See Prague. 6.30—Records. 7.0—Gym. 8.30—See Prague. 8.45—See Bratislava. 8.50-9.15 See Prague.

SATURDAY (December 28)

4.15—Records: Hahn Songs. Paysage. D'une prison. L'heure exquise. Si mes vers avaien des ailes. Sérénaphie. Offrande. Cimetièrre de campagne. L'incrédule. La dernière valse.
4.40—Announcements. 4.45—Talk.
5.0—Dance Music by Mickey's Club Orchestra, from the Saint-Sauveur Palais de Danse. Conductor: Halle.
6.0—Records. Oriental Dance (White). Follets caprice (Hasselemans). March, "Sigurd Jorsalfar" (Grieg).
6.15—Talk arranged by "Het Fransche Boek."
6.30—Emile Wilmars (Pfte.). Toccata from the Partita in E minor (Bach). Sonata in D (Beethoven).
7.0—Records. Trio (Beethoven). Miller's Dance (Falla). 7.30—Fashion Talk for Women.
8.0—Concert Version, "Der Rosenkavalier"—Opera (Strauss). Symphony Orchestra. Conductor: Defauw. 10.0—News. 10.10—Chess Match between MM. Van Seters and Schernetsky. M. Demey (Commentator). 10.25-12.0 m.—Dance Music by Jim Matherson and his Boys from Maxim's Cabaret.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
6.37-9.0 a.m.—Records; News; Gym. 12.0 noon: José Schnyders Orchestra. 1.0 p.m.—News. 1.10—José Schnyders Orchestra. 2.0—Shipping. 4.0—Records. Easter Overture (Rimsky-Korsakov). Harp Concerto in C minor (René). Suite (Dohnányi). 4.55—Announcements. 5.0—Eralogoff Orchestra from the Brasserie Torenkelder, Antwerp. 6.0—Talk: Nationalism in Opera—Mussorgsky and Rimsky-Korsakov. 7.0—Mrs. Lundgren (Pfte.). Tempo di ballo (Scriabini). Sonata in B flat (Balakirev). 7.30—Film Review. 8.0—Radio Orchestra. Conductor: Douliez. Maria Van der Meirsch (Soprano). Overture, "Cosi fan tutte" (Mozart). Invitation to the Waltz (Weber). Aria, "Der Freischütz" (Weber). Scherzo, "A Midsummer Night's Dream" (Mendelssohn). Song: Träume (Wagner). Suite rhapsodique (De Jong). 8.40—"Two Generations"—Play (Pflger).
9.0—Radio Orchestra. Conductor: Douliez. Maria Van der Meirsch (Soprano). Stroom (Vermet). Libellules (Maes). Scene and Aria, "Hebbieke" (Verheyden). Carillon flamand (De Leeuw). Fantasia (De Leeuw). Fantasia (De Roye). Nocturne (Baeyens). Loustics en fête (Marsick). Petite Suite (Gilson). Marietta (Opsomer). 10.0—News. 10.10-12.0 m.—Dance Music from the Pôle Nord.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW.
10.30 a.m.—Time; Water-Level; Amusements. 10.35—Records. 11.15—Sports. 11.30—Records. 12.15 p.m.—News. 12.30—Records. 1.0—News. 4.0—Ionescu-Gaina Orchestra. In the interval at 5.0: Talk. 6.0—News. 6.15—Records. 6.30—"The Holy Night"—Opera (Brediceanu) from Brasov. 8.30—News. 8.45—Orchestra. 9.45—News (French, German). 10.0-11.0—Orchestra.

BUDAPEST (No. 1) (Hungary)

546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 9.20 a.m.
4.0—Ella Megyery. 4.30—Jazz Band. 5.15—Greetings. 5.45—Gramophone Review. 6.45—Margit Szirmai-Kalos. 7.15—Opera Orchestra. Conductor: Rajter. Livia Dobay and Mihály Székely (Songs). Overture, "Phèdre" (Massenet). Aria, "Il Trovatore" (Verdi). Ballet Music, "Aida" (Verdi). Aria, "Don Carlos" (Verdi). Intermezzo, "The Queen of Sheba" (Goldmark). Aria and Duet, "The Force of Destiny" (Verdi). Suite, "The Snow Maiden" (Rimsky-Korsakov). 8.45—News. 9.5—Magyarí Cigány Band. 10.10—Sándor Salon and Jazz Band. 11.5—News.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW.
5.0 a.m.—Hymn; Gym. 5.30-7.0—See Breslau. 7.0—Gym. 7.15—Weather; Water Level. 7.20-7.30—Talk. 9.0—News; Water Level. 9.10—For Children. 9.30—Sketches (Schäferdiek) with Pfte. Interludes. 10.20—Sports Talk. 10.30—Announcements. 11.0—See Stuttgart. In the interval at 12.0 noon—News; Greetings. 1.0 p.m.—News. 1.15—Variety from Deutschlandsender. 2.0—For Children. 2.30—Markets.

PRINCIPAL EVENTS

SYMPHONY CONCERTS

P.M.
5.15 Eiffel Tower, Strasbourg: Russian music.
7.25 Rome: Beethoven, "Pastoral," etc.
8.10 Monte Ceneri: Vivaldi, Mozart, etc.
LIGHT CONCERTS
4.0 Radio-Paris: Pascal Orchestra.
7.0 Oslo: Popular orchestral.
7.0 Prague: Choir.
7.15 Budapest 1: Popular opera music.
7.30 Beromünster: Popular programme.
8.0 Stockholm: Light programme.
8.0 Warsaw: Polish programme.
8.15 Sottens: Joh. and Jos. Strauss.
9.5 Budapest 1: Cigány band.
9.10 Hilversum (1,875 m.): Hungarian.
9.15 Warsaw: Orchestra, violin.
9.30 Leipzig, etc.: Variety Concert.
10.0 National: Lewis, Joseph Hislop.
11.15 Radio-Paris: Light orchestral.

OPERAS

6.30 Bucharest: "The Holy Night."
7.15 Turin: "Lohengrin" (La Scala).
8.0 Brussels 1: "Der Rosenkavalier."
OPERETTAS
6.10 Vienna: "The Queen's Kerchief."
7.10 Frankfurt, etc.: "Die Waffenden Frauen" (Lincke).
7.55 Prague: "In that Green Meadow" (Benes), Act 2.

Records. 1.55—Film Notes. 2.0—News; Light Music.
3.0—For Hospitals. 3.15—News. 3.30—Amateurs at the Microphone. 4.0—Records. 6.15—Talk in Catalan. 6.30—For Children; Records. 7.30—News. 7.45—Exchange. 8.0—Sports; Records. 8.45—Announcements.
9.5—Station Orchestra. March (Ganglberger). Pastoral Rondo on a Beethoven Theme (Tavan). Aragonese (Falla). Polonaise, "Boris Godunov" (Mussorgsky).
9.30—Catalan Songs.
9.45—Station Orchestra. Hunting Song (Mendelssohn). Dance of the Tumbler (Rimsky-Korsakov). 10.5—News.
10.20—Excerpts, "Tosca"—Opera (Puccini). In the interval at 10.30: Talk. After the Opera: Records. 12.0 m.—News.

BERLIN (Germany)

841 kc/s (356.9 m.); 100 kW.
5.0 a.m.—Greeting; Hymn; Motto; Weather; Gym. 5.30-7.0—See Breslau. 7.0-7.35—Gym. 8.40—Gym. 9.0—Markets. 10.55—Weather.
11.0—See Stuttgart. In the interval at 12.0 noon: Wilhelm Ehlers at the microphone. 1.0—News. 1.15—Dance Music by the Eugen Jahn Band. 2.0—Markets. 2.30—Talk: The Mark of Brandenburg.
3.0—See Cologne. 5.0—Sports Talk. 5.15—"The Ball on the Island of Love"—Play (Heynicko), with Music. 6.0—Lotte Theile (Soprano), Maria von Kulmsieg (Pfte.), Prof. Pollack (Pfte.), Lothar Ritterhoff (Violin) and Alfred Schattschneider (Cello). 6.40—Excerpts, Fifth Symphony (Bruckner). 7.0—News.
7.10—See Breslau. 9.0—News. 9.20—Report on the Gymnastic Tournament in the Deutschlandhalle.
9.30-12.0 m.—Variety Concert by the

Records. 9.45—Parliamentary Review. 10.0—Weather.

BORDEAUX-LAFAYETTE

(France)
1,077 kc/s (278.6 m.); 30 kW. Transmits at intervals from 6.50 a.m.
6.30 p.m.—News; Review. 7.45—Records. 8.0—English Lesson. 8.15—News; Exchange. 10.30—News. 10.45—See Paris (PTT).

BRATISLAVA

(Czechoslovakia)
1,004 kc/s (298.8 m.); 13.5 kW.
5.15-6.30 a.m.—See Prague. 8.25—Announcements. 8.30—See Prague. 8.45—News. 8.50—See Prague. 9.10-9.15—News (Hungarian). 9.45—For Housewives. 10.0—Water Level. 10.5—Military Band. 10.55—See Prague. 11.10—News. 11.15—Record. 11.25-12.40 p.m.—See Prague. 12.40—News (German, Hungarian). 12.50—See Prague. 1.0-1.5—Shipping.
2.0—Light Music. Station Orchestra. Conductor: Vincourek. Karel Kalas (Songs) and Ibi (Violin). 3.0—See Prague. 3.50—For Children. 4.25—Record. 4.30—Film Review. 4.50—Hungarian Transmission: Talk: Play. 5.25—Talk. 5.35—Records. 5.45—See Prague. 6.15—See Brno. 7.0—See Prague. 7.30—Talk. 7.55—Reading. 8.15—Folk Play with Songs (Rehor). 9.15—See Prague. 9.30—News (Hungarian). 9.45-10.30—See Prague.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz, 1,231 kc/s (243.7 m.).
4.0 a.m.—Station Dance Band. 5.0—Hymn; Motto; Gym. 5.30-7.0—Orchestra, Quartet and Zither. In the interval at 6.0—News. 9.45-10.15—For Children. 10.30-10.45—Weather. 11.0—Station Orchestra. Conductor: Rischka. Pressemarsch (Meinecke)

8.45 Radio-Paris, Strasbourg: "Esclarmonde" (Massenet), excerpts.

CHAMBER MUSIC

4.5 Stockholm: Pfte. quintet (Atterberg).
6.0 Cologne: Trios (Haydn, Heuser).

RECTALS

3.15 Warsaw: Balalaikas.
7.0 Brussels 2: Pianoforte.
7.20 Sottens: Carols.
7.30 Stockholm: Two pianofortes.
8.0 Radio-Paris: Pianoforte, song.

PLAYS

7.0 Kalundborg: A Play of the Sea.
8.0 Athlone: Christmas Play.

8.45 Eiffel Tower: "The School for Scandal."

DANCE MUSIC

4.30 Budapest 1; 5.0, Brussels 1; 7.10, Leipzig; 9.0, Stockholm; 9.5, Beromünster; 9.10, Poste Parisien; 9.15, Sottens; 9.45, Prague; 10.0, Deutschlandsender, Kalundborg, Munich; 10.5, Vienna, Warsaw; 10.10, Brussels 2, Budapest 1; 10.25, Brussels 1; 10.30, Strasbourg; 10.45, Paris (PTT), Radio-Paris; 12.0, Radio-Normandie.

MISCELLANEOUS

3.0 Cologne, etc.: "Saturday Afternoon."
6.30 Stockholm: Cabaret.
7.10 Munich: Variety.
7.30 Oslo: Christmas Ball.
8.30 National: Music Hall.
9.5 Kalundborg: Christmas Variety.

SATURDAY (December 28)

2.40—Talk: A Germanic Peasant Settlement. 3.0—Variety Concert. The Three Merry Fellows; the Station Orchestra and Soloists. Conductor: Eysoldt. 5.0—"Spinning"—A Sequence with Songs. 5.45—Weather; Markets; Sports. 5.50—Call of Youth. 6.0—Station Trio. Trio in G (Haydn). Trio in D minor (Heuser). In the interval: Recitations. 6.50—Snapshots. 7.0—News. 7.10—Evening of Surprises. 9.0—News. 9.20—Report from Gelsenkirchen: The German Table Tennis Championship. 9.35-11.0—Variety Concert from Leipzig.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. 5.0 a.m.—Chimes; Motto; Hymn; Weather; Gym. 5.30-7.30—Otto Dobrindt Band. News in the interval. 8.40-9.00—Gym. 9.45—For Children. 10.15—Weather. 10.30—Talk: The Nobel Prize, 1935. 10.40—Talk for Farmers. 11.0—Orchestra from Saarbrücken. Conductor: Schmeisser. Overture, "Carnaval roman" (Berlioz). Prelude, Act 5, "King Manfred" (Reinecke). Norwegian Rhapsody No. 3 (Svendsen). Selection, "Hansel and Gretel" (Humperdinck). Overture, "Le femme litigieuse" (Cardoni). Selection, "Eva" (Lehár). In the interval at 11.55: Time and Greetings. 12.45 p.m.—News.

1.0—Variety. 2.0—Weather; Exchange; Programme Notes. 2.10—Talk: Ski-ing. 2.30—Economics Report. 2.45—Talk. 3.0—See Cologne. 5.0—Folk Songs and Folk Dances. 5.40—Weekly Sports Report. 6.0—Barnabas von Geczy Band. 6.45—Topical Discussion. 7.0—News. 7.10—See Hamburg. 9.0—News. 9.30—Fantasia and Variations (Kreutzer) by Krüger (Clarinet) and Jäger (Pfte.). 9.45—Weather. 10.0-12.0 m't—Dance Music by the Barnabas von Geczy and Adalbert Lutter Bands.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg, Kaiserslautern, and Trier, 1,195 kc/s (251 m.). 5.0 a.m.—Hymn; Motto; Gym. 5.30—See Breslau. In the interval at 6.0: Time; News. 7.0—Water Level; Time; Weather. 7.15—Gym. 7.45—For Peasants. 8.0—News. 10.0—Concert. 10.35—Programme Announcements; Exchange; Weather. 10.45—Announcements. 11.0—See Stuttgart. In the interval at 12.00 noon: Time; News. 1.0 p.m.—1.10—Variety from Deutschlandsender. 2.0—Economics Report; Time; Markets. 2.15—For Hitler Youth. 3.0—See Cologne. 5.0—Talk: Joseph von Eichendorff. 5.20—Surprise Programme. 5.30—The Roving Microphone. 5.40—Topical Review. 5.55—Weather; Markets; Programme Announcements. 6.0 (from Cassel)—Concert. 6.55—Call of Youth. 7.0—Time; News. 7.10—"Die Waffen der Frauen"—Radio Opera after Lincke's "Lysistrata" (Metzger-Wehr). 9.0—Time; News. 9.30—See Leipzig. 11.0-1.0 a.m. (Sunday)—See Stuttgart.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Relayed by Bremen, Flensburg, Hanover, Magdeburg, and Stettin, 1,330 kc/s (225.6 m.). 5.0 a.m.—Motto; Gym. 5.25—Weather. 5.30-7.0—See Breslau. 7.0-7.15—For Housewives. 9.15—Christian Warnke Orchestra. Overture, "Si j'étais roi" (Adam). Waltz, Dorfschwalben aus Oesterreich (Strauss). Memories of Grieg (arr. Urbach). Potpourri, Musikalische Trümpfe (Noack). Pieces from the Suite Campestre (Scassola). 10.0—Announcements. 11.0—Weather; Shipping. 11.10—Concert from Stuttgart. In the interval at 12.00 noon: Weather and Midday Review. 1.0 p.m.—News. 1.20—Musical Interlude. 2.0 For Children. 2.20—Exchange. 2.40—Shipping. 3.0—See Cologne. 5.0—Talk: Walter Köster. 5.30—Talk: National Defence. 5.50—Weather; Harbour Notes. 6.0 (from Kiel)—Orchestra—Conductor: Döring. Otto Proft (Violin). Overture, "Zampa" (Hérold). Suite campestre (de Micheli). Ballet

Scene (Beriot). Selection, "Halka" (Moniuszko). Waltz, Hesperusklänge (Gungl). March, "Don Cesar" (Dellinger). 7.0—News. 7.10—"Old Favourites"—Concert of Music by Verdi, Puccini, Donizetti, Flotow, Lortzing, Kienzl, d'Albert, Leoncavallo, Mascagni, Bizet, Lehár, Millocker, Ziehrer, Komzak, and Old Berlin and Viennese Composers, including Johann Strauss and Lincke. Station Orchestra—Conductor: Secker. Dance Band—Conductor: Gebhardt. Male Voice Choir and Soloists. 9.0—News. 9.25—Musical Interlude. 10.0-12.0 m't—See Deutschlandsender.

HILVERSUM (1,875 m.) (Holland)

160 kc/s; 10 kW until 2.40 p.m.; 100 kW from 2.40 p.m. K.R.O. Programme. 7.40-8.55 a.m.—Records. 9.40—Records. 10.10—Records. 11.10—Religious Address. 11.40—Police Messages; Records. 12.10 p.m.—K.R.O. Orchestra. Conductor: van 't Woud; Records. 1.40—For Young People. 2.10—Sports Talk. 2.40—For Children. 3.40—K.R.O. Boys. Conductor: Lustenheuer; Records. 5.10—Esperanto Talk. 5.25—K.R.O. Orchestra. Conductor: van 't Woud. 6.0—Press Review; Records. 6.40—Police Messages; Talk; Records; News. 7.45—Announcements; Records. 8.10—Christmas Story; Records. 9.10—Hungarian Programme in the interval at 10.0; News. 11.5-11.40—Records.

HILVERSUM (301.5 m.) (Holland)

995 kc/s; 15 kW. until 2.40 p.m. and 60 kW from 2.40 p.m. 7.40 a.m.—V.A.R.A. Programme; Records. 9.40—V.P.R.O. Religious Programme. 9.55 till Close Down: V.A.R.A. Programme. 9.55—Recitation; Variety. 11.40—Records. 11.55—Lew's Radio Three and Records. 1.40—Records. In the interval at 2.45: Talk. 4.0—Light Music. 4.40—Walis Orchestra. 5.20—Literary Talk. 5.40—Foort (Organ). 6.10—De Wielewaal Choir; Talk. 6.40—Folklore Programme. 7.25—Records; News. 7.55—Light Music. 8.40—Pruis and Stella Seemer. 9.10—Records; Talk. 9.35—Steyn Accordion Band. 9.55—News. 10.10—Wiggelaar (Violin). 10.20—Variety. 11.0—Sipos (Cimbalom). 11.10-11.40—Mignon Quintet.

JUAN-LES-PINS (Radio Côte d'Azur) (France)

1,249 kc/s (240.2 m.); 0.8 kW. Transmits at intervals from 12.15 p.m. 8.0 p.m.—Talk. 8.15—News. 8.30—Station Orchestra. 9.0—News. 9.15—Variety. 10.15—News. 10.30—Dance Music.

KALUNDBORG (Denmark)

238 kc/s (1,261 m.); 60 kW. Relayed by Copenhagen, 1,176 kc/s (255.1 m.). 6.0 a.m.—Gym. 7.30—Cathedral Service. 10.0—Weather. 10.10—Fish Markets. 10.15—Talk for School Children: Christmas Holidays in a Log Hut. 11.0-1.0 p.m.—Magnussen String Ensemble. 2.0—For Children. 2.30—Radio Orchestra. Conductor: Gröndahl. Asta Lindelow (Songs). Overture, "Salvator Rosa" (Gomez). International Suite (Tchaikovsky). Selection, "La favorita" (Donizetti). Serenade No. 2 for Strings (Sokolow). Excerpt, "Das Fürstentkind" (Lehár). Swedish Folk Songs: (a) Jag vet en dejlig rosa, (b) Inga, liten kvarnpliga, (c) Dalvisva, (d) Westberpolska, (e) Orzopolska, (f) Lima limu läjma, (g) Dalpolska, (h) Fantasia, Drachmanniana. Minuet and Tambourin, "L'amour médecin" (Poise). Waltz, Dorfschwalben aus Oesterreich (Strauss). Selection "Le petit duc" (Lecocq). Pezzo sinfonico for Strings, Harpsichord, and Harp (Schroder). Scottish Patrol (Williams).

4.30—Exchange; Fish Markets. 5.12—A Poem. 5.15—Talk by Alfred Kjaerulf. 5.45—Weather. 6.0—News. 6.30—Talk. 7.0-10.0—Programme for Young People. Preil's Instrumental Ensemble and Soloists. 7.0—"All's Well on Board"—Scenes and Sailors' Songs by John Baadmand and his Crew. 8.30—"Rococo"—Musical and Literary Sequence. 8.50—News. 9.5—Variety. 10.0-11.30—Preil's Radio Dance Band. Helse Rungwald (Songs). Quickstep, Rhythms from China (Dekers). Foxtrot, Red Sails in the Sunset (Kennedy-Williams). Waltz, Rehearsing a Lullaby (Goodhart-Hoffmann). Rumba (Roger-Henry). Quickstep, Love's Serenade (Hayes-Kurtz-Mills). Tango (Fris). Foxtrot, Du er min Verden (Brösch-Ronicko). Blues, Skipperskrack

(Gensler). Savannah Blues (Garriguenc). Quickstep, A little Angel told me so (Coslow). Records; (a) Song, "A Kiss in Spring" (Kálmán), (b) Viennese Song (Fall), (c) Ten cents a dance (Rodgers), (d) Song (Sylvain), (e) Her name is Mary (Ramsey). Quickstep, Two together (Johnston). Tango (Cornelius). Melodies (Christensen). English Waltz (Budtz). Quickstep, Sweet Music (Dubin-Warren). English Waltz, Let me Sing You to Sleep with a Love Song (Gordon-Revel). Foxtrot, If I should lose you (Robin-Rainger). Quickstep, Saa rejser jeg med Amor til Hawaii (Bode).

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.). 5.3 a.m. Weather; Gym. 5.30-7.0—See Breslau. 7.0-7.10—Prayers. 7.30-8.0—Gym. 9.45—Weather. 10.30 (from Danzig)—Talk. 10.55—Weather. 11.0—See Stuttgart. In the interval at 12.00 noon: News. 1.0 p.m.—News; Announcements. 1.45—Technical Talk.



A German winter scene

2.0—Markets; Exchange. 2.10—Talk for Women. 2.20—For Children. 2.45—Talk: Unknown East Prussian Writers. 3.0—See Cologne. 5.0—Talk: East Prussia in Historical Narrative. 5.15—Markets. 5.20—Georg Jaecke (Organ). Passamezzo and Fugue in G minor (J. N. David). Four Pieces (Reger). 5.45—Topical Report. 6.0—Weather; Local News. 6.15—Talk. 6.30—For Ex-Servicemen. 7.0—News. 7.10—See Munich. 9.0—News. 9.20-11.0—Light Music and Dance Music. Station Orchestra. Conductor: Wilcken; Erich Börschel Dance Band.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW. Relayed by Dresden, 1,285 kc/s (233.5 m.). 5.0 a.m.—Hymn; Motto; Gym. 5.30-7.0—See Breslau. 7.0-7.20—Gym. 8.50—Weekly Economics Report. 9.0-9.15—Weather; Water Level; Programme Notes. 10.0—Announcements. 10.30—Weather. 10.45—Books for Country People. 11.0—See Stuttgart. In the interval at 12.00 noon: News. 1.0 p.m.—News; Exchange. 1.15—Variety from Deutschlandsender. 1.45—Book Review. 2.0 (from Dresden)—"Wer bolt das Licht?"—Play for Children (Wittber). 2.50—Weather; Markets. 3.0—See Cologne. 5.0—A Modern Dictionary. 5.15—Talk: Zoology and Palaeontology. 5.35—Call of Youth. 5.45 (from Dresden)—Wind Band. Conductor: Eix. March, Der Luftschutz auf der Wacht (Günther). Overture, "Zampa" (Hérold). Ein Vögel sang im Lindenbaum (Eberle). Die Teufelszunge (Schmidt). Potpourri, Schön ist die Jugend (Rhode). 6.30—"Mothers at Christmastime"—Sequence (Baumann). 6.55—Evening Review. 7.0—News. 7.10—"Between Christmas and New Year"—Dance Evening by the EmDe Orchestra, Grete Müller-Morelli, Erwin Hartung and Rilo Kube. 9.0—News. 9.30-11.0

(from Dresden)—Variety Concert by the Pletzsch Marko Orchestra and Inge Vesten (Songs). Gretelott Braxis (Commentator).

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.50 a.m. 2.20 p.m.—Exchange. 2.30—See Paris (PTT). 3.45—Exchange. 4.0—Records. 4.20—Exchange. 4.30—Records: "Les Cloches de Corneville"—Operetta (Planquette). 5.30—Records. 6.30—Topical Talks. 7.30—Records: Military Bands. 7.45—Cookery Talk. 8.0—Sports. 8.10—Records. 8.30—Station Orchestra. Conductor: Soret. Duforest (Tenor), Louise Cauchy (Soprano). March, Triomphe (Noret). Suite, "Phèdre" (Massenet). Overture, "Cosi fan tutte" (Mozart). Tenor: (a) Vous avez souri (Bonvoisin), (b) Aubade (Isore), (c), Le Nid (Costé). Impromptu (Noris). Waltz, Künstlerleben (Strauss). Selection, "Yes" (Yvain). Selection, "Il Trovatore" (Verdi). Soprano: (a) Bonjour soleil (Gras), (b) Le temps des roses (de Fontenailles), (c) Ivresse d'Oiseau (Dansy). Andante and Allegro from "Roma" (Bizet). Basque Rhapsody (Pierné). Scherzo varié (Fauchey). Tango from "Katinka" (Lajtai). Selection, "Etienne Marcel" (Saint-Saëns). Torre Bermeja (Albéniz). March (Ketelbey). 10.30—News.

2.0—Markets; Exchange. 2.10—Talk for Women. 2.20—For Children. 2.45—Talk: Unknown East Prussian Writers. 3.0—See Cologne. 5.0—Talk: East Prussia in Historical Narrative. 5.15—Markets. 5.20—Georg Jaecke (Organ). Passamezzo and Fugue in G minor (J. N. David). Four Pieces (Reger). 5.45—Topical Report. 6.0—Weather; Local News. 6.15—Talk. 6.30—For Ex-Servicemen. 7.0—News. 7.10—See Munich. 9.0—News. 9.20-11.0—Light Music and Dance Music. Station Orchestra. Conductor: Wilcken; Erich Börschel Dance Band.

LYONS (LA DOUA) (France)

648 kc/s (463 m.); 90 kW. Transmits at intervals from 6.50 a.m. 8.0 p.m.—Talks. 8.30—Literary Programme. 10.30—News. 10.45—See Paris (PTT).

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. 11.0 a.m.—Announcements. 11.5 (approx.)—Radio Orchestra. Conductor: Herschel. Overture, "Die Fledermaus" (Strauss). Czardas, Cello que j'aime (Gabriel-Marie). Hymn to the Sun (Rimsky-Korsakov). Songs my Mother taught me (Dvořák). Spanish Waltz, Tortajada (Morena). 11.29—Announcements. 11.33—Records. 11.55—News. 12.5 p.m.—Records. 12.45-1.0—Chess Lesson. 3.30—Lili Krauss (Pfte.) and Simon Goldberg (Violin). Sonata in E flat (Mozart). Sonata in G (Beethoven). 4.15—Act 4, "Rigoletto"—Opera (Verdi). 4.45-4.57—Jazz Records. 6.0—Records. In the interval at 6.15: Weekly Review. 6.45—News. 7.0—A Folk Play in Three Scenes. In the intervals: Records. 8.10—Radio Orchestra. Conductor: Casella. Nada (Flute). Flute Concerto (Vivaldi). Overture, "Le trame deluse" (Cimarosa). Flute Concerto in D (Mozart). 9.0-10.0—Weather; Records.

MOSCOW (No. 1) (Russia)

174 kc/s (1,724 m.); 500 kW. Transmits at intervals from 2.40 a.m. 8.0 a.m.—Concert. 9.0—News. 9.15—Concert. 10.15—Literary Programme. 11.0—Concert. 2.15 p.m.—For Children. 3.0—News. 3.13—Records. 5.20—Station Trio. 6.30—German Music by Bakman-Stecherina (Pfte.) and Tchekine (Tenor). 7.0—Variety. 8.0—Weekly Review and Questions and Answers (in German). 8.55—Chimes. 9.5—Weekly Reviews and Sports (in French). 10.0—Swedish Programme: Reminiscences of an Old Bolshevik; Questions and Answers.

MUNICH (Germany)

740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.). 5.0 a.m.—Motto; Gym. 5.30—See Breslau. 6.0—News. 6.10—Orchestra. 7.0—Gym. 7.20-7.40—For Housewives. 8.40-9.15—Announcements. 10.0—For Country People Markets; Orchestra; News. 11.0—See Stuttgart. In the interval at 12.00 noon: News. 1.0—News; Programme Notes. 1.10—Weekly Sports Report. 1.20—Talk for Girls. 1.45—Chess Lesson. 2.15—Amende and Saalfeld Songs by Maria Kaupper (Soprano) and Richard Staab (Pfte.) (on Records). 2.30—Reading (Josef Sauer). 2.50—Weather; Markets. 3.0—See Cologne. 5.0—Wolf Justin Hartmann reads his story "Zähne". 5.20—Legal Talk. 5.40—Preludes and Fugues from the Wohltemperiertes Klavier (Bach) by Pauline Freiss. 5.50—Topical Talk. 6.0—Call of Youth. 6.5—Lore Fischer (Contralto); August Leopolder (Pfte.). Pfte.: Jagdsong (Mozart). Song Cycle, Frauenleben und -leben (Schumann). Pfte.: Toccata (Schumann). 7.0—News. 7.10—"Good Fare"—A Musical Treat from Old and New Recipes arr. Althaus. Music by Ludwig Kudsche. Station Orchestra and Soloists. Conductor: Kloss. 9.0—News. 9.20—To be announced. 10.0-11.0—Station Dance Band.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 776 kc/s (386.6 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 Trandelag, 629 kc/s (476.9 m.). Transmits at intervals from 10.30 a.m. 4.0 p.m.—Concert. 4.30—For Children. 5.35—Economics. 5.55—News. 6.0—Announcements. 6.15—News. 6.30—Talk. 7.0—Station Orchestra. Conductor: Kramm. Polonaise (Tchaikovsky); Invitation to the Waltz (Weber). Quadrille (Sullivan). The Blue Danube (Strauss). 7.30-12.0 m't—Christmas Ball for Swedes and Norwegians. In the Interval at 8.40: News, and at 9.0: Topical Talk.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 20 kW. 8.0-8.30 a.m.—Press Review. 1.0 p.m. Exchange. 1.15—News. 1.30—Tourist Report. 1.40—International Labour Bureau Report. 1.50—Economics Report. 2.0—Economic Notes; For Women. 2.10—Maritime and Colonial Report. 2.20—Exchange. 2.30—André Delmon Jazz Band. 3.0—Christmas Message by His Eminence Cardinal Verdier. 3.45—Exchange. 4.0—Talk. 4.10—Exchange. 4.20—Talk: Famous Actors. 4.30—Educational Talk. 5.0—Records. 5.15—Poulet Concert from the Salle Rameau. Conductor: Gertrude Herdiczka. Mme. Héralte-Harlé (Songs). Gretchaninov (Pfte.). Russian Music. [Symphony in C minor (Scriabin). Three Songs (Gretchaninov). Kikimora (Liadov). Baba Yaga (Liadov). Three Songs (Gretchaninov), accompanied by the Composer. Easter Overture (Rimsky-Korsakov). 7.15—News. 7.25—International Affairs. 7.45—Theatre Talk. 8.0—Home Affairs. 8.30—Talk by M. René Doumic, Secretary of the Académie Française. 8.45-10.30—"The School for Scandal"—Play (Sheridan) (trans. by Paul Castan).

PARIS (Paste Parisien) (France)

959 kc/s (312.8 m.); 60 kW. 7.10 a.m.—Fanfare; Records. In the intervals at 7.30 and 8.30: Press Review; News. 8.55—Cookery. 12.0 noon—Exchange. 12.5 p.m.—Records. 12.25—Interview. 12.35—Station Orchestra. Pasodoble, Feu du midi (Gronostay). Waltz Potpourri (Freudenthal). Piece (Armandola). Overture, A May Day (Haydn-Nowak). Excerpts, Bouton d'or (Pierné). Excerpts, "The Tuppenny Ha'penny Opera" (Weill). Little Dutch Clock (Myers). Potpourri of Foxtrots (Salabert). March, In Town Tonight (Coates). In the interval at 1.15: Exchange. 2.0-2.30—For Girls. 3.15, 3.45, 4.35 and 6.15—Exchange. 6.20—Roman Catholic Address. 6.40—Talk. 6.47—Foreign Press Review. 7.2—Sports. 7.6—Fashions. 7.11—News. 7.25—Amusements. 7.28—Topical Talk. 7.35—Talk. 7.40—Film Music. 7.55—Records. 8.20—Light Music. 8.35—Programme with Georgius. 9.10—Lewiz Jazz Band. 9.35—News. 10.30-11.30—Records; Light Music.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. 6.50 a.m.—Weather. 7.0—News. 7.40—Press Review. 8.0—News. 8.40—Air Ministry Report. 9.0—News. 9.40—Review by Divoire. 11.0—Concert from Toulouse (PTT). 12.0 noon—Tourist Report. 12.15 p.m.—Concert from Marseilles (PTT). In the interval at 1.0: Exchange, News. 2.0—Talk: The Naval Conference in London. 2.10—Medical Talk. 2.20—Talk: The 1937 Exhibition. 2.25—Art Review. 2.30—Song Programme by Mmes. Bertho Delny, Renée Dyane, and Lella. MM. Duffeue, Paul Dulac, René Lobert. Melody and Kami (Songs to the Guitar). In the interval: Report on the Women's Radio Championship. 4.0—Literary Talk. 4.20—Talk—French Writers and Austria. 4.30—Variety. 6.30—News; Topical. 7.30—Weather. 7.38—Mme. Paulin-Visciano, Dierdy and Max Stern, in a recital of their unpublished music. Jeanine Micohe (Songs) and Chardon (Pfte.). 8.0—Literary Talk. 8.10—Film Review. 8.20—Legal Talk. 8.30—"La Casuerie des Jeunets"—Review (Rivedoux and Dumont), by the Authors. Maurice, Mme. Yvonne Guillet, Colette Serval and Jeanne Sourzac. Review in the interval. 10.30—News. 10.45—Dance Music. Conductor: Pierre Mangeret.

PARIS (Radio-Cité) (France)

1,068 kc/s (280.9 m.); 0.8 kW. Transmits at intervals from 7.0 a.m. 12.0 noon—Song Records. 12.15 p.m.—News. 12.30—Song Records. 12.45—Edi and Jan. 1.0—Records. 1.15—Light Music. 1.30—Wireless Notes. 1.45-2.0—Dance Records. 7.0—News. 7.15—Topical. 7.45—Records. 8.0—Jamblan and Bach and Laverne. 8.15—Talk. 8.30—Records. 8.45—Soloists. 9.0—Records. 9.15—Talk from America. 10.0—News. 10.15—Records: Brandenburg Concerto (Bach), by the Berlin Philharmonic Orchestra. 11.0—Relay from the Boléro. 12.0 m.—News. 12.15-12.30 a.m. (Sunday)—Relay from the Boléro.

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW. 6.45 a.m.—Gym. 7.0—Dance Records. 7.15—Press Review. 7.45—Gym. 8.0—Song and Saxophone Records. 11.0—Light Music. Conductor: Jean Morel. 12.0 noon—Talk for Farmers. 12.15 p.m.—Light Music. Conductor: Morel. Tirmont (Songs). In the interval at 12.45 p.m.: News and Review. 2.0—Reading (Anatole France). 2.30—Records: Music at the Court of Versailles. Triomphe de l'amour (Lully). Prelude, "Alceste" (Gluck). March, "Thésée" (Lully). Song, Revenez amours, revenez Gavotte (Lully). Musette and Tambourin (Rameau). Le coucou (Daquin). Minuet and Passepied (Rameau). 3.0—"After Christmas"—Sketch for Children. 4.0—Victor Pascal Orchestra. Au bruit des castagnettes (Alex). Kaiserwalzer (Strauss). Cockchafers' Tea-party (Noack). The Roses' Farewell (Openshaw). Marche lorraine (Ganne). Valsons, mon amour (Minor). Intermezzo. Pumpernickel (Siede). Carmela (de Curtis). Amiesenparade (Rathke). Une nuit près de toi (Rinaldoinaldi). Hot Gavotte (Warms). Pasodoble. Poignée de roses (Chapi). 5.0—Economic Review. 5.15—Talk: The Colonies—New Caledonia. 5.30—Saint-Saëns Records. Selection, "La princesse jaune." Havanaise. Song, Le bonheur est chose légère. Reverie du soir. 6.0—Art Talk and Review. 6.30—Records: Serenades. Serenata (Moszkowski). Sérénade du Passant (Massenet). Sérénade (Boulangier). Sérénade, "Les Millions d'Arlequin" (Drigo). Sérénade lointaine (Zacharias). Parais à ta fenêtre (Grieg). Sérénade (Grünfeld). Sérénade (Rachmaninov). Part II. Love Songs. 7.30—Lecture-Recital: Old Operetta Music. 7.50—Reading. 8.0—Jacques Féline Concert by Mme. Nopara (Pfte.), Max Moutia (Tenor) and the Composer (Flute). Pfte. Solos: (a) Buresque, (b) Tendre, (c) Gai. Songs: (a) Les nuits, (b) Les courlis dans les roseaux. Sérénade for Flute and Pfte. Songs: (a) Rayon de lune, (b) Ici bas. Pfte. Solos: (a) Badinerie, (b) Caravanes. 8.30—Press Review.

8.45—Concert Version, "Esclarmonde"—Opera in Four Acts (Massenet). Choir and Orchestra—Conductor: Bigot. Cast: Mme. Ritter-Clampi, Mme. Renée Gilly, MM. Arnould, Froumerty, Cambon and Cathelat. 10.45—Dance Music by the Adison Band. 11.15-12.15 a.m. (Sunday)—Light Music by the Adison Band.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. 5.15-6.30 a.m.—Chimes; Gym; Music; News. 8.30—An Appeal—Wireless for All. 8.35—Police Messages. 8.45—See Bratislava. 8.50—News. 9.5—News (German). 9.10—Water Level. 9.11-9.15—Record. 9.50—For Women. 10.0—Record and Military Band from Moravská-Ostrava. 10.55—For Farmers. 11.0—For Farmers. 11.10—Water Level. 11.11—Records. 11.25—News. 11.35-12.0 noon—Orchestra from Kosice. 12.30 p.m.—Industrial Programme. 12.40—Records. 12.50—Exchange. 12.55-1.0—Exchange and Weather (German). 2.0—See Bratislava. 3.0—Weather. 3.5—Records. 3.50—For Children. 4.15—Talk. 4.25—Records. 4.35—For Farmers. 4.45—For Workers. 4.55—German Transmission. Reading; Camillo Horn Recital by Anni Gatter (Pfte.) and Erna Hassler (Songs). 5.45—News (German). 5.55—Records. 6.0—News: Political and Economic Review. 6.15—See Brno. 7.0—Moravian Teachers' Choir from the Smetana Hall. Confession (Blazek). Moravian Folk Song (Vach). Slovak Folk Song (Suk). Autumn Song (Ostrcil). Song (Krizkowsky). 7.30—See Bratislava. 7.55 Act II, "In that Green Meadow"—Operetta (Benes) from the Tyl Theatre. 9.15—News: Sports. 9.30—Records. 9.45-10.30—Dvorsky Dance Band.

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW. 7.0 a.m.—Records; News. 8.0—Records. In the interval at 8.15: Time. 8.30—Light Music. 8.45—Records. 9.0—Time. 9.1—Popular Music. 9.15—Dance Music. 9.30—For Mothers and Children. 9.45—Waltzes. 10.0-3.30 p.m.—Variety. 3.30—Light Music. 4.0—Tea-Time Hour. 4.45—Children's Corner. 5.0—Time; Dance Music. 5.15—Opera Music. 5.30—Orchestra. 6.0—For Children. 6.45—News. 7.0-12.0 m.—Variety. In the intervals: News. 12.0 m.—Vaudeville and Dance Music (Records). In the interval at 12.30 a.m. (Sunday): Time. 1.0-2.0 a.m.—Dance Music.

ROME (Italy)

713 kc/s (420.8 m.); 50 kW. Relayed by Naples, 1,104 kc/s (271.7 m.); Bari (No. 1), 1,052 kc/s (283.3 m.); Bari (No. 2), Milan (No. 2), and Turin (No. 2), 1,357 kc/s (221.1 m.). Transmits at intervals from 6.45 a.m. 12.15—Cigany Music. Conductor: Petralia. The Grape Festival in Tokaj (Por). Hungarian Autumn Songs (Kaesck). Hungarian Festival (Dohnányi). Sunday Morning in a Hungarian Village (Szirmai). 12.50 p.m.—News. 1.0—Tourist Report; Exchange. 1.15-2.0—Mediterranean Programme. 3.30—For Children. 3.45—Relay from Asmara. 4.0—News. 4.15—Madami Quartet. 4.55—Weather. 5.0—Markets; Lottery Results. 5.10 Rural Programme. 5.45—Announcements; Sports. 6.0—Tourist Talk in Esperanto. 6.20—News in English. 6.44—News in French. 7.5—News; Lottery Results. 7.30—Symphony Concert. Conductor: Selvaggi. Song for Oboe and Strings (Zipoli-Selvaggi). Symphony in F—the Pastoral (Beethoven). Prelude to Messa Antoniana (Selvaggi). Six Humorous Pieces (Selvaggi). Overture, "Semiramide" (Rossini). Talk in the interval: News after the Concert. 9.0—Dance Music. 9.30—News.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 25 kW. Relayed by Geneva, 401 kc/s (745 m.). 11.29 a.m.—Time; News. 11.40-1.0 p.m.—Request Records. 3.30—Programme for Children. 5.0—Chimes from Lausanne Cathedral. 5.10—Folk Music Records. 5.30—Book Review. 5.50—Dances and Songs. 6.55—Lecture-Recital: Organ

Music from the Sixteenth Century to the Present Day. 7.20—Christmas Carols by Motet and Madrigal Choir. Conductor: Opjenski. Hodie, Hodie (Sweetlink). Noël joyeux (Costeley). Gross and Herr (Praetorius). Lobt Gott (Praetorius). Ein Kindelein (Schröter). Organ Interlude. Le petit Jésus (arr. Gevaert). Entre le boeuf (arr. Doret). Alsatian Carol (arr. Doret). In the Shadows of the Night (arr. Barbian). Dormi, dormi, bel bambin (arr. Barbian). Organ Interlude. Polish Carols: (a) The Angel to the Shepherds, (b) God is born (arr. Pienski), (c) The Shepherds (arr. Niewiadomski), (d) Cradle Song (arr. Niewiadomski). 8.5—News. 8.15—Joseph and Johann Strauss Concert. Radio Suisse Romande Orchestra. Conductor: Haug. Overture, "The Gipsy Baron" (Strauss). Delirienwalzer (Strauss). Tales from the Vienna Woods (Strauss). Waltz, Künstlerleben (Strauss). Waltz, Transaktionen (Strauss). Waltz, The Blue Danube (Strauss). 9.15—Dance Music from the Montbenon Casino, Lausanne.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Relayed by Motala, 216 kc/s (1,389 m.); Göteborg, 941 kc/s (318.8 m.); Hörby, 1,131 kc/s (265.3 m.); and Boden, 392 kc/s (765 m.). Transmits at intervals from 6.20 a.m. 1.0 p.m.—Vocal and Instrumental from Östersund. Prelude, Sarabande and Gavotte (Debussy). Romance (Joachim). Gavotte (Moffat). Waltz (Hegar). Stjärnöga (Stenhammar). Dig elsker jeg (Grieg). Det förste Møde (Grieg). Flute. Pfte. Pieces (Peterson-Berger): (a) Akallan, (b) Lyckorunor, (c) Nachspiel. 2.0—For Children. 2.30 (from Göteborg)—Asti Orchestra. 3.30—Talk. 4.5—Pfte. Quintet in C (Atterberg) by Haquinus (Pfte.) and the Barkel Quartet. 4.35—Sketch. 5.0—Records. 6.0—Report. 6.15—News. 6.30—Cabaret. 7.30—Anita Harrison and Witkowsky (Pftes.). Beethoven Variations (Saint-Saëns). Waltzes (Kirchner). Invitation to the Dance (Weber-Corden). 8.0—Light Music. 8.45—News. 9.0-11.0—Bingang Orchestra. In the interval, Dance Records.

STRASBOURG (France)

859 kc/s (349.2 m.); 120 kW. Transmits at intervals from 6.45 a.m. 11.0—Concert from Toulouse (PTT). 12.0 noon—Weather. 12.5 p.m.—Records. Overture, "Light Cavalry" (Suppé). Two Pieces (Rathke). Neapolitan Song, Reginnella (Lama). Blonde amie (Carcel). Minuet (Paderewski). Spanish Serenade (Glazunov). Un mot, rien qu'un mot tendre (Bos). Bye-Bye (Richepin). Waltz, Flattergeister (Strauss). Wiener Praterleben (Translatour). Love Serenade (Waldau). Butterflies (Steinke). American Patrol (Meacham). 12.45 p.m.—News. 1.0—Records. Liszt Potpourri (Urbach). Selection, "Ronny" (Kálmán). Pieces (Berville): (a) Le Moulin qui jase, (b) Le Bonheur, (c) Souvenirs de Lecocq. Humoresque (Dvořák). The Blue Danube (Strauss). Pieces (Lecuona): (a) Maria my own, (b) Siboney. Japanese Lantern Dance (Yoshiotomo). Chinese Serenade (Siede). Fête arabe (Luigini). Valse militaire (Maton). 2.20—Markets. 2.30—See Paris (PTT). 3.45—Exchange. 5.0—For Farmers. 5.15—See Paris (Eiffel Tower). 7.15—French Lesson. 7.30—News. 7.45—News (German). 8.10—Sports. 8.45—See Paris (Radio-Paris). 10.30—Dance Music from the Caveau de l'Aubette.

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. 5.0 a.m.—Hymn; Motto. 5.5—Gym. 5.30-7.0—See Breslau. 7.0—Weather; Gym. 7.45-8.15—Concert. 10.0—"The Labourer in Town and Country"—Sequence. 11.0—Operetta Concert from Heidelberg. Heidelberg Municipal Orchestra. Choir and Soloists. Conductors: Heime and Kramer. Excerpts, "Die Vielgeliebte" (Dostal), "The Geisha" (Jones), and "Schach dem König" (Goetze). 12.0 noon—News. 12.15 p.m.—Operetta Concert (contd.). Overture, "The Land of Smiles" (Lehár). Duet, "Der Obersteiger" (Zeller). Sailor Song, "Liebe auf

Reisen" (Platen). Duet, "Wild Violets" (Stolz). Overture, "The Gipsy Baron" (Strauss). Duet, "The Czarevitch" (Lehár). Chorus, "The Gipsy Baron" (Strauss). 1.0—See Deutschlandsender. 2.0—For Hitler Youth. 3.0—See Cologne. 5.0—Weekly Sound News. 5.30—"D'Malefizkuah"—A Tragic Comedy (Torwald). 6.0 (from Karlsruhe)—Variety. 7.0—News. 7.10—See Cologne. 9.0—Ncws. 9.30—See Leipzig. 10.0—See Deutschlandsender. 11.0-1.0 a.m. (Sunday)—Records. Trio for Pfte., Violin and Cello (Sixt). Songs (Sixt). String Quartet (Haydn). Four Pfte. Pieces (Chopin). Symphony No. 3 (Brahms).

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 6.0 p.m.—Exchange. 6.5—Orchestra. 6.15—Sound-Film Music. 6.30—Orchestra. 6.45—News. 6.50—Operetta Airs from (a) "La poupponnière" (Verdun), (b) "Mam'zelle Nitouche" (Hervé), (c) "Miss Decima" (Audran), (d) "Un soir de réveilton" (Moretti). 7.5—Orchestra. 7.27—Hungarian Romance (Cosai) by a Cigany Band. 7.30—News. 7.45—Concert. Glow-worm Idyll (Siede). Chorus, "Carmen" (Bizet). Aria, "La belle Hélène" (Offenbach). L'anneau d'argent (Chaminade). 8.15—Viennese Orchestra. 8.30—Songs. L'amour de ma mie (Bosc). Le temps des cerises (Renard). Le crédo du paysan (Goublier). Berceuse de Jocelyn (Gardard). 8.50—Marches. 9.0—Concert Version: "Moineau"—Operetta (Beydts). 9.35—Orchestra. Valse des fleurs (Tchaikovsky). Fugue (Berners). 9.45—"Au joyeux moulin"—Music-Hall. 10.20—Opera Arias from (a) "Cavalleria rusticana" (Mascagni), (b) "Romeo and Juliet" (Gounod), (c) "Rigoletto" (Verdi). 10.30—News. 10.45—Argentine Band. 11.0—Light Music. 11.15—Chan-



An artist's conception of broadcast opera

sonnettes. 11.30—Dance Band from the Blue Pavilion. 11.45—Operetta Airs from (a) "Les noces de Jeannette" (Masse), (b) "The Bayadère" (Kálmán), (c) "Le printemps chante" (Mauprey), (d) "Jean V" (Yvain). 12.0 m.—Light Music. 12.15 a.m. (Sunday)—News. 12.20-12.30—Marches.

TURIN (No. 1) (Italy)

1,140 kc/s (263.2 m.); 7 kW. Relayed by Milan (No. 1), 814 kc/s (368.6 m.); Genoa, 986 kc/s (304.3 m.); Florence, 610 kc/s (491.8 m.); Trieste, 1,222 kc/s (245.5 m.); and Bolzano, 536 kc/s (559.7 m.). 6.45 a.m.—Gym. 7.0-7.15—News. 10.30—Ferruzzi Orchestra. In the Woods (Galaverni). Così (Marf). Aurora pallida (Cusina). No, non chiamarmi così (Emoli). Ave Maria (Schubert). Suite goliardica (Amadei). Ci siamo volut bene, ma (Zagari-Marf-Mascheroni). Under the rays of the moon (Roland-Chiappo).

SATURDAY (December 28)

p.m.—Mottarello in Search of an Author. 12.50—News. 1.0—Tourist Report; Exchange. 3.30—For Children. 3.45—Relay from Asmara. 4.0—News. 4.15—Dance Music. 4.55—Weather. 5.0—Markets Lottery Results. 5.10—For Women. 5.45—Announcements; Sports. 6.0—News in Foreign Languages. 7.5—News; Lottery Results. 7.15—"Lohengrin"—Opera (Wagner) from La Scala, Milan. In the intervals: Book Review and Talk. News in Italian and Spanish after the Opera.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Relayed by Graz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Dornbirn, Klagenfurt, Linz and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.). Transmits at intervals from 6.0 a.m. 11.0—Orchestra. Conductor: Geiger. 12.0 noon—News. 12.10 p.m.—Orchestra (contd.). 1.0—Records of the Wiener Schubertbund. Psalm 23 (Schubert). Weihnachtsliedchen (Keldorfer). Mein Heimatland (Keldorfer). Die Nacht (Schubert). Der Tanz (Schubert-Keldorfer). 1.30—Announcements. 2.0—Weather; Exchange. 2.15—Mandoline Band Conductor: Scholz. Overture, "Joseph in Egypt" (Méhul). Auf dem Amazonas (Scholz). Intermezzo (Scholz). Dance of the Bayadères (Siengel). Entr'acte Music (Bahlmann). Christ-kindigavotte (Hummel). Waltz, Hercinspaziert (Ziehner). Gallop, Wiener Schlittage (Bayer). Peasant Dances (Matzka). 3.0—News; Exchange. 3.5—Talk in Italian. 3.30—Konrad Wilczek and Eduard Gimoeel read. 4.0—Music Talk with Records. 5.0—Folk Songs from the Konzert haussaal. 5.30—Monthly Review. 6.0—News. 6.10—"Das Spitzentuch der Königin"—Operetta (Strauss). 8.35—Film Review. 9.0 (approx.)—News. 9.10—Lubka Kolessa (Pfte.). Introduction, Largo and Fugue (Vivaldi). Romance in A flat (Mozart). Variations on a Giuck Theme (Mozart). Four Mazurkas (Chopin). Polonaise in G sharp minor (Chopin). Ukrainian Miniatures (Barwyski). 9.50—News. 10.5-12.0 m.—Jazz Band.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Relayed by Cracow, 1,022 kc/s (293.5 m.); Katowice, 758 kc/s (395.8 m.); Łódź, 1,339 kc/s (224 m.); Lwów, 795 kc/s (377.4 m.); Poznań, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.). 5.30 a.m.—Hymn. 5.33—Gym. 5.50—Records. In the interval at 6.20: News. 6.50-7.0—Announcements. 10.57—Time. 11.0—Fanfare. 11.3—News. 11.15—Station Orchestra. Conductor: Nawrot. Overture, "Die Fledermaus" (Strauss). Suite, "Sylvia" (Delibes). Wiener Blut (Strauss). Spanish Dances (Moszkowski). Czardas, "Der Geist der Wojewoden" (Grossmann). 12.25-12.30 p.m.—For Housewives. 1.30—Adamska-Grossman Quintet. Selection, "The Geisha" (Jones). The Butterfly and the Rose (Nevin). Piece (Benatzky). Barcarolle (Gall). 2.0—Humorous Sketch. 2.15—Shipping. 2.20—Exchange. 2.30—Records. 3.0—French Lesson. 3.15—Lisowski Balalaika Trio. Gavotte, "Lysistrata" (Lincke). Reverie, "Mazurka (Wieniawski). Gallop. 3.30—Technical Letter-box. 3.45—Songs. 4.0 (from Łódź)—Talk. 4.15—New Records. 4.45 (from Poznań)—Talk: The Eagle. 4.50—Talk: Polish Towns and Villages. 5.0—For Children. 5.30—Literary Review. 5.40—Topical Talk. 5.45—Announcements. 5.55—Reading. 6.50—Announcements. 6.35—Sports. 6.50—Topical. 7.0 (from Lwów)—Popular Music. 7.45—News. 7.55—Talk: Poland To-day. 8.0—For Poles abroad. 8.45 (from Poznań)—Variety. 9.15—Station Orchestra. Conductor: Oziminski. Frydberg (Violin). Overture, "Der Freischütz" (Weber). Violin: (a) The Lark (Glinka-Auer), (b) Perpetuum mobile. Excerpts, "King Christian II" (Sibelius). Violin Suite in A minor (Sinding). 10.0—Weather. 10.5—Dance Music: Station Orchestra. Conductor: Górzynski.

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

Corrected in accordance with the latest official information available at the time of going to press

kc/s	m.	kW.	Station	Dial Reading	kc/s	m.	kW.	Station	Dial Reading
155	1935	7	Kaunas (Lithuania)		977	307.1	1	BELFAST (N. Ireland)	
		100	Hilversum I (Holland) (Transmits K.R.O. and N.C.R.V. Programmes) (Power 10 kW only until 2.40 p.m. G.M.T.)		985	304.3	10	Genoa (Italy)	
160	1875	150	Brasov (Romania) (Testing)		995	301.5	24	Torun (Poland)	
166	1807	40	Lahti (Finland)					Hilversum II (Holland) (Transmits A.V.R.O. and V.A.R.A. Programmes) (15 kW only, until 2.40 p.m. G.M.T.)	
174	1724	500	Moscow I (U.S.S.R.)		1004	298.8	13.5	Bratislava (Czechoslovakia)	
182	1648	80	Radio-Paris (France)		1013	296.2	50	MIDLAND REGIONAL (Gt. Britain)	
187.5	1600	5	Istanbul (Turkey)				5	Chernigov (U.S.S.R.)	
191	1571	60	Deutschlandsender (Germany)		1022	293.5	3	Barcelona EAJ15 (Spain)	
200	1500	150	DROITWICH (Gt. Britain)				2	Cracow (Poland)	
		35	Jrkoutsk (U.S.S.R.)				0.7	Oviedo (Spain)	
208	1442	35	Minsk (U.S.S.R.)		1031	291	100	Heilsberg (Königsberg) (Germany)	
216	1389	150	Motala (Sweden)				5	Paredo (Portugal)	
217.5	1379	100	Novosibirsk (U.S.S.R.)		1040	288.5	10	Leningrad II (U.S.S.R.)	
224	1339	120	Warsaw I (Poland)		1050	285.7	40	Rennes-Bretagne (France)	
		150	Luxembourg		1059	283.3	50	SCOTTISH NATIONAL (Gt. Britain)	
230	1304	7	Ankara (Turkey)				20	Bari I (Italy)	
232	1293	20	Kharkov I (U.S.S.R.)		1068	280.9	0.8	Radio-Cité (Paris) (France)	
238	1261	60	Kalundborg (Denmark)				4	Tiraspol (U.S.S.R.)	
240	1250	0.5	Vienna Experimental (Austria)		1077	278.6	3	Bordeaux-Lafayette (France)	
245	1224	100	Leningrad I (U.S.S.R.)		1086	276.2	2	Falun (Sweden)	
253	1186	0.1	Tromsø (Norway)				0.7	Zagreb (Yugoslavia)	
256.4	1170	25	Tashkent (U.S.S.R.)		1095	274	10	Madrid EAJ7 (Spain)	
260	1153.8	60	Oslo (Norway)				10	Vinnitsa (U.S.S.R.)	
271	1107	109	Moscow II (U.S.S.R.)		1104	271.7	1.5	Naples (Italy)	
280	1071.4	35	Tiflis (U.S.S.R.)				50	Madona (Latvia)	
					1113	269.5	11.2	Moravska-Ostrava (Czechoslovakia)	
							5	Radio-Normandie (Fécamp) (France)	
					1122	267.4	1	NEWCASTLE (Gt. Britain)	
							0.25	Alexandria I (Egypt)	
355	845.1	10	Finmark (Norway)		1131	265.3	10	Hörby (Sweden)	
359.5	834.5	20	Rostov-on-Don (U.S.S.R.)		1140	263.2	7	Turin I (Italy)	
375	800	50	Budapest II (Hungary)				20	LONDON NATIONAL (Gt. Britain)	
392	765	0.6	Sverdlovsk (U.S.S.R.)		1149	261.1	20	NORTH NATIONAL (Gt. Britain)	
		30	Boden (Sweden)				20	WEST NATIONAL (Gt. Britain)	
401	748	1.3	Banska Bystrica (Czechoslovakia) (Testing) (Power 15 kW after 5 p.m.)		1158	259.1	2.6	Kosice (Czechoslovakia)	
		100	Geneva (Switzerland)		1167	257.1	15	Monte Ceneri (Switzerland)	
413.5	726	0.6	Moscow III (U.S.S.R.)		1176	255.1	10	Copenhagen (Denmark)	
		10	Östersund (Sweden)				10	Kharkov II (U.S.S.R.)	
431	696	1.2	Voronezh (U.S.S.R.)		1185	253.2	60	Nice-Corse (France) (Testing)	
436	688	10	Oulu (Uleaborg) (Finland)				0.5	Cassel (Germany)	
			Ufa (U.S.S.R.)				2	Coblentz (Germany)	
					1195	251	25	Frankfurt (Germany)	
							5	Freiburg-im-Breisgau (Germany)	
517	580	0.5	Tartu (Estonia)				0.5	Kaiserslautern (Germany)	
519	578	0.7	Innsbruck (Austria)		1204	249.2	5	Trier (Germany)	
527	569.3	5	Hamar (Norway)		1213	247.3	60	Prague II (Czechoslovakia)	
		10	Ljubljana (Yugoslavia)		1222	245.4	10	Lille (Radio PTT Nord) (France)	
536	559.7	1	Viipuri (Finland)				0.3	Trieste (Italy)	
546	549.5	16	Bolzano (Italy)		1231	243.7	5	Narvik (Norway)	
556	539.6	100	Wilno (Poland)		1240	241.9	1	Gleiwitz (Germany)	
565	531	60	Budapest I (Hungary)		1249	240.2	0.8	Cork (Irish Free State)	
		4	Beromünster (Switzerland)				0.7	Radio Côte d'Azur (France)	
574	522.6	100	Athlone (Irish Free State)		1259	238.5	10	Saarbrücken	
583	514.6	15	Palermo (Italy)				1	Kuldiga (Latvia)	
592	506.8	15	Stuttgart (Germany) (2 kW only until 3 p.m. G.M.T.)		1267	236.8	1	Rome III (Italy)	
601	499.2	25	Riga (Latvia)		1276	235.1	0.5	San Sebastian EAJ8 (Spain)	
610	491.8	10	Grenoble (France)				2	Nürnberg (Germany)	
620	483.9	15	Vienna (Austria)		1285	233.5	1	Christiansand (Norway)	
629	476.9	20	Rabat (Morocco)				0.25	Stavanger (Norway)	
638	470.2	120	Sundsvall (Sweden)		1294	231.8	0.5	ABERDEEN (Gt. Britain)	
648	463	90	Florence (Italy)				0.5	Dresden (Germany)	
658	455.9	100	Brussels I (Belgium)		1303	230.2	0.5	Linz (Austria)	
668	449.1	50	Cairo I (Egypt)				4.2	Dornbirn (Austria)	
677	443.1	100	Trøndelag (Norway)		1312	228.7	0.25	Klagenfurt (Austria)	
686	437.3	2.5	Lisbon (Emissora Nacional) (Portugal)				0.25	Vorarlberg (Austria)	
695	431.7	120	Prague I (Czechoslovakia)		1321	227.1	1.25	Danzig (Danzig Free City)	
704	426.1	55	Lyons (La Doua) (France)				1.25	Karlstad (Sweden)	
713	420.8	50	Petrozavodsk (U.S.S.R.)		1330	225.6	2	Malmö (Sweden)	
722	415.5	36	Cologne (Germany)				2	Norrköping (Sweden)	
		3	NORTH REGIONAL (Gt. Britain)				2	Trollhättan (Sweden)	
		5.5	Sottens (Switzerland)				0.5	Magyaróvár (Hungary)	
731	410.4	1.6	Belgrade (Yugoslavia)		1339	224	0.8	Bremen (Germany)	
		20	Bodø (Norway)				2	Flensburg (Germany)	
740	405.4	100	Paris (PTT) (France)				0.5	Hanover (Germany)	
		1	Stockholm (Sweden)				2	Magdeburg (Germany)	
749	400.5	0.2	Rome I (Italy)				2	Stettin (Germany)	
		12	Kiev (U.S.S.R.)				0.8	Montpellier (PTT) (France)	
758	395.8	10	Madrid (Radio-España) (Spain)				2	Lódz (Poland)	
767	391.1	50	Seville (Spain)				0.5	Dublin (Irish Free State)	
776	386.6	2	Tallinn (Estonia)				0.5	Rjukan (Norway)	
		0.7	Munich (Germany)				0.7	Salzburg (Austria)	
785	382.2	120	Marseilles (PTT) (France) (Testing on 100 kW from 11 p.m.)				0.5	L'île de France (France)	
795	377.4	7.5	Pori (Finland)				0.5	Cairo II (Egypt)	
804	373.1	16	Sortavala (Finland)				2	Königsberg (Germany)	
814	368.6	50	Katowice (Poland)				0.15	Notodden (Norway)	
823	364.5	10	SCOTTISH REGIONAL (Gt. Britain)				4	Milan II (Italy)	
832	360.6	100	Stalino (U.S.S.R.)				0.2	Turin II (Italy)	
841	356.7	100	Toulouse (PTT) (France)				1	Bari II (Italy)	
		0.7	Fredrikstad (Norway)				0.5	Basle (Switzerland)	
		10	Leipzig (Germany)				0.5	Berne (Switzerland)	
		7.5	Barcelona EAJ11 (Spain)				25	Warsaw II (Poland)	
		16	Lwów (Poland)				0.3	Radio-Lyons (France)	
		50	WEST REGIONAL (Gt. Britain)				0.5	Radio-Midi (Beziers) (France)	
		12	Milan I (Italy)				0.5	Tampere (Finland)	
		100	Bucharest (Romania)				0.5	Alexandria II (Egypt)	
		100	Moscow IV (U.S.S.R.)				0.5	Turku (Finland)	
		100	Berlin (Germany)				1.25	Miskolc (Hungary)	
		0.35	Bergen (Norway)				20	Eiffel Tower (Paris) (France)	
		0.7	Aalesund (Norway)				1.25	Pees (Hungary)	
		1	Forsgrund (Norway)				0.1	Antwerp (Belgium)	
		3	Sofia (Bulgaria)				0.1	Courtrai (Belgium)	
		10	Valencia (Spain)				1	BOURNEMOUTH (Gt. Britain)	
		10	Simferopol (U.S.S.R.)				0.3	PLYMOUTH (Gt. Britain)	
		120	Strasbourg (France)				0.1	Binche (Belgium)	
		0.6	Asen (France)				0.1	Chatelineau (Belgium)	
		16	Poznan (Poland)				0.1	Wallonia (Belgium)	
		50	LONDON REGIONAL (Gt. Britain)				0.1	Nimes (France)	
		7	Graz (Austria)				0.2	Albacete (Spain)	
		10	Helsinki (Finland)				0.1	Radio-Alcoy (Spain)	
		0.5	Limoges (PTT) (France)				0.5	Santiago (Spain)	
		100	Hamburg (Germany)				0.1	Lige Experimental (Belgium)	
		10	Dnepropetrovsk (U.S.S.R.)				0.1	Radio-Comte (Belgium)	
		60	Toulouse (Radio-Toulouse) (France)				0.1	Wallonia (Belgium)	
		32	Brno (Czechoslovakia)				0.1	Seraing (Belgium)	
		15	Brussels II (Belgium)				0.1	Verviers (Belgium)	
		12	Algiers (North Africa)				0.25	Pietarsaari (Jacobstad) (Finland)	
		10	Göteborg (Sweden)				0.2	Radio-Alcala (Spain)	
		100	Göteborg (Germany)				0.2	Karlskrona (Sweden)	
		100	Poste Parisien (France)				0.1	Liepāja (Latvia)	
		30	Bordeaux-Sud-Ouest (France)						
		10	Odessa (U.S.S.R.)						
		2	Ukhta (U.S.S.R.)						
					1530	196			
					1737	173			

"They Asked Me How I Did It"

And I Gave Them The Scripture Text,
 You Keep Your Light So Shining
 A Little In Front O' The Next,
 They Copied All They Could Follow
 But They Couldn't Copy My Mind,
 And I Left Them Sweating And Stealing
 A Year And A Half Behind."

Kipling.



ARTHUR FERRIER

The Stuff to Give 'em!

There's a good drink coming when the syphon *says* . . .



★ **Schweppes Soda Water** is also sold in
Bottles—Large, Splits and Schweplets . . .